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8	NATURAL RESOURCES AGENCY	
9.	DEPARTMENT OF CONSERVATION	
10	DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES	
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13	THIRD AMENDED ORDER TO:	
14	STOP INJECTION,	
15	REMEDIATE PROJECT ISSUES, TAKE	
16		
17	PENALTY AND "LIFE-OF" BOND	
18		
19	NO. 1119C	
20	Dated: January 31, 2019	
21	Dateu. Januar y 31, 2017	
00		
22	Operator: HVI CAT CANYON, INC.	
22 23	Operator: HVI CAT CANYON, INC. (DBA: GREKA OIL & GAS; G3515)	
23	(DBA: GREKA OIL & GAS; G3515)	
23 24		
23 24 25	(DBA: GREKA OIL & GAS; G3515)	
23 24 25 26	(DBA: GREKA OIL & GAS; G3515)  BY  Kenneth A. Harris Jr.	
23 24 25	(DBA: GREKA OIL & GAS; G3515)  BY	

THIRD AMENDED ORDER TO: Stop Injection, Remediate Project Issues, Take Preventative Measures, and Impose a Civil Penalty and "Life-Of" Bond; NO.1119C

#### I. Introduction

The State Oil and Gas Supervisor (Supervisor), acting through the Division of Oil, Gas, and Geothermal Resources (Division) and under the authority of Division 3 of the Public Resources Code (PRC; commencing with PRC section 3000) and title 14 of the California Code of Regulations (Regulations), ensures, among other things, that an oil and gas operator timely performs the required injection well mechanical integrity tests, timely submits accurate injection well data, timely submits accurate Underground Injection Control (UIC) project data, and uses its injection wells at appropriate, approved pressures. These testing, reporting, and monitoring requirements are in accord with the Supervisor's authority in PRC section 3106 to prevent "damage to life, health, property, and natural resources" since they ensure that injection wells are not leaking pollutants into the air, water (including, primarily, underground sources of potential drinking water), or oil and gas deposits. The reporting requirements also address the water that certain wells extract during oil and gas production (since the unused water is usually placed back underground) as well as the water put into injection wells to help produce oil and gas. (See, PRC section 3227.)

Based on the Division's records, at all times relevant to this order, HVI Cat Canyon, Inc., dba Greka Oil & Gas (G3515) (Greka or Operator) was and is the oil and gas operator (as defined in **PRC section 3009**) who has the Division's approval to operate a subsurface injection project in the Richfield Oil Field (UIC Project No. 598-00-004 [Exhibit A, incorporated herein]). As such, Greka must comply with all laws applicable to such projects as well as the conditions of the controlling UIC project approval letter.

Greka's subject UIC project contains 54 wells approved for underground injection. Significantly, many of wells at issue in this Third Amended Order, as well as this UIC project facility, are in close proximity to sensitive receptors such as residential structures, schools, and parks, and also near water supply wells and groundwater recharge basins. Parque de los Ninos is convenient to the houses and apartment buildings in this neighborhood of Placentia,

<sup>&</sup>lt;sup>1</sup> Approximately 90% of the liquid extracted by an oil well is water. An injection well allows the operator to replace the water after the oil and gas are separated from it.

California. This city park has a softball field, picnic areas, playground equipment, basketball court, a swimming pool, and a community center likely to have family events. This city park also has one of the injection wells (ZW9) which Greka operates in the Richfield Oil Field (Field). This Field spans close to a square mile in Placentia, Yorba Linda, and Mira Loma and has wells that are close to schools, medical clinics, and houses.

This order addresses 46 wells where Greka failed to comply with the Division's statutes and regulations. (Exhibit B [Chart of wells indicating types of allegation, number of violations, and the specific penalty amounts accorded to each well], incorporated herein.) Although the Supervisor notified Greka of its failure to comply, Greka has not resolved all failures. Greka had filed more than a thousand monthly pressure reports over a 12-plus-year period that are deficient. Over time, Greka has failed to provide mechanical integrity test results, failed to install required meters and gauges on their wells, and violated a host of other requirements.

To protect the residents of Placentia, Yorba Linda, and Mira Loma, the Supervisor ordered Greka to "shut in" all project injection wells – that is, to stop all injections until Greka has corrected the deficient reports, submitted any missing reports, safety-tested its wells, installed proper gauges, and demonstrated that the wells can continue injecting without damage to life, health, property, and natural resources. The original remediation order (No. 1119) that the Supervisor served on December 13, 2017, included notice that civil penalties would be ordered (Exhibit C; incorporated herein; withdrawn as superseded by this and previous amended orders). Since then, Greka has admitted some of the allegations and attempted to correct some of the violations. However, reports are still missing and wells are still untested.

Fundamental legal requirements of the Division's continuing approval of the project require Greka to, among other things, maintain accurate project data and establish that no damage to life, health, property, or natural resources is occurring by reason of the project. (See **Regulations section 1724.10, subd. (h)**.) Failing to perform well integrity tests, deficient reporting of accurate and timely injection well data to the Division, and using injection wells at inappropriate pressures are all actions that run directly counter to the requirements of the permits

under which Greka operates. As such, based on the Division's records, including the Supervisor's Order No. 1119 and Greka's Answer to the Supervisor's Order No. 1119 allegations wherein Greka makes admissions to many of its alleged failures (Exhibit D, incorporated herein), and the allegations below, the Supervisor hereby orders Greka to stop all water injection until it remediates the identified project compliance issues for UIC Project No. 598-00-004.

In addition, within his discretion under PRC sections 3236.5 and 3270.4, and Regulations section 1722.8, the Supervisor considered the relevant mitigating and extenuating circumstances described below, including Greka's admissions and total violation history, and is imposing, at this time, a civil penalty of \$5,076,420 for violations which occurred in 2017, and a "life-of-production facility and well" bond in the amount of \$38,975,463.

Therefore, pursuant to PRC sections 3013, 3106, 3222, 3224, 3226, 3227, 3236.5 and, 3270.4, Regulations sections 1714, 1722, subdivisions (a) and (g), 1722.8, 1723.9, 1724.6, 1724.7, and 1724.10, and as set forth below, the Supervisor is ordering Greka to stop all injections approved under UIC Project No. 598-00-004 (as soon as it is safe to do so) and to address the items identified in Section XI below (Operator's Required Actions), which include paying the civil penalty of \$5,076,420 and filing an appropriate bond for \$38,975,463. Greka is also required to disconnect all injection wells per Regulations section 1777, subdivision (c)(4), unless otherwise directed by the Division.

## II. <u>Definitions</u>

**PRC section 3008, subdivision (a)**, defines "Well" to include "... any well drilled for the purpose of injecting fluids or gas for stimulating oil or gas recovery. .."

**PRC section 3009** defines "Operator" to mean "a person who, by virtue of ownership, or under the authority of a lease or any other agreement, has the right to drill, operate, maintain, or control a well or production facility."

**Regulations section 1760, subdivision (f)**, defines "Production facility" to mean any equipment attendant to oil and gas production or injection operations. . ."

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## III. State Oil and Gas Supervisor and Division Authority

PRC section 3013 states that the oil and gas law (Division 3 of the PRC, commencing with section 3000) "shall be liberally construed to meet its purposes" and grants the Supervisor "all powers" that may be necessary to carry out those purposes.

**PRC section 3106, subdivision (a),** authorizes the Supervisor to "supervise the drilling, operation, maintenance, and abandonment of wells and the operation, maintenance, and removal or abandonment of tanks and facilities attendant to oil and gas production ... so as to prevent, as far as possible, damage to life, health, property, and natural resources[.]"

**PRC** section 3222 states, in part, that the "operator of any well shall, at the request of the supervisor, demonstrate that water from any well is not penetrating oil-bearing or gas-bearing strata or that detrimental substances are not infiltrating into underground or surface water suitable for irrigation or domestic purposes."

**PRC section 3224** mandates that "The supervisor shall order such tests or remedial work as in his judgment are necessary to prevent damage to life, health, property, and natural resources. . ."

PRC section 3226 authorizes the Supervisor, based on the Supervisor's final or affirmed order, to appoint agents who may enter the well premises and perform necessary work if the operator did not complete the work as ordered. Any amount the Supervisor expends to complete the necessary work constitutes a lien against the operator's real or personal property according to PRC section 3423.

**PRC section 3236.5** authorizes the Supervisor to impose a civil penalty on a person who violates any provision in Chapter 1 of Division 3 of the PRC or any regulation that implements Chapter 1.

**PRC section 3270.4** authorizes the Supervisor to impose a "life-of-well or life-of-production facility bond" on "an operator with a history of violating this chapter or that has outstanding liabilities to the state associated with a well or production facility."

**Regulations section 1714,** requires "[w]ritten approval of the Supervisor . . . prior to . . . injection. . ."

**Regulations section 1722, subdivision (a)**, requires that Operator conduct all operations 'in accordance with good oilfield practice."

**Regulations section 1722, subdivision (g)**, demands that Division-approved operations "shall not deviate from the approved program without prior Division approval, except in an emergency."

**Regulations section 1722.8** addresses the factors the Supervisor considers when determining whether to order a life-of-well and/or a life-of-production facility bond and the factors to consider to establish the bond amount.

## IV. Operator Requirements for Continued Project Approval

PRC section 3227, subdivision (a)(4), requires an operator to report, among other things, "the amount of fluid or gas injected into each well used for enhanced recovery [of oil.]"

**Regulations section 1723.9** requires an operator to test idle wells and notify the appropriate Division district office so a Division inspector may witness the tests.

**Regulations section 1724.6** requires Division approval before any subsurface injection project can begin and that "[t]he operator requesting approval for such a project must provide the appropriate Division district deputy with any data that, in the judgment of the Supervisor, are pertinent and necessary for the proper evaluation of the proposed project."

**Regulations section 1724.7** describes the subsurface injection project data which operators must file with the District Deputy to get, and maintain, injection project approval.

Regulations section 1724.10 identifies, among other things, an operator's injection project requirements to: (1) notify the Division about injection pressure increases (subd. (a)); (2) file injection reports (subd. (c)); (3) have an accurate pressure gauge or pressure recording device available (subd. (e)); (4) determine a maximum allowable surface pressure (subd. (i)); and (5) perform mechanical integrity testing (subd. (j)).

Regulations section 1724.10, subdivision (h), requires that "[d]ata shall be maintained to show performance of the project and to establish that no damage to life, health, property, or natural resources is occurring by reason of the project." It also requires that "[i]njection shall be stopped if there is evidence of . . . damage, or loss of hydrocarbons, or upon written notice from the Division. (Emphasis added.)

Regulations section 1777, subdivision (c)(4), requires an operator to disconnect injection lines from injection wells unless there is current approval from the Division to inject.

#### V. Failure to Accurately Report Injection Pressures

While Greka had been timely reporting much of its monthly injection statistics, a Division forensic analysis of Greka's reports, which included information from Division project site visits as well as the Division's scientific calculations, indicated that Greka has been deficient in reporting its monthly injection pressures and/or volumes. The Division's analysis revealed at least 1,825 incorrect monthly reports for injection wells at the project (from the time it began operating the project in June 2004, until the 2017 analysis) where Greka must have been deficient in reporting injection pressures because it was physically impossible to reconcile the injection pressures and the injection rates.

In addition, Greka supplied to the Division a November 2005 Netherland, Sewell & Associates, Inc. study of the Richfield East Dome Unit that indicates that the consulting firm discovered "discrepancies. . . between injection data maintained by operations personnel and those data reported to the California Department of Conservation."

Most important, Division field engineers observed deficient injection reporting during a radioactive injection survey and during injection well inspections.

On or about June 15, 2017, a Division engineer witnessed a radioactive injection survey mechanical integrity test (MIT) for active injection well YW22 (API 05920692). The engineer's inspection report indicated: "Well shut in on arrival. Contractor (WAC) asked operator to turn on injection, and bring pressure to approx. 500 psi. Operator on site (Greka) stated that it would likely not be possible to maintain an injection pressure of 500 psi or above. Survey performed at

psi<sup>2</sup>, yet Greka's employee stated that it would be difficult to maintain a 500 psi injection pressure. In addition, the Division engineer indicated that the surveying personnel from Greka's contractor (WAC) told him that the well had zero pressure prior to the start of the survey. The statements which Greka's and its agent's personnel made imply that the reservoir was unable to support a column of injection liquid at the time of the June 15, 2017 test because the formation would absorb the liquid faster than it was injected. If true, this physical situation (less injection pressure needed over time to do the same work) does not support Greka's reports indicating that pressures have been constant for 13 years. This too, indicated that Greka must have been deficient in reporting pressures.

In addition, Division engineers were present at Greka's Richfield injection project site on

500 psi." For 13 years, the injection pressure Greka had been reporting for that well was 950

In addition, Division engineers were present at Greka's Richfield injection project site on June 27, 28, and July 6,7, and 13, 2017, to record the injection pressures. At those times, the Division engineers found discrepancies between the pressures the engineers observed and the monthly values Greka had been reporting. Compounding the issues, the Division engineers noted that there were no injection flow meters on any of the wells they inspected. Apparently, Greka determines injection volumes by inserting a portable measuring device in the injection lines and taking injection readings. Greka's on-site representative, Dan Boyd, stated that they take volume readings once a week, on Fridays, with this portable measuring device. Even though the injection well readings are weekly, a pressure change month after month should still be captured in these weekly readings yet it was not. Thus, Greka must be deficient in reporting pressures.

The Division included such deficient reporting allegations in the Supervisor's December 13, 2017 Order (#1119; Exhibit C) to which Greka responded in its February 5, 2018 Answer by admitting "Upon review by HVICC in December 2017, there was discovered an unintentional omission in the transfer of REDU's well data from the field personnel to the administrative clerk in that the monthly spreadsheet utilized did not contain a column for inserting the injection well

<sup>&</sup>lt;sup>2</sup> Or psig (pounds per square inch, gauge).

pressures. As a result, the administrative clerk did not change those values in the reports to DOGGR and pressures for the active injectors inadvertently appeared to remain constant." (Exhibit D; Emphasis added.)

The significant amount of inaccurate data, over a significant period of time, largely increases the potential for harm to life, health, property, and natural resources from incorrect well and project management. As such, based on the above, and **PRC sections 3227 and 3236.5**, among others, for 360 reporting violations, on thirty (30) wells, between January 2017 and December 2017, the Supervisor is imposing a \$936,815 civil penalty on Greka.

## VI. Failure to Comply with Testing and Operating Requirements for UIC Projects

**Regulations section 1724.10** contains specific testing and operating requirements for all underground injection wells. These include requirements for mechanical integrity testing, and accurate operating tubing pressure gauges. Greka has violated these regulatory requirements multiple times, as described below.

## a. Failure to Perform Mechanical Integrity Testing

Regulations section 1724.10, subdivision (j), requires a two-part MIT regime designed to ensure that the well is not leaking and that the injected fluid is confined to the appropriate subterranean zone(s) and is not contaminating underground sources of drinking water. First, a standard annulus pressure test (SAPT) is required prior to the commencement of injection operations, and it must be repeated at least once every five years. Second, a Radioactive Tracer Survey (RA Survey) must be conducted within three months after injection has commenced, and it must be repeated at least once every two years.

Division records show that, between January 1, 2017 and December 31, 2017, Greka failed to conduct its required Mechanical Integrity Testing. The omissions included seventeen (17) overdue RA Surveys and fifteen (15) overdue SAPT's. Greka has repeatedly violated **Regulations section 1724.10, subdivision (j),** because it has not performed the required tests. These tests are required to ensure that there are no breaches to the wells which could allow the migration of fluids (liquid and gas) into the ground and air where they could do harm.

Greka responded to this allegation in its February 5, 2018 Answer by admitting, by implication (i.e., Greka finally conducted overdue tests), that some of the MIT's were not timely performed. (Exhibit D; p. 3.)

Based on the above, and PRC section 3236.5, for Greka's failure to conduct timely MIT's, the Supervisor is imposing a total civil penalty of \$2,760,202.

#### b. Failure to Maintain Accurate, Operating Pressure Gauges

During June and July 2017 inspections of injection wells at Greka's Richfield operation, Division personnel discovered that wells either did not have operating tubing pressure gauges or had broken gauges. Because accurate, operating tubing pressure gauges were not available for project wells, Greka violated **Regulations section 1724.10**, **subdivision** (e). In accord with well integrity testing, such pressure gauges are required to ensure that there are no breaches to the wells which could allow the migration of liquid and gas into the ground and air where they could do harm.

Based on the above, and **PRC section 3236.5**, for Greka's failure to maintain accurate, operating pressure gauges at 26 wells, the Supervisor is imposing a civil penalty of **\$810,464**.

# c. Failure to Conduct Operations in Accord with Good Oilfield Practice.

As of December 2017, upon information and belief, Operator did not address idle well test failures, that occurred in July 2014 and February 2016 on 5 wells and 2 wells, respectively. The Division considers Operator's failure to "follow-through" on these test failures to not be in accord with good oilfield practices in violation of **Regulations section 1722**, **subdivision (a)**, because, among other things, the failed tests signal an issue with the well and is contrary to Operator's mandate to maintain data to show performance of the project and to establish that no damage to life, health, property, or natural resources is occurring per **Regulations section 1724.10**, **subdivision (h)**.

Based on the above, and **PRC section 3236.5**, for Greka's failure to conduct operations in accord with good oilfield practice concerning failed idle well tests at 7 wells, the Supervisor is imposing a civil penalty of \$480,624.

#### VII. Failure to Comply with Project Approval Letter (PAL) Requirements

Each injection project has an associated PAL. In addition to reminding an operator about important statutory and regulatory injection project requirements, the PAL specifies the individualized conditions and specifications within the Division's discretion which the operator must follow for continued injection project approval. Greka has not complied with the requirements specified in PAL items 5, 8, and 9 (Exhibit A), which, at a minimum, violates **Regulations section 1714** and **Regulations section 1722**, **subdivision** (g).

The PAL item deficiencies are detailed as follows:

### a. PAL Item 5

This PAL condition requires a fluid injection survey MIT "for each injection well within three months after injection has commenced, at least once every year thereafter, after any significant anomalous rate or pressure change, or as requested by this office to confirm that the injection fluid is confined to the intended zones." (Emphasis added.) The PAL condition also requires Greka to file all MIT data with the Division "within two months after being performed." Since Greka took over the project in 2004, Greka repeatedly violated this PAL condition because it did not perform and report the required tests at the required intervals. And, as indicated above, Greka admitted, by implication, that it failed to conduct timely MIT's. (Exhibit D; see also, Section VI, subsection a, above.)

## b. PAL Item 8

This PAL condition requires that Greka have an accurate, operating pressure gauge or pressure recording device available at all times, and that all injection wells must be equipped for installation and operation of such gauge or device. In addition, a gauge or device used for injection pressure testing, which is permanently affixed to the well or any part of the injection system, shall be calibrated at least every six months. Evidence of such calibration must be available to the Division upon request. However, during Division inspections the Division found that wells had either no gauge or a broken tubing gauge and Greka could not furnish the calibration date(s) of the portable pressure device. (See **Section VI**, **subsection b**.) Broken and

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27 28 missing gauges are not compliant with PAL Item 8. Nor is the inability to furnish the calibration date(s) of portable pressure devices.

#### c. PAL Item 9

This PAL condition requires Greka to file a monthly injection report with the Division listing the amount of fluid injected, pressure required, and source of injection fluid. Based on the Division's records and forensic analysis detailed above in Section V, subsection a, the Division determined that Greka continuously reported deficient monthly pressures in its wells, with deficient reports in 29 wells going back to the initial date Greka became responsible to operate the project (June 17, 2004). In addition, MITs performed in June 2014 for wells "Redu" YW19 (API 05906112) and "Redu" ZW14 (API 05906232) indicate injection pressures much higher than the monthly reported values for June of 2014. Most important, as indicated above, Greka admitted to deficient reporting (Exhibit D). As such, Greka continuously violated this PAL condition.

## VIII. Failure to Provide Required Project Data for Project Review

As indicated above, **Regulations section 1724.7** describes the injection project data requirements which operators must file with the District Deputy to get, and maintain, injection project approval. From a letter sent December 23, 2015, the Division transmitted to Greka a list of items which the Division needed to complete its review of Greka's injection project. Greka did not provide all the required information for the Division's injection project review. The following deficiencies were noted:

## a. Missing Engineering Study Data

- i. The reservoir characteristics of each zone.
- ii. An analysis of the reservoir fluid (required by the Notice to Operators "Water Sampling Protocols and Analyses of Injection and Formation Waters" dated May 18, 2015 and amended June 8, 2015.)
- iii. A planned well-drilling and abandonment program.
- iv. Almost all of the required updated casing diagrams.

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#### b. Missing Geologic Study Data

- i. A structural contour map of each zone.
- ii. Legible isopach maps.
- iii. A representative electric log.

## c. Missing Injection Plan Data

- i. The operator did not specify the method of injection (e.g., tubing and packer).
- ii. The operator did not provide information for the source of injection fluid and the analysis of the injection fluid required by the Notice to Operators entitled "Water Sampling Protocols and Analyses of Injection and Formation Waters" dated May 18, 2015 and amended June 8, 2015.

The Division sent "follow-up" letters requesting the required injection project data on December 23, 2015, and January 20, 2017. As of the date of the Supervisor's December 13, 2017 Order (#1119; Exhibit C), Greka had still not fully complied. Greka responded to this allegation in its February 5, 2018 Answer by admitting, by implication, that all the data had not been sufficiently and timely supplied. (Exhibit D; pages 4-5.)

Project data, including the configuration of wells and the condition of the subsurface, allow the Division to monitor Greka's management of the project and could help prevent any project upsets, such as the unwanted migration of fluids, before it happens. As such, based on the above, and **PRC section 3236.5**, for Greka's failure to timely provide the required project data, the Supervisor is imposing a civil penalty of **\$88,315**.

## IX. <u>Civil Penalty Assessment</u>

Pursuant to **PRC section 3236.5**, when the Supervisor establishes a civil penalty amount, "the supervisor shall consider, in addition to other relevant circumstances, all of the following: (1) The extent of harm caused by the violation; (2) The persistence of the violation; (3) The pervasiveness of the violation; (4) The number of prior violations by the same violator; (5) The degree of culpability of the violator; (6) Any economic benefit to the violator resulting from the

violation; (7) The violator's ability to pay the civil penalty amount, as determined based on information publicly available to the division; and (8) The supervisor's prosecution costs."

The Supervisor determines whether a violation qualifies as a "major" or "minor" violation in accordance with PRC section 3236.5. A "major violation" is a violation that is not a well stimulation violation and that is one or more of the following: (i) A violation that results in harm to persons or property or presents a significant threat to human health or the environment; (ii) a knowing, willful, or intentional violation; (iii) A chronic violation or one that is committed by a recalcitrant violator (based on whether there is evidence indicating that the violator has engaged in a pattern of neglect or disregard with respect to applicable requirements); (iv) A violation where the violator derived significant economic benefit, either by significantly reduced costs or a significant competitive advantage. The civil penalty amount for a major violation shall be not less than two thousand five hundred dollars (\$2,500) per violation and not more than twenty-five thousand dollars (\$25,000) per violation. A "minor violation" is a violation that is neither a well stimulation violation nor a major violation. The civil penalty amount for a minor violation shall not be more than two thousand five hundred dollars (\$2,500) per violation. At the Supervisor's discretion, each day a major or minor violation continues or is not cured may be treated as a separate violation.

Based on the above allegations and Greka's admissions, at this time, the Supervisor hereby imposes a civil penalty of \$5,076,420. The amount is primarily based on a subset of major violations in 2017. A breakdown of the civil penalty amounts imposed for each type of violation is as follows:

- Deficient Injection Reporting (January 2017 to December 2017):
   \$936,815
- Failure to Perform Mechanical Integrity Tests (RA Tracer Surveys/SAP tests (January 2017 to December 2017): \$2,760,202
- Failure to Maintain Accurate, Operating Pressure Gauges (January 2017 to December 2017): \$810,464

- Failure to Conduct Operations in Accord with Good Oilfield Practice. (2014-2017): \$480,624
- Failure to Provide Required Project Data (2017):
   \$88,315

The civil penalty amounts are based on the review of factors for violations in **PRC** section 3236.5. The Supervisor reserves his right to add prosecution costs as appropriate under **PRC** section 3236.5, subdivision (a)(8).

## X. "Life-of" Bonding

Pursuant to **PRC section 3270.4**, when an operator has a history of violating Division 3 of the Public Resources Code or has outstanding liabilities to the state associated with a well or production facility, the Supervisor may require a life-of-well or life-of-production facility bond in an amount adequate to ensure all of the following:

- (1) The proper plugging and abandonment of each well.
- (2) The safe decommissioning of each production facility.
- (3) The financing of spill response and incident cleanup.

As detailed above, Greka has a history of violating Division 3 of the Public Resources Code. In addition, Greka has outstanding liabilities to the state, some of which have led to existing state tax liens. (See **PRC section 3423**).

Among other things, **Regulations section 1722.8** addresses the factors the Supervisor considers when establishing a life-of-well and/or a life-of-production facility bond amount. Two factors include the cost to plug and abandon all wells and site restoration (See **Regulations section 1722.8**, **subdivision (c)**.)

According to Division records, Greka operates 153 wells as part of the project. The Supervisor considered an estimated plugging and abandonment cost of \$125,171 per well so the total estimated cost to plug and abandon all wells is \$19,151,163. Greka also operates one production facility under the subject UIC approval addressed herein. The estimated cost to decommission the production facility and restore the lease is \$19,643,600. The estimated cost

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for potential spill response and incident cleanup is \$180,700. As such, the Supervisor determined that the proper amount per PRC section 3270.4 and Regulations section 1722.8 is \$38,975,463.

#### XI. Operator's Required Actions

Based on the above, and pursuant to 3013, 3106, 3222, 3224, 3226, 3227, 3236.5 and, 3270.4, Regulations sections 1714, 1722, subdivisions (a) and (g), 1722.8, 1723.9, 1724.6, 1724.7, and 1724.10, the Supervisor hereby orders Greka to stop all injections approved under UIC Project No. 598-00-004 (as soon as it is safe to do so) and to address the items identified below. They include paying the civil penalty of \$5,076,420 and filing an appropriate bond for \$38,975,463. Greka is also required to disconnect all injection wells per Regulations section 1777, subdivision (c)(4), unless otherwise directed by the Division.

#### Operator is required to:

- 1. Correct all deficient injection reporting;
- 2. Submit all missing injection reports;
- 3. Bring all injection wells into compliance concerning required RA surveys;
- 4. Bring all injection wells into compliance concerning SAPT's;
- 5. Retest and/or repair its idle wells where the idle well tests failed;
- 6. Supply all data requested for injection project review and approval;
- 7. Pay a civil penalty of \$5,076,420; and
- 8. File an appropriate bond for \$38,975,463.

## XII. Operator's Appeal Rights

Operator may appeal this Order by filing a timely, written, notice of appeal with the Director as described in Article 6 (Appeals and Review) of Division 3 of the PRC, **commencing** with PRC section 3350. (PRC, § 3225, subd. (d).) A written notice of appeal may be mailed to the following address:

Department of Conservation Director's Office of Appeals 801 K Street, MS 24-03 (Legal Office, Chief Counsel) Sacramento, California 95814-3530

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If Operator does not submit a timely, written, notice of appeal, Operator waives the right to challenge this Order and this Order will become a final order. At such time, pursuant to **PRC** section 3226, the Division may contract for the performance of all work required to disconnect all injection project injection wells if, within 30 days of this Order, Operator has not, in good faith, commenced the disconnection of such wells. Any costs incurred by the Supervisor to obtain compliance with this Order will constitute a lien against Operator's real or personal property per PRC section 3423.

The Division acknowledges that Operator has submitted a timely written notice of appeal of this order. The date, time, and place of that appeal hearing is set forth in the notice that the Division transmitted to Operator on November 30, 2018. Following the hearing, Operator will receive a written decision that affirms, sets aside, or modifies the appealed order.

## XIII. Other Potential Actions to Enforce This Order

Failure to comply with Section XI (Operator's Required Actions) of this Order could subject Operator to further enforcement action, including the possibility that the Supervisor may request prosecution of a criminal action under PRC section 3236, which makes failing, neglecting, or refusing to comply with applicable provisions of the PRC, a misdemeanor punishable by a fine of \$100 (one hundred dollars) to \$1,000 (one thousand dollars), imprisonment of up to six (6) months or both.

DATED: January 31, 2019

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Kenneth A. Harris Jr.

State Oil and Gas Supervisor

#### **DECLARATION OF SERVICE BY E-MAIL and U.S. Mail**

Case Name: DOGGR v. Greka Oil & Gas - Admin Enforcement Action

No.: 1119 OAH No.: 2018070292

I declare:

I am employed in the Office of the Attorney General, which is the office of a member of the California State Bar, at which member's direction this service is made. I am 18 years of age or older and not a party to this matter. I am familiar with the business practice at the Office of the Attorney General for collection and processing of correspondence for mailing with the United States Postal Service. In accordance with that practice, correspondence placed in the internal mail collection system at the Office of the Attorney General is deposited with the United States Postal Service with postage thereon fully prepaid that same day in the ordinary course of business.

On <u>January 31, 2019</u>, I served the attached **THIRD AMENDED ORDER TO: STOP INJECTION, REMEDIATE PROJECT ISSUES, TAKE PREVENTATIVE MEASURES, AND IMPOSE A CIVIL PENAL TY AND, 'LIFE-OF" BOND** by transmitting a true copy via electronic mail. In addition, I placed a true copy thereof enclosed in a sealed envelope, in the internal mail system of the Office of the Attorney General, addressed as follows:

Randall Fox Reetz, Fox & Bartlett, LLP 116 East Sola Street Santa Barbara, CA 93101 mailto:rbfox@reetzfox.com

Susan Whalen
The Law Office of Susan M. Whalen 2806 Alta Street
Los Olivos, CA 93441
mailto:Susan@whalenattorney.com

I declare under penalty of perjury under the laws of the State of California the foregoing is true and correct and that this declaration was executed on January 31, 2019, at Los Angeles, California.

Alfred Palma	/s/ Alfred Palma
Declarant	Signature

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