State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhD Deputy Cabinet Secretary **Dylan Fuge**, Division Director **Oil Conservation Division**



BY ELECTRONIC MAIL ONLY

September 6, 2023

Dan Guillotte MorningStar Operating LLC 400 W. 7th Street Fort Worth, TX 76102 dguillotte@txoenergy.com

RE: MorningStar Operating LLC - Notice of an Administratively Complete Discharge Permit Application for Buckeye CO₂ Plant

Dear Mr. Guillotte:

The New Mexico Energy, Minerals and Natural Resource Department's Oil Conservation Division (OCD) has reviewed your amended discharge permit application, dated August 31, 2023, for MorningStar Operating LLC (MorningStar), Buckeye CO₂ Plant. OCD has determined that the amended discharge permit application is administratively complete.

Given OCD's determination, MorningStar must provide public notice within 30 days of receipt of this letter (i.e., October 6, 2023) in accordance with the requirements of 20.6.2.3108(B) NMAC to the general public in the locale of the Plant by each of the methods listed below:

- Prominently posting a synopsis of the public notice at least 2 feet by 3 feet in size, in English and in Spanish, at the Plant's main entrance and at the intersection of Texas Camp Road and Highway 238 for 30 days;
- 2. Providing written notice of the discharge by mail or electronic mail, to owners of record of all properties within a 1/3 mile distance from the boundary of the property where the discharge site is located; if there are no properties other than properties owned by the discharger within a 1/3 mile distance from the boundary of property where the discharge site is located, MorningStar shall provide notice to owners of record of the next nearest adjacent properties not owned by the discharger;
- 3. Providing notice by certified mail, return receipt requested, to the owner of the discharge site if MorningStar is not the owner; and

4. Publishing a synopsis of the notice in English and in Spanish, in a display ad at least three inches by four inches *not* in the classified or legal advertisements section, in the Lovington Leader. Note, the public notice in the application, first paragraph, contains an error. The OCD telephone number is 505-476-3441 and not 505-476-3440. MorningStar needs to correct this error.

Within 15-days of completion of the public notice requirements in 20.6.2.3108(B) NMAC, MorningStar must submit to the OCD proof of the notice, including affidavit of mailing(s) and the list of property owner(s), proof of publication, and an affidavit of posting, as appropriate.

Also, as part of the discharge permit application, MorningStar was required to submit a Closure/Post Closure Plan for OCD approval. OCD has reviewed this plan and hereby approves the Closure/Post Closure Plan. The financial assurance (FA) associated with this plan is \$2,956,000. The FA must be on OCD-prescribed forms, or forms otherwise acceptable to the OCD, payable to the OCD. Bond forms can be found at the bottom of OCD's Forms Page located at <u>https://www.emnrd.nm.gov/ocd/ocd-forms/</u>. The FA is due to the OCD within 30-days of email receipt of this letter (i.e., October 6, 2023).

If you have any questions, please do not hesitate to contact me by email, <u>LeighP.Barr@emnrd.nm.gov</u>, or by phone, (505) 795-1722. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this process.

Regards,

Leigh Barr

Leigh Barr Administrative Permitting Supervisor

GROUNDWATER DISCHARGE PERMIT APPLICATION

Buckeye CO₂ Plant Section 36 Township 17 South, Range 34 East Lea County, New Mexico

Prepared For:

MorningStar Operating LLC 400 West 7th Street Fort Worth, TX 76102

August 2023

Prepared by:

Portnoy Environmental, Inc. 1414 W. Sam Houston Pkwy N., Suite 160 Houston, Texas 77043 (713) 805-2994

Alan Hopkins, P.G. Sr. Vice President



TABLE OF CONTENTS

1.0	FACILITY DESCRIPTION	1
2.0	SITE CHARACTERISTICS	3
3.0	POTENTIAL AND INTENTIONAL DISCHARGES	5
	3.1 Storage and Collection Systems	5
	3.2 Source of Effluent and Waste Streams	5
4.0	COLLECTION AND STORAGE SYSTEMS	6
5.0	INSPECTION, MAINTENANCE, AND REPORTING	7
6.0	PROPOSED MODIFICATIONS	3
7.0	SPILL/LEAK PREVENTION AND REPORTING PROCEDURES	9
8.0	PUBLIC NOTICE	1
9.0	ADDITIONAL INFORMATION	2
10.0	FACILITY CLOSURE/POST CLOSURE PLAN	3
11.0	FINANCIAL ASSURANCE	4

Attachments:

Attachment A	Facility Map, Figures, C-103 Form
Attachment B	On-Site Drain Drawings
Attachment C	C-101 Forms
Attachment D	Inspection Log
Attachment E	Closure Plan Cost Estimate



1.0 FACILITY DESCRIPTION

The Buckeye CO₂ Plant (Plant) is located north of Texas Camp Road, approximately one mile southwest of Buckeye, Lea County, New Mexico. The facility location is in the SW ¼ of SE ¼ of Section 36, Township 17 South, Range 34 East at latitude/longitude 32.784532, -103.508311. A facility location map is shown on *Figure 1* in *Attachment A*.

Ownership and contact information are shown below:

Owner/Operator:	MorningStar Operating LLC
Mailing Address:	400 W. 7^{th} St., Fort Worth, TX 76102
Phone/Fax:	(817) 334-8098
Contact:	Dan Guillotte – EHS Manager
E-mail:	dguillotte@mspartners.com

The Plant originally began operation in November 1998 and is currently designed to handle 60 MMscfd of CO₂-rich gas along with entrained hydrocarbons and water. The plant utilizes the Ryan-Holmes process to recover hydrocarbons from the carbon dioxide rich gas stream that is produced with oil production from nearby fields. After the hydrocarbons are removed, the CO₂ gas stream (plus methane, ethane, and H₂S) is piped offsite for reinjection, i.e., enhanced oil recovery.

The gas enters the plant and flows to the inlet separator where the gas and liquids are separated. The liquids are pumped off site via pipeline to production facilities. A side stream of the inlet gas flows to the inlet feed exchanger, which uses hot compressor discharge gas to warm the inlet gas during cooler weather. Feed gas from the inlet feed exchanger flows to two inlet gas filter separators. Clean filtered gas is then sent to the triethylene glycol (TEG) contactor where high purity TEG absorbs water vapor from the wet inlet gas. The rich glycol, containing water absorbed from the inlet gas, enters the Drizo regeneration system, which is patented and licensed, to Chevron by Prosernat. Drizo differs from conventional TEG regeneration systems in that: (1) it uses hydrocarbon solvent stripping to achieve an extremely high TEG concentration, and (2) it is a sealed system with no vents to atmosphere. Water and solvent from the TEG reboiler are condensed and flow to a separator for degassing. Benzene, toluene, ethyl benzene, and xylene (BTEX) in the inlet gas are also absorbed into the rich TEG, recovered as a low-vapor pressure liquid, and become part of the circulating solvent. The heat for the TEG reboiler is supplied by the hot oil system.

The dehydrated inlet gas then flows to the compressor building consisting of five electric motor-driven reciprocating compressors which provide compression of CO₂, which is then reinjected into the producing fields (CVU and VGSAU). There are three electric motor driven propane compressors used in the propane refrigeration process. The CO₂ is injected in the CVU and VGSAU units via VGSAU 18. The approved C-103 for Well API No. 30-025-24317 is included in *Attachment A*.

Hot compressed inlet gas is routed to the first stage discharge cooler, and then sent to the propane recovery column (PRC). The PRC is where the NGL product is separated from the CO₂ using the Ryan-Holmes process. The overhead vapor from the PRC is partially condensed in two PRC reflux condensers. The gas



Groundwater Discharge Permit Application	August 2023
Buckeye CO ₂ Plant, Lea County, NM	Page 2

and liquid are separated in the PRC reflux accumulator and the liquid is pumped to the top of the PRC by three PRC reflux pumps. A detailed Plant drawing is included as *Figure 2* in *Attachment A*.

Secondary recovery by water flooding was initiated in the Central Vacuum Unit (CVU) in 1977, the Vacuum Grayburg San Andres Unit (VGSAU) in 1973 on 40 acre spots and then 10 acre infills in the 1980's and 90's, and the West Vacuum Unit (WVU) in 1992. Fluids are separated at satellites and plants. The produced water is reinjected and supplemented with water from nearby CVX fields. Wet gas from the waterflood portions of the field are sold directly to Targa. Wet gas from the CO₂ flood is processed at Buckeye Plant.



August 2023 Page 3

2.0 SITE CHARACTERISTICS

Geographically, the Plant is situated near the western boundary of the southern extension of the High Plains in southeastern New Mexico. Topographically, the Southern High Plains, a plateau, rises approximately 100 to 300 feet above the surrounding region and slopes to the southwest at 10 to 20 feet per mile.

The formations of interest in this area are the DacCum group, or "Redbed" and the Ogallala. The relatively impermeable shale facies of the upper portion of the Triassic Redbed represent the lower limit of the overlying Ogallala aquifer. The Triassic Redbeds are composed of red to reddish brown mudstone with minor interbedded sandstone. This clay formation which underlies the fresh water aquifer is very irregular, varying in depth as much as fifty feet. Where the redbeds are exposed to the surface, it appears the changes and irregularities are due to stream erosion. These ridges and channels along with the southeastward dip of the redbed surface control the direction and movement of ground water in the lower portion of the Ogallala formation. The Ogallala formation overlying the redbeds is found to consist of an upper unit of very dense light gray, beige to light pink caliche that contains occasional thin layers of light to medium brown very fine-grained silty sand. This upper caliche unit ranges in thickness from 28 to 80 feet. Underlying the upper caliche unit, the Ogallala formation consists of unconsolidated, loose to very loose very fine-grained clean to silty sand with some medium to coarse-grained, clean to silty sand containing occasional small diameter gravel with occasional thin layers of very fine to medium grained sandstone and sandy clay. Immediately below the middle unit and just above the base of the Ogallala formation is a 2 to 12 foot section of clean 1/8 to 1/2 inch diameter gravel.

The Ogallala aquifer commonly yields 250 to 800 gallons per minute (gpm) and locally yields as much as 1,000 gpm in some wells. The quality of the ground water in the Ogallala formation is reported to be generally suitable for domestic, municipal and irrigation use. Water in this area is also used for makeup waterflood projects. The depth to the first usable aquifer is 115-120 feet. The Total Dissolved Solids (TDS) concentration is 324 mg/L as measured in MW-22 at the Targa gas plant to the south through analytical testing. The well was sampled in June 2021 and the results were reported in *"2021 Annual Groundwater Monitoring Report, Buckeye Compressor Station, Abatement Plan AP-104, Lea County, NM"* dated February 2022, prepared by Arcadis.

There are no known bodies of water, streams or other watercourses within one mile of the Plant. During the 25 year operating history of the Plant there have been no known flooding events.

There are multiple freshwater wells within a one mile radius of the plant as shown in the EDR Radius Map included in *Attachment A*. These wells are associated with oilfield production. There are no known public drinking water wells within one mile.

In addition, there are multiple groundwater monitoring wells associated with the Targa gas plant to the south and the former Buckeye Compressor Station. One monitoring well is located on Plant property (MW-21). Based on a 2022 annual groundwater monitoring report, groundwater is not impacted in this well. The groundwater flow direction is to the east-southeast as shown on *Figure 3* in *Attachment A*. MorningStar



is the owner/operator who submitted the 2022 annual groundwater monitoring report and the responsible entity for monitoring well MW-21.



3.0 POTENTIAL AND INTENTIONAL DISCHARGES

There are no intentional discharges located at the plant.

3.1 Storage and Collection Systems

Materials used or stored at the Plant are shown below:

Gasoline Storage Tank	500 gallon metal overhead tank with steel secondary containment
Diesel Storage Tank	500 gallon metal overhead tank with steel secondary containment
Triethylene Glycol Tank	750 gallon Suncoast Chemical metal overhead tank with steel secondary containment
Lube Oil Tank	4,200 gallon Chevron Rando HD 150 metal tank with concrete containment
Lube Oil Tank	1,034 gallon Chevron Cetus Hipersyn metal tank with concrete containment
Coolant Tank	3,000 gallon Chevron HDAX prediluted 50/50 fiberglass tank with concrete containment
Methanol Tank	500 gallon Suncoast Chemical metal overhead tank with steel secondary containment
Open Drain System	1,000 gallon general process fluids fiberglass tank with fiberglass secondary containment

3.2 Source of Effluent and Waste Streams

There is no on-site disposal and all fluids collected at the Plant are re-injected into the production field. Ten cubic yards of contaminated soil were sent to Sundance Disposal in Eunice, NM via truck due to the flare separator pump skid being overfilled, which caused the release of one bbl of water on the ground.



4.0 COLLECTION AND STORAGE SYSTEMS

Three drawings are included in *Attachment B* that show the open and closed drains at the Plant that are used to manage all the waste liquids at the Plant. All the process skids within the plant are free draining hard piped to the closed drain sump. All contact rain/stormwater is handled in this manner as well. Non-contact rainwater generally would flow to the south, however average rainfall is approximately 10-12 inches per year and is unlikely to flow off site. In a major weather event, a high-high alarm is triggered on the drain sump. The drain sump also has auto start-stop features that are monitored from the operation station.

- Drawing 041 is the Open Drain system, taking all the rainwater and such from all the skids and anything else piped into it to a 48-inch outer diameter by 12-foot long tank sump. This tank is emptied approximately twice per day via a 45 gpm @ 160 psig 20 HP pump. This liquid is pumped to the production battery as shown on the right hand side of the drawing.
- Drawing 029 is the Closed Drain system, where everything hard piped into the system goes (like scrubber manual dumps, separator manual dumps, etc.). This liquid is pumped into the same line as the Open Drain to the production battery.
- Drawing 051C is the open and closed drains from the Dresser-Rand compressor C-217 that was added after initial Plant construction.

All of the Plant's wastewaters are disposed of in the Vacuum Glorieta production field via the Vacuum Glorieta Satellite 3 well. The wastewater is pumped from the Plant through a 2" carbon steel line to the VGWU production battery, then via pump to VG Injection Satellite 3, then to the production field. Copies of C-101 for VGWU #4 and VGWU #79 are included in *Attachment C*. The injection well and the waterflood project are operated by MorningStar.



August 2023 Page 7

5.0 INSPECTION, MAINTENANCE, AND REPORTING

Multiple inspections are completed throughout the day at the Plant by Plant personnel. The Plant is manned 24 hours per day, 7 days per week by two operators. Three inspections per shift are completed by the operators for the entire Plant between detailed rounds of operational checks. The operators always inspect for leaks. If a leak is observed, that piece of equipment/piping is shut down or isolated and if it is not able to be repaired by the operators immediately, a workorder is generated to have it repaired. The inspections are recorded electronically and a printout of the inspections is included in *Attachment D*.

MorningStar recognizes the potential for leaks to occur in its fluids line which is run underground from the Plant to the production battery for injection. In order to address this concern, MorningStar, will implement a mechanical integrity testing program on the line to be performed annually. Should a leak be detected, the transfer pump will be shut down and the line will be shut in to allow for any repairs and to prevent any additional leakage. Once the situation is assessed, any reporting to the OCD will be done as required in the time frame specified by the OCD and any remediation will be performed as required. The first test has not been completed at the time of this application and once completed, the results of the test will be reported to the OCD.



August 2023
Page 8

6.0 PROPOSED MODIFICATIONS

There are no modifications proposed at this time associated with this groundwater discharge permit application.



Page 9

Page 13 of 45

7.0 SPILL/LEAK PREVENTION AND REPORTING PROCEDURES

If a spill and/or release should occur at the Plant, the Plant Manager, or designated supervisor will notify the EHS Manager 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. 19.15.29.9 Release Notification
 - i. MorningStar shall notify the division of any unauthorized releases occurring during operations in accordance with the requirements of 19.15.29 NMAC
 - ii. MorningStar 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. 19.15.29.10 Reporting Requirements
 - i. MorningStar 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 of 19.15.29.10 NMAC
 - MorningStar 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. MorningStar shall provide immediate verbal notification within 24 hours of discovery of a major release > 25 bbls to the NMOCD. In addition, 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. MorningStar shall provide written timely notification within 15 days to the NMOCD by completing and filing form C-141. In addition, MorningStar 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. An appropriate remediation plan as required per rule 19.15.29.12 Corrective Action, will be submitted 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.



August 2023 Page 11

8.0 PUBLIC NOTICE

Public notices will be posted per 20.6.2.3108.B(1) NMAC at two locations; one at the entrance of the Plant off Texas Camp Rd and one at the intersection of Texas Camp Rd and Highway 238. The public notice will be published in the Lovington Leader based in Lovington, NM in a display ad at least 3 x 4 inches NOT in the classified or legal notice section of the newspaper for 1-day duration in English and Spanish. The following is the proposed notice:

"Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following groundwater 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.

MorningStar Operating LLC, 400 W. 7th St., Fort Worth, TX 76102 has submitted a Groundwater Discharge Permit Application for their Buckeye CO₂ Plant (Plant) located north of Texas Camp Road, approximately one mile southwest of Buckeye, Lea County, New Mexico. The facility location is in the SW ¼ of SE ¼ of Section 36, Township 17 South, Range 34 East at latitude/longitude 32.784532, -103.508311.

The plant originally began operation in November 1998 and is currently designed to handle 60 MMscfd of CO₂-rich gas along with entrained hydrocarbons and water. The plant utilizes the Ryan-Holmes process to recover hydrocarbons from the carbon dioxide rich gas stream that is produced with oil production from nearby fields. After the hydrocarbons are removed, the CO₂ gas stream (plus methane, ethane, and H₂S) is piped offsite for reinjection, i.e., enhanced oil recovery.

The plant collects liquid waste and contact stormwater via drain systems and injects it into the Glorieta/Paddock formation via OCD permitted injection wells at a total depth of 6,315 feet at a daily rate not to exceed 7,000 gallons. The total dissolved solids (TDS) concentration of the typically injected fluid is greater than 10,000 milligrams/liter (mg/l). Groundwater most likely to be affected by accidental discharge is at a depth from 115-120 feet and has a TDS of approximately 325 mg/l. The discharge plan addresses operation of the plant and associated surface facilities and provides a contingency plan 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 505-476-3441.

The OCD contact by which interested parties may obtain information, submit comments, and request to be placed on a facility-specific mailing list for future notices is Leigh Barr, Administrative Permitting Supervisor, 505-795-1722, LeighP.Barr@emnrd.nm.gov. The OCD mailing address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505. The website address for discharge permit notices can be found at <u>https://www.emnrd.nm.gov/ocd/applications-permits-notifications/</u>. The OCD will accept comments and statements of interest regarding the discharge permit application and will create a facility-specific mailing list for persons who wish to receive future notices.



August 2023 Page 12

9.0 ADDITIONAL INFORMATION

MorningStar does not foresee in the present or reasonably foreseeable future that the discharge permit will result in concentrations in excess of the standards of Section 20.6.2.3103 NMOAC.



10.0 FACILITY CLOSURE/POST CLOSURE PLAN

Pursuant to WQCC 20.6.2.3107(A)(11) NMAC, a facility closure/post closure plan should be submitted and should reference OCD guidelines for accepted remediation techniques and other closure guidelines. The closure plan should provide procedures to prevent the exceedance of standards of 20.6.2.3103 NMAC in groundwater after the cessation of operations. Since MorningStar recently acquired the Plant in 2022, the following general closure plan is provided:

- 1. When the plant permanently discontinues operations, all stored fluids in equipment and tanks will be removed and either sold, reused or disposed.
- 2. Sampling and clean-up of historical releases (if any) that could not be remediated due to infrastructure while in operation will be completed per State, Federal and local regulations in effect at the time of closure.
- 3. All surface equipment and infrastructure will be properly removed from the site and either sold, reused, or disposed.
- 4. Underground pipelines will be flushed with fresh water, capped on both ends and abandoned in place.
- 5. After all surface equipment and infrastructure are removed, the plant surface area will be recontoured to original slope and reseeded with native grasses.
- 6. Ongoing monitoring and maintenance of the re-vegetation will be completed for two successive growing sessions.
- 7. Ongoing monitoring and maintenance of ground water monitoring wells (if applicable) and annual report submittals to the OCD (not anticipated).

A cost estimate for the above closure plan is included in Attachment E.



August 2023 Page 14

11.0 FINANCIAL ASSURANCE

20.6.2.3107(A)(11) NMAC requires that financial assurance be submitted to the OCD as part of the facility's Closure/Post Closure Plan. The facility must submit acceptable financial assurance in the amount of the facility's estimated closure and post closure cost within 30-days of OCD's approval of the Closure/Post Closure Plan. The financial assurance must be on OCD-prescribed forms, or forms otherwise acceptable to the OCD, payable to the OCD. Upon approval of the closure plan, MorningStar will provide financial assurance for closure of the Buckeye CO₂ Plant.



August 2023

ATTACHMENT A

FACILITY MAPS AND FIGURES









1 REVISED AS NOTED 0 ISSUED FOR PHASE I DESIGN

8 AS-BUILT PER FIELD WALKDOWN, MOC #559009 06/07/19 JCM

1-26-98 1-26-98 TS TFS

				EQUIPMENT	DESCRIPTION
				0081-6-1	Buckeye CO2 Plant 0081 - Vacuum Carsbad Area Building- MAIN EQUIPMENT BUILDING
				0081-6-2 0081-6-3 0081-6-4-A	Building - COMPRESSOR BUILDING Building - Motor Control Center BUILDING Building - FOXBORO ANALYZER SHELTERS (North)
				0081-6-4-B 0081-6-4-C 0081-6-5	Building - FOXBORO ANALYZER SHELTERS (Middle) Building - FOXBORO ANALYZER SHELTERS (South) Building - AIR COMPRESSOR BUILDING
_	N.16+00'-0"			0081-6-6 0081-6-7 0081-6-8	Building - I&E SHOP/OFFICE Building - IZS ANALYZER SHELTER Building - Warehouse
				0081-6-9 0081-6-10 0081-1-9	Building - Storage Building Building - Fresh Water Pump Shed Vessel - 1ST STAGE SUCTION SCRUBBER
				0081-1-41 0081-1-42 0081-1-10	Vessel - Potable Water Storage Tank Vessel - Potable Water Pressure Tank Vessel - PROPANE RECOVERY COLUMN
				0081-1-11 0081-1-18 0081-1-27	Vessel - PRC REFLUX ACCUMULATOR Vessel - FLARE SEPARATOR Vessel - 3RD STAGE SUCTION SCRUBBER
				0081-1-29 0081-1-18 0081-1-34	Vessel - ZND STAGE SUCTION SCRUBBER Vessel - FLARE SEPARATOR Vessel - FUEL GAS SCRUBBER
				0081-1-35 0081-1-39 0081-1-28	Vessel - ISO 460 LUBE OIL TANK Vessel - COULANT STORAGE TANK Vessel - SAE 40 LUBE OIL STORAGE TANK
	N.15+00'-0"			0081-10-16 0081-10-17 0081-10-18	ISO 400 LOBE OIL HAAN ER YOMP METHANOL INJECTION PUMP COOLANT TRANFER PUMP DOTANI E WATER DI WIN
				0081-10-28 0081-10-8 0081-10-10 0081-3-31	POTAGLE WATER FORM PROCESS DRAIN SUMP PUMP SAE 40 LUBE OIL TRANSFER PUMP SAE 40 LUBE OIL TRANSFER PUMP
				0081-3-32	ISO 460 LUBE OIL ELECTRIC HEATER
_	<u> </u>			0081-1-1 0081-3-1 0081-39-1	Vessel - Inlet Separator Exchanger - Inlet Feed Exchanger Vessel-Inlet Filer Separator
				0081-10-2 0081-10-2-1 0081-3-9	Pump - INLET SEPARATOR LIQUIDS RETURN PUMP Pump - INLET SEPARATOR LIQUIDS RETURN PUMP (SPARE) IST STAGE DISCHARGE COOLER
	N.14+00'-0"			0081-3-13 0081-3-14 0081-3-20	2ND STAGE DISCHARGE COOLER SRD STAGE DISCHARGE COOLER 1ST STAGE DISCHARGE COOLER
				0081-3-22	and stage Discharge Cooler Glycol System
$\langle \rangle$				0081-1-2 0081-1-3	Vessel - Glycol Contactor Vessel - Glycol Flash Tank
				0081-1-4 0081-1-5	Vessel - RICH STRIPPER 599009
				0081-1-6 0081-1-7 0081-1-8	Vessel - TEG SURGE TANK Vessel - SOLVENT WATER SEPARATOR Vessel - SOLVENT RECOVERY DRUM
				0081-10-1 0081-10-1-1 0081-10-3	Pump - TEG PUMP Pump - TEG PUMP (SPARE) Pump - DRUS SOLVENT PUMP
	N.13+00'-0"			0081-10-3-1 0081-10-9 0081-1-26	Pump - DRIZO SOLVENT PUMP (SPARE) Pump - pH CONTROL PUMP Tank - pH CHEMICAL TANK
	,			0081-3-30 0081-3-3 0081-3-4	Exchanger - LEANRICH TRIM COOLER Exchanger - TEG/TEG EXCHANGER Exchanger - TEG/TEB/DLER Exchanger - TEG REBOILER
/	/			0081-3-5 0081-3-6 0081-3-7 0081-3-7	Exchanger - LEAN IEG GUOLEN Exchanger - SOLVENT RECOVERY CONDENSER Exchanger - TEG STILL REFLUX CONDENSER Fixhanger - SOLVENT SUPERHEATEP
/	/			0081-3-8 0081-1-40 0081-54-2	Vessel - SOLVENI GUTENTEALEN Vessel - SOLVENI WATER STREPER Sump - TEG Filter Drain Pot
1				0081-1-14	Refrigerant System
T				0081-1-16 0081-1-36 0081-1-37	Vessel - REFRIGERANT SUCTION SCRUBBER Vessel - REFRIGERANT RECLAMER #1 Vessel - REFRIGERANT RECLAMER #2
+	N.12+00'-0"			0081-39-5 0081-3-19-A 0081-3-19-B	Filter - PROPANE REFRIGERANT LO COALESCER Exhanger - REFRIGERANT CONDENSER Exhanger - REFRIGERANT CONDENSER
/				0081-3-19-C 0081-3-19-D 0081-3-19-E	Exhanger - REFRIGERANT CONDENSER Exhanger - REFRIGERANT CONDENSER Exhanger - REFRIGERANT CONDENSER
				0081-3-19-F 0081-3-19-G 0081-3-19-H	Exhanger - REFRIGERANT CONDENSER Exhanger - REFRIGERANT CONDENSER Exhanger - REFRIGERANT CONDENSER
				0081-3-2 0081-3-10 0081-3-10-2	REFLUX CONDENSER PRC REFLUX CONDENSER PRC REFLUX CONDENSER
				0081-3-12 0081-3-12-2 0081-3-19-2-A	REFRIGERANT SUB-COOLER REFRIGERANT CONDENSER REFRIGERANT CONDENSER
	N 11±00'-0"			0081-4-201	201 Refrigerant Skid
	N.11+00-0			0081-4-201	203 Refrigerant Skid - 0081-58-2
				0081-4-205	205 Refrigerant Skid - 0081-58-3 Refrigerant Compressor
				0081-4-207	207 Compressor Skid
				0081-4-209	209 Compressor Skid
				0081-3-29	0081-4-209 JACKET/PACKING WATER COOLER 211 COMPRESSOR SKID
	N.10+00'-0"			0081-4-211	SUPERIOR WG76 FRAME-RECIP
				0081-4-213	
				0081-4-215	GE FS804 GAS COMPRESSOR FRAME
				0081-3-24 0081-4-102	HOL OIL SYSTEM 8
	ال مر			0081-1-17 0081-10-6 0081-10-6-1	Vessel - HOT OIL SURGE DRUM HOT OIL PUMP HOT OIL PUMP (SPARE) 599009
	RE TO GY.			0081-106-2 0081-4-6A 0081-4-6B	HOT OIL PUMP (SPARE)
PRESS	N.9+00'-0"	_		0081-10-11	NGL System NGL PRODUCT BOOSTER PUMP
				0081-1-30 0081-1-12 0081-1-13	Vessel - NGL PRODUCT SURGE TANK Vessel - NGL TREATER Vessel - NGL TREATER
				0081-10-19 0081-10-19-1 0081-57-1	NGL PIPELINE PUMP NGL PIPELINE PUMP NGL Pump Suction Damper
/				0081-57-2 0081-57-3 0081-57-4	NGL Pump Discharge Damper NGL Pump Suction Damper NGL Pump Discharge Damper
. PUWER				0081-1-43	Instrument System Wet Air Instrument Air Receiver
	N 8±00' 0"			0081-1-38 0081-4-101 0081-4-101-1	Vessel - INSTRUMENT AIR RECEIVER AIR COMPRESSOR AIR COMPRESSOR (SPARE) AIR COMPRESSOR (SPARE)
	n.0700-0			0081-39-11 0081-39-11-1 0081-39-12	INSTRUMENTAIR PREFIL LEK 1 INSTRUMENTAIR PREFIL TER 2 PARTICULATE AFTER FILTER PRESICATE AT AID DAYED
				0084 4 34	EVEL SAS SCOLUBER
ACO				0001+1-34	Flare System
				0081-1-18 0081-10-7 0081-5-9-A	FLARE SEPARATOR FLARE SEPARATOR PUMP EMERGENCY FLARE BLOWER FAN MOTOR
		RC	IGH-ALL		PLI-MCB-0001
	Chevron		Ch	6\/r	
			L L L		
AND	APPROVED:	DATE	UCONTINENT A		
	CHECKED:			DUCKE	TE COZ PLANT
OR	TFS DESIGNED:	12/97			A PLOT PLAN
	DJS	6/96	EST. NO.:	N	D-0081-72-001 8

Received by OCD: 8/31/2023 2:13:26 PM PHYSICAL SETTING SOURCE MAP - 7236567.2s

SITE NAME: Buckeye CO2 Plant ADDRESS: Lea County, NM	CLIENT: Portnoy Environmental, Inc. CONTACT: Alan Hopkins
Lovington NM 88260	INQUIRY #: 7236567.2s
LAT/LONG: 32.786453 / 103.510607	DATE: January 27, 2023 6:53 pm
Keicasea io imaging: 3/0/2023 2:09:09 FM	Copyright © 2023 EDR, Inc. © 2015 TomTom Rel. 2015.

<form></form>	eived by OCD: 8/31/2023 2:13:26 PM	Page 24 of 4	
Preference br., same Fe, NM SUDDRY NOTICES AND REPORTS ON WELLS 6. State Oil & Gas Lease No. (monor USE THIS FORM FOR PROPOSALS TO DEILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name VACUUM GRAYBURG SAN ANDRES 1. Type of Well: Oil Well Gas Well Other : INJECTION 8. Well Number 18	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	Form C-103 Revised July 18, 2013 WELL API NO. 30-025-24317 5. Indicate Type of Lease STATE FEE	
DONOTUBE THIS BOARDAR PRODUCTION TO DEFENDENCE TO ALL I. ACULUM GRAYBURG SAN ANDRES DONOTUBE THIS BOARDAR PROPERSATION DEFENDENCE I. ACULUM GRAYBURG SAN ANDRES I. Type of Well: Oil Well Gas Well Other : INJECTION 8. Well Number 18 VACUUM GRAYBURG SAN ANDRES 9. OGRID Number 4323 I. Type of Well: Oil Well Gas Well 9. OGRID Number 4323 Address of Operator 9. ORDID Number 4323 10. Pool name or Wildcat G3D IDAUVILLE BLVD, MIDLAND, TX 79706 VACUUM GRAYBURG SAN ANDRES 4. Well Location	District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS	 6. State Oil & Gas Lease No. 7. Lease Name or Unit Agreement Name 	
1. Type of Weil: Old Weil: Other : INJECTION 8. Well Number 18 2. Name of Operator 9. OGRID Number 4323 CHEYRON U.S.A. INC. 10. Pool name or Wildcat 3. Address of Operator 10. Pool name or Wildcat G301 DEAUVILLE BLVD, MIDLAND, TX 79706 VACUUM GRAYBURG SAN ANDRES 4. Well Location 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING MULTIPLE COMPL OOMHOLE COMMINGLE COMMENCE ORILLING OPNS PULL OR ALTER CASING MULTIPLE COMPL OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of rating any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion. VOSAU 18 Workover Summary 37-3/20/18: MIRU. Pull packer and tubing. • MIRU. Pull packer and tubing. SEE RULE 19.15.7.14 N	(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.)	VACUUM GRAYBURG SAN ANDRES UNIT	
2. Name of Operator 9. OGRID Number 4323 CHEVRON U.S.A. INC. 10. Pool name or Wildcat G301 DEAUVILLE BLVD, MIDLAND, TX 79706 VACUUM GRAYBURG SAN ANDRES 4. Well Location 10. Pool name or Wildcat Unit Letter_K_::1330_feet from theSOUTH_ line and _1330_feet from theWEST_line Section 1 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) Section II Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) ILevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) ILevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) ILevation (Show whether DR, RKB, RT, GR, etc.) Section II Elevation (Show Whether DR, RKB, RT, GR, etc.) Section Colspan="2">Other Colspan="2">Section Colspan= 2" <td colspan<="" td=""><td>1. Type of well: Oil well Gas well Other : INJECTION</td><td>8. Well Number 18</td></td>	<td>1. Type of well: Oil well Gas well Other : INJECTION</td> <td>8. Well Number 18</td>	1. Type of well: Oil well Gas well Other : INJECTION	8. Well Number 18
3. Address of Operator 10. Pool name or Wildcat G301 DEAUVILLE BLVD, MIDLAND, TX 79706 10. Pool name or Wildcat 4. Well Location VACUUM GRAYBURG SAN ANDRES 4. Well Location 1 Unit Letter_K_: 1330_feet from theSOUTH line and1330_feet from theWESTline Section 1 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON PULL OR ALTER CASING PULL OR ALTER CASING ALTERING CASING COMMENCE DRILLING OPNS: P AND A DOWNHOLE COMMINGLE COMMENCE DRILLING OPNS: PAD A IDERTOP OF STEM OTHER: UPGRADE WELL & START WAG INJECTION 13. Describe proposed or completed operations. (Clearly state all pertinent datals, 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. VCGSAU 18 Workover Summary 3/7-3/20/18: • • MIRU. Pull packer and tubing. • Set RBP @ 1500' and upgrade wellhead for WAG injection. <t< td=""><td>2. Name of Operator CHEVRON U.S.A. INC</td><td>9. OGRID Number 4323</td></t<>	2. Name of Operator CHEVRON U.S.A. INC	9. OGRID Number 4323	
4. Well Location Unit Letter_K_: 1330_feet from theSOUTH line and1330_feet from theWESTline Section 1 Township 18-S Range 34-E NMPM County LEA 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS PULL OR ATTER CASING MULTIPLE COMPL COSED-LOOP SYSTEM COMMENCE DRILLING OPNS. PULL OR ATTER CASING MULTIPLE COMPL COSED-LOOP SYSTEM OTHER: UPGRADE WELL& START WAG INJECTION OTHER: USANDE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION 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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Set RBP @ 1500' an	3. Address of Operator 6301 DEAUVILLE BLVD, MIDLAND, TX 79706	10. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES	
Section 1 Township 18-S Range 34-E NMPM County LEA 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,993' (GL) 12. 13. 12. 13. 14.	4. Well Location Unit Letter K : 1330 feet from the SOUTH line and	1330 feet from the WEST line	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3.993' (GL) 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PEFFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS ALTERING CASING PULL OR ALTER CASING CHANGE PLANS OTHER: UPGRADE WELL & START WAG INJECTION COSDU-LOOP SYSTEM CHANGE PLANS OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION I.3. Describe proposed or completions. CICearly 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. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and test packer @ 4216', test casing - good. 6. Set 2P ^M RBP @ 1500' and upgrade wellhead for WAG injection. Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. <t< td=""><td>Section 1 Township 18-S Range 34</td><td>I-E NMPM County LEA</td></t<>	Section 1 Township 18-S Range 34	I-E NMPM County LEA	
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 COMMENCE DRILLING OPNS CLOSED-LOOP SYSTEM OTHER: UPGRADE WELL & START WAG INJECTION OTHER: VORSAU 18 Workover Summary 3/7-3/20/18: Image: Start WAG INJECTION Starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Image: Start WAG INJECTION Starting any proposed work). SEE RULE 19.15.7.14 NMAC to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. Perform 10,000 gal 15% NEFE HCI treatment under packer. POOH with packer	11. Elevation (Show whether DR, RKB, RT, GR, etc. 3 993' (GL)		
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. P AND A PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB COMMENCE DRILLING OPNS. P AND A DOWNHOLE COMMINGLE COSED-LOOP SYSTEM OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION INSTRUCTION 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. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Set RBP @ 4240' and test packer @ 4216', test casing - good. Set Set "RBP @ 1500' and upgrade wellhead for WAG injection. Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. Perform 10,000 gal 15% NEFE HCI treatment under packer. POOH with packer Perform 10,000 gal 15% NEFE HCI treatment under packer. POOH with packer RIH w/ packer and test casing, 550 psi for 30 minutes. RDMO.			
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS OTHER: PULL OR ALTER CASING MULTIPLE COMPL COMMENCE DRILLING OPNS. P AND A DOWNHOLE COMMINGLE MULTIPLE COMPL CASING/CEMENT JOB P AND A DOWNHOLE COMMINGLE OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPGRADE WELL & START WAG INJECTION 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. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. • Set RBP @ 4240' and test packer @ 4216', test casing - good. Set RBP @ 1500' and upgrade wellhead for WAG injection. • Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. • Perform 10,000 gal 15% NEFE HCI treatment under packer. POOH with packer RIH w/ packer and test casing, 550 psi for 30 minutes. RDMO. The well will return to injection on water and then placed on WAG injection. The well will return to injection on water and then placed on WAG injection.	12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data	
OTHER: UPGRADE WELL & START WAG INJECTION □ OTHER: UPGRADE WELL & START WAG INJECTION ⊠ 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. VGSAU 18 Workover Summary 3/7-3/20/18: • • MIRU. Pull packer and tubing. • Set RBP @ 4240' and test packer @ 4216', test casing - good. • Set 2nd RBP @ 1500' and upgrade wellhead for WAG injection. • Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. • Add perforations in the San Andres from 4329-4737' as shown in WBD attached. • Perform 10,000 gal 15% NEFE HCl treatment under packer. POOH with packer • RIH w/ packer and test casing, 550 psi for 30 minutes. RDMO.	NOTICE OF INTENTION TO: SUB PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WOR TEMPORARILY ABANDON CHANGE PLANS COMMENCE DR PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN DOWNHOLE COMMINGLE COMMINGLE CASING/CEMEN	BSEQUENT REPORT OF: RK ILLING CASING ILLING OPNS. P AND A T JOB ILLING	
 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. VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Set RBP @ 4240' and test packer @ 4216', test casing - good. Set 2nd RBP @ 1500' and upgrade wellhead for WAG injection. Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. Perform 10,000 gal 15% NEFE HCl treatment under packer. POOH with packer RIH w/ packer and test casing, 550 psi for 30 minutes. RDMO. The well will return to injection on water and then placed on WAG injection. 	OTHER: UPGRADE WELL & START WAG INJECTION OTHER: UPG	GRADE WELL & START WAG INJECTION	
 VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Set RBP @ 4240' and test packer @ 4216', test casing - good. Set 2nd RBP @ 1500' and upgrade wellhead for WAG injection. Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. Perform 10,000 gal 15% NEFE HCl treatment under packer. POOH with packer RIH w/ packer and test casing, 550 psi for 30 minutes. RDMO. 	 Describe proposed or completed operations. (Clearly state all pertinent details, an of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Co- proposed completion or recompletion. 	d give pertinent dates, including estimated date mpletions: Attach wellbore diagram of	
The well will return to injection on water and then placed on WAG injection.	 VGSAU 18 Workover Summary 3/7-3/20/18: MIRU. Pull packer and tubing. Set RBP @ 4240' and test packer @ 4216', test casing - good. Set 2nd RBP @ 1500' and upgrade wellhead for WAG injection. Pull RBPs and cleanout well, tag at 4250' and cleanout to 4750'. Add perforations in the San Andres from 4329-4737' as shown in WBD attached. Perform 10,000 gal 15% NEFE HCl treatment under packer. POOH with packer RIH w/ packer and test casing, 550 psi for 30 minutes, RDMO. 		
The well will return to injection on water and then placed on WAG injection.			
	The well will return to injection on water and then placed on WAG injection.		
Spud Date: Rig Release Date:	Spud Date: Rig Release Date:		
I hereby certify that the information above is true and complete to the best of my knowledge and belief.	I hereby certify that the information above is true and complete to the best of my knowledge	ge and belief.	
SIGNATURE TITLE Production Engineer DATE3/27/18	SIGNATURE	DATE3/27/18	
Type or print name _Michael Stewart E-mail address:michael.stewart@chevron.com PHONE: _432-687-7431	Type or print name _Michael Stewart E-mail address:michael.stewart@che	vron.comPHONE: _432-687-7431	
APPROVED BY: Maley Strown TITLE AO/II DATE 3/28/2018 Conditions of Approval (if any):	APPROVED BY: Maley Strawn TITLE AO/IL	DATE 3/28/2018	

Released to Imaging: 9/6/2023 2:09:09 PM RBDMS - CHART -

August 2023

ATTACHMENT B

ON-SITE DRAIN DRAWINGS

26

Page

				PM
E 4				60:
E				2:09
	WASTE WATER DISPO	DSAL LINE	2"DR-363-A75 T0 54-1 SEE DWG 20-041	6/2023
			OPS DOC # BCYGP-UTIL1-PRO-PID-MCB-0003	ng: 9/
-	N	IORN	NINGSTAR OPERATING, LLC FORT WORTH, TEXAS	Imagi
J nent,	APPROVED:	DATE:	BUCKEYE CO2 PLANT	id to
	MA DESIGNED:	8/6/96	FLARE SYSTEM	ase
	- DRAWN: PJT	- 7/9/96	LEA COUNTY, NEW MEXICO EST. NO.: 66-2052 NO.: 66-2052 NO.: 824LE DWG. NO.: D-0081-20-029 33	Relé

GENERAL NOTES:		REVISIONS							REFERENCE	E DRAWINGS			
	MK.	DESCRIPTION DAT	TE E	3Y	APPR	MK.	DESCRIPTION	DATE	BY	APPR	DRAWING NO.	DRAWING NO.	
. SPARE CONNNECTION FOR FUTURE ADDITION OF SPARE PUMP.	9	ISSUED FOR DESIGN 12/30/)/97 G	LO	MA	17	AS-BUILT	04/28/17	OHS	-		-	
	10	ISSUED FOR HAZOP 01/23/	5/98 D	DK	MA	18	REVISED PER CVX REDLINES, MOC #461390	02/08/19	EV	KPMJ	-	-	l Z-Cat
	11	ISSUED FOR CONSTRUCTION 02/23/	3/98 G	ilo	MA	19	AS-BUILT PER FIELD WALKDOWN, MOC #599009	06/07/19	EV	1	-	-	Engineering and Project Manageme
	12	REVISED AS NOTED 03/03/	3/98 G	ilo	MA	20	AS-BUILT AS PER CVX REDLINES, MOC 818389 LTI DRF #21278	10/18/21	ISP	DZKI	-	-	
	13	REVISED AS NOTED 05/26/	5/98 H	<b< td=""><td>-</td><td>21</td><td>AS-BUILT PER MOC REDLINES, MOC #857355 BD, DRF #21435</td><td>12/21/21</td><td>DLL</td><td>DZKI</td><td>-</td><td>-</td><td></td></b<>	-	21	AS-BUILT PER MOC REDLINES, MOC #857355 BD, DRF #21435	12/21/21	DLL	DZKI	-	-	
	14	REVISED AS NOTED 10/27/	7/99 0	ЭН	-	22	REVISED AS NOTED	09/21/22	SJH	JAT	-	-	IEAAS ENGINEERING FIRM F=23024
	15	ADDITION 0081-4-217, HPF #14026 (IFA) 1/25/	/16 MT	TWC	JAC	-	-	-	-	I	-	-	
	16	ADDITION 0081-4-217, HPF #14026 (IFC) 04/08,	в/16 М1	TWC	JAC	-	-	-	-	1	-	-	

FIM# BCYGP-DTEG-PRO-PID-MCB-0009

	N	MORNINGSTAR OPERATING, LLC FORT WORTH, TEXAS										
)	APPROVED:	DATE:	TITLE:									
ent	-	-		KFYF	CO2 PLANT							
ciių	CHECKED:	8/6/96		NDR/	IN SYSTEM							
	DESIGNED:	-	PIPING & INS	IRUM	ENTATION DIAGRAM							
	DRAWN: PJT	7/23/96	EST. NO.: 66-2052	SCALE NONE	D-0081-20-041	REV. 22						

Released to Imaging: 9/6/2023 2:09:09 PM

August 2023

ATTACHMENT C

C-101 FORMS

Keleased to Imaging: 9/6/2023 2:09:09 PM

General Facility Information

rator: us: nict: nity: are Location lace Location rare: rer-Quarter: ctions:
--

Notes

This facility was registered on 11/30/2021 by revios for CHEVRON U S A INC [4323] (action id: 64324).

Submit to Appropriate	_	State of New M	lexico		
Suite Lease - 6 copies Fee Lease - 5 copies	Energy	, Minerals and Natural F	Resources Department		Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbe N	OIL NOAD	CONSERVATION PO Box 20	ON DIVISION	API NO. (assigned by O	CD on New Wells)
DISTRICT II		Santa Fe, New Mexico	87504-2088	Stores	5-31833
P.O. Drawer DD, Artesia	, NM 88210				STATE X FEE
1000 Rio Brazos Rd., Az	lec, NML 87410			6. State Oil & Gas Leas B-	• Na. -1520-1
APPLICA	TION FOR PERMIT	TO DRILL, DEEPEN,	OR PLUG BACK		
DRI	L X RE-ENTE			7. Lease Name or Unit	Agreement Name
b. Type of Well: OIL OIL OAS WELL WELL		A C DELITING ANNULA ANNULA 2018		VACUUM GLORI	ETA WEST UNIT
2. Name of Operator TEXACO EXPLOR	ATION AND PRODUCT	TION INC.		8. Well No.	
3. Address of Operator				9. Pool same or Wildcat	4
P. O. BOX 3109	, Midland, Texas	79702		VACUUM GLORI	ETA
Unit Letter _L	: 1410 Feet 1	From The SOUTH	Line and1300	Feet From The	WEST Line
Section	24 Town	thin 17-SOUTH P.			
			in manna		
		10. Proposed Depts	3307°		12. Rotary or C.T.
13. Elevations (Show what	wer DF, RT, GR, etc.)	4. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx	Date Work will stast
<u>GR-4011²</u> 17.		BLANKET	TMBR/SHARP	DEC	EMBER 30, 1992
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	ND CEMENT PROGI	RAM	For Top
		WEIGHT ENTOOT	OCTING OEF IN	SACKS OF CEMENT	ESI. IOP
7 7/8	<u> </u>	24# 15 5# 8 17#	1550'	650	SURFACE
			0307	1700	SURFACE
K Caci2 (14.8ppg, RODUCTION CASING V TOOL @ 5000' - , 10.4gw/s). F/B OBIL OPERATES A V VORTHODOX LOCATH PROVAL FOR THE / IN ABOVE SPACE DESX	1.34cf/s, 6.3gw/s - 1st STG: 350 SX 2nd STG: 1250 SX 100 SX CLASS H (1) WELL IN THIS QUART ON - GRANTED UNDE AMENDED LOCATION CRIBE PROPOSED PROOF). CLASS H w/ 1/4# FL 35/65 POZ CLASS H v 5.6ppg, 1.18cf/s, 5. ER QUARTER SECTION R ORDER NO. R-9714 HAS BEEN FILED IN S/	OCELE (15.6ppg, 1 w/ 6% GEL, 5% SALT 2gw/s). I AND HAS BEEN FUR . LOCATION WAS MC ANTA FE. (COPY ATT	18cf/s, 5.2gw/s). 18cf/s, 5.2gw/s). 8 1/4# FLOCELE (NISHED A COPY OF T VED BECAUSE OF A ACHED) PRESENT PRODUCTIVE ZONE AN	12.8ppg, 1.94cf/ HIS APPLICATION. PIPELINE.
I hereby certify that the inform	ution above is true and complete	to the best of my knowledge and	beliaf.		
SIGNATURE	. Basham/cwt	m	BRILLING OPERATION	ONS MANAGER	12-17-92
TYPE OR PROT NAME C. P	BASHAM	······		TEL	дунома но. (915) 688-46
(This space for State Use) OR	Iginal Signad By Ji Defended i de M	ERRY SEXTON	8	DAT	JAN LA 1000
CONDITIONS OF APPROVAL, P	ANT:				
eleased to Imaging:	97612023_2:09:09 PN	714	Permi Date	: Expires & Mont Unless Driking U	ha From App roval nderway.

Received by OCD: 8/31/2023 2:13:26 PM Page 32 of 45 State of New Mexico Submit to Appropriate District Office Energy, Minerals and Natural Resources Department Form C-102 State Lease - 4 copies Revised 1-1-89 Fee Lease - 3 copies **OIL CONSERVATION DIVISION** DISTRICT I P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 Santa Fe. New Mexico 87504-2088 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aziec, NM 87410 All Distances must be from the outer boundaries of the section Operator Lease TEXACO EXPL. AND PROD. Inc. Well No. VACUUM GLORIETA WEST UNIT 4 Unit Letter Section Township Range Τ. County 24 17-South 34-East Lea Actual Footage Location of Well-NMPM 1410 South feet from the 1300 line and West Ground level Elev. feet from the **Producing Formation** line Pool Dedicated Acreage: 4011 Glorieta; Paddock Vacuum Glorieta Pool 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 40 Acres 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, 🚽 Yes No If answer is "yes" type of consolidation Unitization If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. O OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Name وجهو بغار بحد بمغالبتها Royce D. Mariott Position Division Surveyor Company Texaco Expl. & Prod. Date <u>December 11, 1992</u> SURVEYOR CERTIFICATION -0 Ac. I hereby certify that the well location shown on this plat was platted from field notes of Brdg. St 2 actual surveys made by me or under my #116 supervison, and that the same is true and 852. 915. correct to the best of my knowledge and 1300 belief. Date Surveyed -----Mobil's # 198. November 30, 1992 5 ⁰ 102' South Signature & Seal of ogic Professional Surveyor 0 6 A 8 100 Certificate No. 6 **************** 7254 John S. Piper 0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 Lea Co. FB. 500 6, Pq. 62 Û

Released to Imaging: 9/6/2023 2:09:09 PM

Texaco USA Producing Department Midland Division PO Box 3109 Midland TX 79702-3109

December 17, 1992

<u>GOV - STATE AND LOCAL GOVERNMENTS</u> Unorthodox Locations Vacuum Glorieta West Unit Well Nos. 4, 41, 68, 82, and 92 Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501-2088

Attention: Mr. David R. Catanach

Gentlemen:

Texaco Exploration and Production Inc. respectfully submits, for administrative approval, amended drilling locations for the captioned injection wells under Order No. R-9714.

Well Nos. 4, 41, and 68 were moved because of pipelines. Well No. 82 was moved because of an electric line. Well No. 92, permitted December 3, 1992, had to be moved because of topography. This move will avoid making a four foot cut to build the location.

Attached are Forms C-102 and a "detail" drawing showing the amended locations for each well.

Yours very truly,

C.P. Basham / CWH

C. P. Basham Drilling Operations Manager

CWH: cwh

cc:NMOCD, P. O. Box 1980, Hobbs, NM 88240

OCD: 8/31/2023 2:13:26 PM	, TEXACO EXPLORATION AND PRODUCT AND AND PRODUCT AND AND PRODUCT AND
PIPER SURVEYING COMPANY	SHEET NO 1 OF2
P.O. Box 60432 MIDLAND TEXAS 79711	CALCULATED BY O. Flores DATE 12/14/92
(915) 550-7810	CHECKED BYJ_SPiper DATE12/14/92 SCALE1"=50 Feet

-	20		
Page	36	01	• 45

- Submit to Appropriate District Office	Energy, N	State of New Mex finerals and Natural Res	ico ources Department		Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM DISTRICT I P.O. Dox 1980, Hobbs, NM DISTRICT II P.O. Drawer DD, Artesia, N	OIL C 88240 Sa M 88210	ONSERVATIO P.O. Box 2088 nta Fe, New Mexico 8	N DIVISION 3 7504-2088	API NO. (assigned by (<u>30-02</u> 5. Indicate Type of Le	XCD on New Wells) 15-31708 STATE X
DISTRICT III	NM 87410			6. State Oil & Gas Les	ые No. B-2146
	ON FOR PERMIT TO	D DRILL, DEEPEN, O	R PLUG BACK		
Type of Work: DRILL	X RE-ENTER	DEEPEN		7. Lesse Name or Uni VACUUM GLOF	RETA WEST UNIT
OL OAS WELL	OTHER WATER INJE	ECTION ZONE		8. Well No.	
Name of Operator TEXACO EXPLORA	TION AND PRODUCTIK	DN INC.			79
Address of Operator				9. Pool same or Wild	RIETA
Well Location Unit Letter K Section 30	: <u>2561</u> Feet Fr 6 Toward	an The SOUTH	Line and1351	Feet From The NMPM LEA	WEST Lise
		10. Proposed Depth		Formation	12. Rotary or C.T.
		6	300'	GLORIETA/PADDOC	K ROTARY
3. Elevations (Show whethe GR-4004'	r DF, RT, GR, etc.) 14	4. Kind & Status Plug. Bond BLANKET	15. Drilling Contract TO BE SELECT	ED SE	PTEMBER 15, 1992
7.	PR	OPOSED CASING AN	ID CEMENT PROC	RAM	NT EST. TOP
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	40'	REDI-MIX	SURFACE
11	8 5/8	24#	1550'	500	SURFACE
7 7/8	5 1/2	15.5#	6300'	1300	
MENTING PROGRAM RFACE CASING - 3 Caci2 (14.8ppg, ODUCTION CASING TOOL @ 5000' - 4gw/s). F/B 250 HERE ARE NO OTHE ORTHODOX LOCATI	I: CONDUCTOR - REE 100 SX CLASS C w/ 1.34cf/s, 6.3gw/s - 1st STG: 300 SX (2nd STG: 750 SX 35 0 SX CLASS H w/ 1/ R OPERATORS IN THE ION - EXCEPTION HAS	NMIX. 4% GEL & 2% CacL2). CLASS H w/ 1/4# FL 5/65 POZ CLASS H w /4# FLOCELE (15.6p) S QUARTER QUARTER S BEEN REQUESTED ((13.5ppg, 1.74cf, OCELE (15.6ppg, / 6% GEL, 5% SAL og, 1.18cf/s, 5.2 SECTION. COPY ATTACHED).	/s, 9.1gw/s). F/B 1.18cf/s, 5.2gw/ T & 1/4# FLOCELE gw/s).	200 SX CLASS C w/ s). (12.8ppg, 1.94cf/s,
IN ABOVE SPACE DES ZONE. GIVE BLOWOUT PREV	CRIBE PROPOSED PROG	RAM: PROPOSAL IS TO DEEP	EN OR PLUG BACK, GIVE DAT.		
I hereby certify that the isfor	P Rosher (aut		DRILLING OPER	ATIONS MANAGER	DATE09-02-92
SIONATURE C	P. BASHAM				TELEPHONE NO. (915) 688-
(This space for State Han)	AL MONED BY JERRY	SEXTON PR T	ΠLB		OCT 2
APPROVED BY	F ANY:		Parmit	Expires 6 Mont	hs From Approval

Released to Imaging: 9/6/2023 2:09:09 PM

Permit Expires 6 Months From Approval Date Unless Drilling Underway.

August 2023

ATTACHMENT D

INSPECTION LOG

Date & Time Important or Ger	ne Reason	Equipment/Vessel	Description	Created By
5/11/22 20:30 General	Inspect/Test	Compressor 211;#See Comments	Vanzandt arrived to make sure the part fit correctly	Ryan Woolsey
5/16/22 9:00 Important	Inspect/Test	H2S and LEL alarms	H2S and LEL alarms tested	(d) Rosa Crews
5/20/22 15:30 Important	Inspect/Test	Compressor 213	Pressure tested C213	Jose Pineda
5/24/22 9:00 General	Swap/Change/Replace;#Inspect/Test	NGL Pumps	Triple H arrived to work on NGL pumps	Ryan Woolsey
5/24/22 12:30 General	Swap/Change/Replace;#Inspect/Test	NGL Pumps	Starting work on east NGL pump	Ryan Woolsey
6/5/22.8:30 Important	Open/Close:#Isolate/De-isolate:#Inspect/Test	TEG Rich Particulate Filters	Stem of south rich filter inlet valve blew out while filling the filter. Filters were bypassed and inlet and outlet were closed. Once all pressure and flow dropped the stem was hammered back into valve to close it. inlet and outlet were slowly opened then slowly closed the bypass. nothing appeared to be coming through the valve so the north filter was put back in service and the south is isolated and out of service until repairs can be made.	Rvan Woolsey
6/7/22 8:30 General	Start /On: #Inspect /Test	Refrigerant Condenser: #See Comments	Reset the Erefingerant fan to clear vibration alarm	Ryan Woolsey
6/7/22 8:30 General	Suan /Change/Replace:#Inspect /Test	NCL Filter	Changed filter and tecting for looks	Ryan Woolcov
6/7/22 9.30 Important	Inspect/Test	NGL Filter	Changed lifter and testing for reaks	Kyall WOOlsey
6/8/22 13:38 Important		See Comments	Copper strip in the oven	Jose Pineda
6/8/22 14:39 Important	Inspect/Test	See Comments	Copper strip to good 20	Jose Pineda
6/8/22 15:25 Important	Inspect/Test	See Comments	Copper strip in the oven	Jose Pineda
6/8/2216:25 Important	Inspect/Test	See Comments	Copper strip test good 10	Jose Pineda
6/9/2211:11 Important	Inspect/lest	See Comments	Cooper strip in the oven.	Joshua Urias
6/9/2212:30 Important	Inspect/lest	See Comments	Copper strip tested good. A1.	Joshua Urias
			we tested the middle additive pump and couldn't build up to PSI. we scheduled triple	
6/17/22 9:00 General	Inspect/Test	Additive Pumps	n to come out and work on it.	Gil Cordero
6/18/22 9:30 Important	Inspect/Test;#Shutdown/Oπ	Compressor 211	shut off do to knocking on cylinder #2	Gil Cordero
6/27/22 21:24 Important	Start/On;#Inspect/Test	Compressor 207	Restarted C207 to shoot temps.	Joshua Urias
6/20/22 7:00 Conoral	Increast /Tect. #Dull Semple: #Deport	SocCommonts	Guys to perform enviromental testing arrived to start work	Byon Moolcov
7/12/22 11:15 Important	Inspect/Test,#Puil Sample,#Report	See Comments	Connerstrip in the over	
7/12/22 11:15 Important		See Comments		
	Inspect/Test	see comments	Luan did traublesheet on LL 752 (level for propens surge tank) and get it working	JOSHUA UHAS
7/14/22 8:00 General	Inspect/Test	Compressor 201;#Refrigerant Surge Drum	normal again. Juan also fixed the bad reading on PIC-1726	Gil Cordero
7/14/22 15:00 Important	Inspect/Test	PRC Reflux Condensers;#Refrigerant Surge Drum	Juan fixed the propane surge drum and worked the timing on the reflux condenser level control transmitters LIC-768 and LIC-1768 to help with valve output fluctuation.	Gil Cordero
8/2/22 9:00 General	Swap/Change/Replace;#Inspect/Test	NGL Pumps;#Additive Pumps	Triple H arrived to work on North additive and east NGL pump	Ryan Woolsey
8/2/22 9:30 General	Swap/Change/Replace;#Inspect/Test	NGL Pumps	Triple H finished work on east NGL pump. Swapped to east to check status and is no longer leaking from packing. West put back into service	Ryan Woolsey
8/8/22 13:45 Important	Inspect/Test/Pull Sample	See Comments	Pulled a sample from the discharge/outlet of the plant back to field. Found there to be a black sludge.	Gilbert Urias
8/17/22 13:30 Important	Inspect/Test/Pull Sample	NGL to Inlet valve	currently out of service due to oneOK doing maintenance on line. Removed spool on our side and spool on oneOKs side for pressure testing.	Jorge Chavez (c)
8/18/22 10:45 Important	Inspect/Test/Pull Sample	NGL Pumps	Pressure test NGL line from pumps to lact unit 300# used 6 Nitrogen bottles	Charles Tolsma
8/19/22 18:30 Important	Inspect/Test/Pull Sample	Copper Strip	Copper strip tested 1a	Gilbert Urias
8/26/22 10:00 General	Inspect/Test/Pull Sample;#Report	Reflux Pumps	Triple H arrived to get measurements on reflux pump	Ryan Woolsey
8/26/22 12:00 General	Inspect/Test/Pull Sample	Compressor 213;#See Comments	Braybeth finished work on 3rd stage bypass and is ready to test	Ryan Woolsey
8/26/22 12:30 General	Inspect/Test/Pull Sample	Compressor 213;#See Comments	Test on 3rd stage bypass valve was good and held 800#	Ryan Woolsey
8/30/22 7:30 General	Inspect/Test/Pull Sample	Compressor 209;#See Comments	Mechanics arrived to work on c209	Ryan Woolsey

			Brandon and clark arrived to pickup new 3rd stage motor that was single speed rather	
8/30/22 9:00 General	Inspect/Test/Pull Sample;#Swap/Change/Replace	CO2 Coolers	than 2	Ryan Woolsey
8/30/22 15:30 General	Inspect/Test/Pull Sample;#Swap/Change/Replace	Reflux Pumps	Triple H arrived to pick up North reflux pump motor and pump	Ryan Woolsey
9/27/22 8:00 General	Inspect/Test/Pull Sample	H2S/LEL Monitors	Legacy safety is here to test H2S and LEL Monitors	Jimmie Ogas
10/5/22 19:55 Important	Inspect/Test/Pull Sample	Copper Strip	Copper strip in the oven	Joshua Urias
10/5/22 20:55 Important	Inspect/Test/Pull Sample	Copper Strip	1A on copper strip	Joshua Urias
10/21/22 13:21 General	Inspect/Test/Pull Sample	Compressor 213	Pressure testing 213	Gilbert Urias
10/25/22 6:00 General	Change/Replace/Repair;#Inspect/Test/Pull Sample	Compressor 207	Mader arrived to continue work on c207	Ryan Woolsey
10/25/22 13:30 General	Inspect/Test/Pull Sample	Hydrocarbon Bucket;#TEG Surge Tank:#Hot Oil Surge Drum	Pantechs arrived to retrieve hot oil and teg samples	Rvan Woolsev
10/27/22 20:55 Important	Inspect/Test/Pull Sample	Copper Strip	Bomb in the oven	Joshua Urias
10/27/22 21:55 Important	Inspect/Test/Pull Sample	Copper Strip	1A on copper strip	Joshua Urias
10/31/22 12:55 Important	Inspect/Test/Pull Sample	Compressor 213	Pressure tested 213, looks good	Gilbert Urias
11/1/22 10:00 Important	Inspect/Test/Pull Sample	Compressor 209	Pressure test	Clay Harris
11/3/22 10:00 Important	Inspect/Test/Pull Sample	See Comments	APC is working on heat trace to make sure everything is working	Gil Cordero
11/16/22 8:00 Important	Inspect/Test/Pull Sample	Compressor 209	Onen valves and Pressure test 1st stage	Charles Tolsma
11/17/22 18:50 Important	Inspect/Test/Pull Sample	See Comments	went and checked personally and made sure nilot #2 was on	lorge Chavez (c)
11/19/22 12:00 Inspection	Inspect/Test/Pull Sample	See Comments	Inspected Flare pilots	Jose Pineda
11/22/22 20:00 Inspection	Inspect/Test/Pull Sample	Flare Senarator	inspected ride prots	Gil Cordero
11/23/22 8:45 Inspection	Inspect/Test/Pull Sample	See Comments	Flare Pilot #2 alarm Pilots were inspected to confirm they are working	lose Pineda
11/23/22 10:12 Inspection	Inspect/Test/Pull Sample	See Comments	Flare Pilot #2 alarm. Pilots were inspected to confirm they are working	Jose Pineda
11/24/22 21:42 Inspection	Inspect/Test/Pull Sample	See Comments	Flare nilot #2 alarm came in Verified nilot was operating correctly	
11/24/22 21:42 Inspection	Inspect/Test/Pull Sample	See Comments	Flare Pilot #2 alarm Verified pilot was operating correctly	Joshua Urias
11/24/22 20:27 Inspection	Inspect/Test/Pull Sample	See Comments	Flare nilot #2 alarm come in Verified nilot was operating correctly	Joshua Urias
	inspect/rest/run sample	See comments	Flare pilot #2 alarm came in Verified pilot was operating correctly. Alarm came in	JOSHUA OHAS
11/24/22 22:19 Inspection	Inspect/Test/Pull Sample	See Comments	repeatedly	Joshua Urias
11/26/22 21:30 General	Inspect/Test/Pull Sample	H2S Analyzer	Reset analyzer	Joshua Urias
11/27/22 2:00 Inspection	Inspect/Test/Pull Sample	See Comments	Flare pilot #2 alarm came in. Verified pilot was operating correctly.	Joshua Urias
			Flare pilot #2 alarm came in. Verified pilot was operating correctly. Alarm came in	
11/27/22 3:30 Inspection	Inspect/Test/Pull Sample	See Comments	repeatedly	Joshua Urias
11/29/22 9:30 General	Inspect/Test/Pull Sample	H2S Analyzer	Reset	Clay Harris
12/1/22 8:30 Inspection	Inspect/Test/Pull Sample	Fire Eyes	cleaned fire eyes and no smoke coming out vent.	Gil Cordero
12/1/22 8:30 Inspection	Inspect/Test/Pull Sample	See Comments	checked pilots to make sure they are working properly and they are.	Gil Cordero
	Change/Replace/Repair;#Open/Close;#Inspect/Test	TEG Contactor;#3-way Valve;#TEG Reboiler;#TEG Surge Tank;#TEG Pumps;#Dewpoint Analyzer;#Drizo	Started to lose temps and flows throughout the TEG and Hot oil system. TIC 230/235 and LIC247A and FI232 all went bad output and could not be controlled in DCS. All controllers closed and caused us to manually open and closed valves outside to try and control the TEG system. Finally resolved after jimmie came out and was walked	
12/1/22 20:00 Important	/Pull Sample	Pumps;#Hot Oil Pumps;#See Comments	through the process by a schneider tech.	Ryan Woolsey
12/2/22 10:30 Inspection	Inspect/Test/Pull Sample	See Comments	inspected all flare pilots.	Jorge Chavez (c)
12/2/22 16:30 Inspection	Inspect/Test/Pull Sample	See Comments	inspected hot oil heater and all three pilots.	Jorge Chavez (c)
12/2/22 12:00 Inspection	Inspect/Test/Pull Sample	TEG Contactor	ATP checked heat trace on contactor, bridles and levels	Jorge Chavez (c)
12/6/22 7:00 General	Inspect/Test/Pull Sample	See Comments	all pilots are good and burning.	Jorge Chavez (c)
12/6/22 7:00 General	Inspect/Test/Pull Sample	H2S Analyzer	worked on H2S analyzer and is now up and running.	Jorge Chavez (c)
12/7/22 9:30 Inspection	Inspect/Test/Pull Sample	#3	inspected all flare pilot and the are working good	Gil Cordero
· ·	· · · · · · · · · · · · · · · · · · ·			

	12/7/22 9:30 Inspection	Inspect/Test/Pull Sample	Hot Oil Heater;#Fire Eyes	inspected hot oil heater fire and check for smoke, all was good	Gil Cordero
	12/7/22 9:00 Important	Inspect/Test/Pull Sample	See Comments	FI-353 was calibrated	Gil Cordero
	12/7/22 10:00 Important	Inspect/Test/Pull Sample	See Comments	FIC-352 was calibrated	Gil Cordero
				WTA tried to calibrate FI-353 however he couldnt finish. he will be back some time	
	12/7/22 16:30 Important	Inspect/Test/Pull Sample	See Comments	next week with DCS expert to help calibrate.	Gil Cordero
	12/16/22 20:30 Inspection	Inspect/Test/Pull Sample	#1	all pilots working as they should	Gil Cordero
	12/17/22 0:00 Inspection	Inspect/Test/Pull Sample	#3		Jorge Chavez (c)
	12/20/22 14:00 General	Inspect/Test/Pull Sample	Compressor 209	purge and pressure test done on 209. leak found and gaskets need replacing.	Ryan Woolsey
Γ					
				209 leak fixed and bypass valve positioner issue resolved. started the unit but	
	12/20/22 15:30 General	Change/Replace/Repair;#Inspect/Test/Pull Sample	Compressor 209	common vibration alarm could not be cleared and it is thought that it is an eis issue	Ryan Woolsey
	12/21/22 8:11 Inspection	Inspect/Test/Pull Sample	Flare Pilot #3	Alarm for Flare pilot #3 came in. Verified that pilot was still working.	Jose Pineda
	12/21/22 20:30 General	Inspect/Test/Pull Sample	#3		Jorge Chavez (c)
	12/24/22 21:12 Important	Inspect/Test/Pull Sample	Copper Strip	Bomb in the oven	Joshua Urias
	12/24/22 22:15 Important	Inspect/Test/Pull Sample	Copper Strip	Bad test, liquid evaporated out of cylinder	Joshua Urias
	12/24/22 22:27 Important	Inspect/Test/Pull Sample	Copper Strip	Bomb in the oven	Joshua Urias
Γ	12/24/22 23:30 Important	Inspect/Test/Pull Sample	Copper Strip	1A on copper strip	Joshua Urias
	1/3/23 14:30 General	Inspect/Test/Pull Sample	See Comments	tech came to trouble shoot the Coriolis meter.	Gil Cordero
Γ	1/4/23 13:30 General	Inspect/Test/Pull Sample	See Comments	lab services came to pull samples	Gil Cordero
				cleaned fire eyes	
				inspected hot oil heater for smoke or abnormal conditions **NO abnormal	
	1/5/23 8:30 Inspection	Inspect/Test/Pull Sample;#Cleaned	Fire Eyes/Hot oil heater stack	conditions found**	Jimmie Ogas
Γ	1/11/23 8:30 General	Inspect/Test/Pull Sample	See Comments	Pull samples	Charles Tolsma
	1/18/23 10:30 Important	Inspect/Test/Pull Sample	See Comments	legacy came out to test and inspect sensor alarms on LELs and H2S	Jorge Chavez (c)
	1/20/23 7:30 General	Inspect/Test/Pull Sample	Phase 1;#See Comments	Lab services arrived to calibrate inlet.	Ryan Woolsey
	1/20/23 8:00 General	Inspect/Test/Pull Sample;#Change/Replace/Repair	Compressor 209	Apc arrived to work on vibration on c209	Ryan Woolsey
			Flare Pilot #1;#Flare Pilot #2;#Flare Pilot	Pilot alarms and pilot IR camera out alarms came in. Visually inspected flare for	
L	1/24/23 4:00 Inspection	Inspect/Test/Pull Sample	#3	proper pilot operations.	Joshua Urias
	2/2/23 8:00 Inspection	Inspect/Test/Pull Sample	See Comments	Lab services pull weekly samples	Charles Tolsma
L	2/2/23 9:00 General	Cleaned;#Inspect/Test/Pull Sample	Fire Eyes/Hot oil heater stack		Charles Tolsma
	2/8/23 18:30 General	Inspect/Test/Pull Sample;#Blowdown/ESD	Compressor 207	Pressure tested c207 3rd stage after valve replacement	Ryan Woolsey
	2/9/23 12:30 Important	Inspect/Test/Pull Sample	Inlet Feed Exchanger	lab services.	Jorge Chavez (c)
	2/9/23 19:30 Inspection	Inspect/Test/Pull Sample	#3	tested flare pilot and camera everything looked normal. flare remained lit	Gil Cordero
			Flare Pilot #1;#Flare Pilot #2;#Flare Pilot	inspected flare pilot again after pilots out alarm and everything still looks good. flare	
	2/10/23 4:00 Inspection	Inspect/Test/Pull Sample;#Setpoint Change	#3	remains lit. we did increase flower speed and fuel gas to flare.	Gil Cordero
	2/14/23 7:00 General	Inspect/Test/Pull Sample	#3	inspected	Miguel Venegas (c)
	2/14/23 7:00 Inspection	Inspect/Test/Pull Sample	See Comments	replace trasmiter pic 605 ,, and replace gauge on it	Miguel Venegas (c)
	2/15/23 8:00 Inspection	Inspect/Test/Pull Sample	#3	all pilots have been inspected	Jorge Chavez (c)
L	2/15/23 14:30 Important	Inspect/Test/Pull Sample	Compressor 213	moved around some tarps and plastics due to high winds	Jorge Chavez (c)
	2/15/23 13:30 Important	Inspect/Test/Pull Sample	See Comments	legacy came out to calibrate some LEL sensors	Jorge Chavez (c)
	2/17/23 3:09 Important	Inspect/Test/Pull Sample	Copper Strip	Bomb in the oven	Joshua Urias
	2/17/23 4:10 Important	Inspect/Test/Pull Sample	Copper Strip	1A on copper strip	Joshua Urias
	2/17/23 9:00 General	Inspect/Test/Pull Sample	Compressor 217	white tail arrived to remove shutdowns from scrubbers	Ryan Woolsey
	2/19/23 10:00 Important	Inspect/Test/Pull Sample	Compressor 213	pressure testing and de isolating 213 to have it available for startup if needed	Ryan Woolsey

		See Comments;#Flare Pilot #1;#Flare Pilot		
2/23/23 0:00 Inspection	Inspect/Test/Pull Sample	#2;#Flare Pilot #3	alarm came up for F813, confirmed everything was working right.	Jorge Chavez (c)
2/24/23 8:15 Important	Inspect/Test/Pull Sample	See Comments	TEAMS personel, arrive to test h2s analyzers, leaks,	Miguel Venegas (c)
2/26/23 9:00 General	Inspect/Test/Pull Sample	#3	test and inspect	Miguel Venegas (c)
2/28/23 3:30 Inspection	Inspect/Test/Pull Sample	See Comments	went and inspected after receiving alarm	Jorge Chavez (c)
2/28/23 4:10 Inspection	Inspect/Test/Pull Sample	#2	received and alarm for and pilots being out, went and inspected all pilots	Jorge Chavez (c)
2/28/23 16:05 Important	Inspect/Test/Pull Sample	Compressor 213	pressured tested ,,,ok ,everything fine	Miguel Venegas (c)
3/2/23 10:30 General	Cleaned;#Inspect/Test/Pull Sample	Fire Eyes/Hot oil heater stack		Charles Tolsma
3/2/23 11:45 General	Inspect/Test/Pull Sample	See Comments	Lab service here to get samples	Charles Tolsma
3/3/23 9:55 Inspection	Inspect/Test/Pull Sample	#3	Inspect flare pilots. All pilots on and working properly	Joshua Urias
3/10/23 10:00 Important	Inspect/Test/Pull Sample	Compressor 207	turn on to inspect cylinder to see if it was going to be needed to work on.	Jorge Chavez (c)
3/10/23 10:30 Important	Start/On;#Inspect/Test/Pull Sample	Compressor 209	turned on for testing proximity switch	Jorge Chavez (c)
3/17/23 5:30 Inspection	Inspect/Test/Pull Sample	#3	Verified flare pilots were working properly	Joshua Urias
3/22/23 19:30 Inspection	Inspect/Test/Pull Sample	#3	Inspect all flare pilots and verified pilots were lit.	Joshua Urias
3/23/23 20:00 Important	Inspect/Test/Pull Sample	See Comments	flare pilot camera out. went and inspected	Jorge Chavez (c)
		Flare Pilot #1;#Flare Pilot #2;#Flare Pilot	inspect flare pilots and all clear	
3/23/23 21:15 Inspection	Inspect/Test/Pull Sample	#3		Jorge Chavez (c)
3/25/23 20:30 General	Inspect/Test/Pull Sample	#3	inspected all flare pilots	Jorge Chavez (c)
3/27/23 20:30 Inspection	Inspect/Test/Pull Sample	Methanol Pumps	23in in the methanol tank	Jorge Chavez (c)
3/30/23 8:30 General	Inspect/Test/Pull Sample	See Comments	Lab services to pull samples	Charles Tolsma
3/31/23 9:30 Inspection	Inspect/Test/Pull Sample;#Cleaned	Fire Eyes/Hot oil heater stack	Cleaned fire eyes/inspected hot oil heater	Joshua Urias
4/3/23 11:30 Important	Inspect/Test/Pull Sample	TEG Pumps	Test East TEG pump motor bad wrote WO	Charles Tolsma
4/5/23 8:30 General	Inspect/Test/Pull Sample	See Comments	Lab services here to pull samples	Charles Tolsma
4/5/23 11:05 Important	Inspect/Test/Pull Sample	NGL Treaters	Tested H2S 2.5 PPM dragger tube	Charles Tolsma
4/8/23 10:04 Inspection	Inspect/Test/Pull Sample	#3		Jose Pineda
4/10/23 8:23 Inspection	Inspect/Test/Pull Sample	#1		Jose Pineda
4/10/23 13:56 Inspection	Inspect/Test/Pull Sample	#3		Jose Pineda
4/11/23 12:55 General	Inspect/Test/Pull Sample	#3	inspected camera and flare pilots.	Jorge Chavez (c)
4/13/23 19:09 Inspection	Inspect/Test/Pull Sample	#3	Inspected all flare pilots and verified proper funciton.	Joshua Urias
4/13/23 20:00 Inspection	Inspect/Test/Pull Sample	#3	Inspect all pilots	Joshua Urias
		Flare Pilot #1;#Flare Pilot #2;#Flare Pilot		
4/15/23 18:25 Inspection	Inspect/Test/Pull Sample	#3	Inspected flare for proper function. Came in multiple times within a 10 minute span	Joshua Urias
4/13/23 19:30 Inspection	Inspect/Test/Pull Sample	#3	Inspected flare for proper function	Joshua Urias
4/20/23 19:30 General	Inspect/Test/Pull Sample	See Comments	21in in methanol tank	Jorge Chavez (c)
4/20/23 17:30 Important	Inspect/Test/Pull Sample	Compressor 213	cylinder 2 , no load function	Miguel Venegas (c)
4/26/23 8:00 General	Inspect/Test/Pull Sample	See Comments	lab services cam to calibrate the inlet gas meters	Gil Cordero
4/25/23 9:30 Inspection	Inspect/Test/Pull Sample	See Comments	lab services came to take samples	Gil Cordero
4/29/23 9:30 Inspection	Inspect/Test/Pull Sample	H2S/LEL Monitors	Legacy here to test LEL/H2S monitors	Charles Tolsma
4/29/23 10:00 Inspection	Inspect/Test/Pull Sample	Fire Eyes/Hot oil heater stack		Charles Tolsma
4/29/23 14:30 Inspection	Inspect/Test/Pull Sample	H2S/LEL Monitors	Legacy has left all H2S/LEL alarms are cleared will be back Monday to finish calibrating	g Charles Tolsma
5/1/23 10:30 Inspection	Inspect/Test/Pull Sample	H2S/LEL Monitors	Legacy here for calibration on LEL/H2S monitors	Charles Tolsma
5/3/23 11:30 Inspection	Inspect/Test/Pull Sample	H2S/LEL Monitors	Legacy here to calibrate LEL/H2S monitors	Charles Tolsma
5/4/23 12:15 Important	Inspect/Test/Pull Sample	Compressor 207	Pressure tested C207	Jose Pineda
5/5/23 3:15 General	Inspect/Test/Pull Sample	#3	checked and tested	Miguel Venegas (c)
	<u> </u>			

5/5/23 14:00 General	Inspect/Test/Pull Sample	See Comments	33in of methanol in tank	Jorge Chavez (c)
5/6/23 10:35 General	Inspect/Test/Pull Sample	#2	Inspected and tested Flare pilots to ensure they were working properly	Jose Pineda
5/8/23 8:20 Inspection	Inspect/Test/Pull Sample	#2	Inspected and tested Flare Pilots to ensure they were working properly	Jose Pineda
5/10/23 9:20 Inspection	Inspect/Test/Pull Sample	#1	Inspected and tested Flare Pilots to ensure they were working properly	Jose Pineda
5/12/23 9:30 General	Inspect/Test/Pull Sample;#Isolate/De-isolate	Compressor 213	Pressure test on 213 after repairs and is being de isolated	Ryan Woolsey
5/12/23 9:30 Inspection	Report;#Inspect/Test/Pull Sample	#3	Recieved ir camera pilot alarm. visually verified pilots were lit.	Ryan Woolsey
5/12/23 10:30 Inspection	Inspect/Test/Pull Sample;#Report	#3	Recieved ir camera pilot alarm. visually verified pilots were lit.	Ryan Woolsey
4/26/22 23:32 Important	Inspect/Test	See Comments	Cooper strip in the oven	Jose Pineda
			Test and calibrate LEL monitors, 4, 5, 6, 8, 10, 11, 12, 13, 17, 41, Bad sensors on 42	
5/4/22 15:00 General	Inspect/Test	See Comments	and 7	Charles Tolsma
5/5/22 7:20 Important	Inspect/Test	See Comments	Legacy Safety in to finish testing LEL alarms	Jose Pineda
5/7/22 7:00 Important	Inspect/Test	See Comments	Legacy Safety in to test H2S monitors	Jose Pineda
5/10/22 7:00 Important	Inspect/Test;#Report	Flare	Juan is here to inspect/repair the flare out-put indicator.	(d) Jack Crews

August 2023

ATTACHMENT E

CLOSURE COST ESTIMATE

ÉPEI

•

Bucke	y Retirement Obligation Cost Estimate

				10-May-23
	<u>Qty</u>	<u>Unit</u>	<u>Unit Value</u>	<u>Total</u>
MAJOR EQUIPMENT REMOVAL				
Labor				
	1 250	man dava	¢1 000	¢1 250 000
	1,350	man uays	φ1,000	φ1,350,000
Main Communication	20		¢4,000	¢400.000
Main Compression	30	truck days	\$4,000	\$120,000
Ryan-Holmes Plant	45	truck days	\$4,000	\$180,000
Flare System	4	truck days	\$4,000	\$16,000
Refrigeration System	25	truck days	\$4,000	\$100,000
TEG System	15	truck days	\$4,000	\$60,000
Product Storage / Pumping	10	truck days	\$4,000	\$40,000
Buildings	10	truck days	\$4,000	\$40,000
Miscellaneous Other (Instr. Air, utilities, etc.)	20	truck days	\$4,000	\$80,000
Sub Total				\$1,986,000
Soil Remediation	500	oub varde	\$200	¢150.000
Bocontouring cooding vegetation monitoring	500		\$300 \$100 000	\$130,000
Analytical asota	250		\$100,000 ¢200	\$100,000 ¢50,000
Analytical Costs	200	sample	⊕200 ¢20,000	\$30,000 ¢coo ooo
Cranes Crane Mah/Damah	30	uays	\$20,000	φ000,000 ¢10,000
	00		*0 000	\$10,000
Supervision	20	days	\$2,000	\$40,000
Miscellaneous				\$20,000
Sub Total				\$970,000
Grand Total				\$2,956,000

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	261007
	Action Type:
	[UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
lbarr	None	9/6/2023

Page 45 of 45