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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011 bmit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action													
		OPERA	ГOR			al Report		Final Report					
Name of Co		Contact: Steve Moskal											
Address: 38		Telephone No.: 505-330-9179											
Facility Nar	ne: Galleg	1	Facility Type: Natural gas well										
Surface Ow	ner: Tribal	Federal API No. 3004526187											
LOCATION OF RELEASE													
Unit Letter Section Township Range Feet from the North L 27N 12W 1840 South						South Line	Feet from the 980	East/West Line West		County: San Juan		ı	
Latitude 36.60215° Longitude -108.15885°													
NATURE OF RELEASE													
Type of Release: unknown hydrocarbons							Volume of Release: unknown Volume Recovered: none						
Source of Release: Historical impacts, possible former earthen pit							Date and Hour of Occurrence: unknown Date and Hour of Discovery: February 26, 2018; 1:00 PM						
Was Immediate Notice Given?							If YES, To Whom?						
☐ Yes ☐ No ☒ Not Required							777,230,40						
By Whom? Was a Watercourse Reached?							Date and Hour: NMOCD						
was a water	course Reac	If YES, Volume Impacting the Watercourse. APR 0.3 2018											
If a Watercou	ırse was Im	pacted, Descri	ibe Fully.*							15 0	CT 111		
DISTRICT III													
Describe Cause of Problem and Remedial Action Taken.* During BGT closure activities, impacts were identified beneath the 95 bbl tank. Lab analysis confirms the impacts are above the BGT closure standards and spill and release guidelines with a site ranking or 20.													
Describe Area Affected and Cleanup Action Taken.* The area has not been fully delineated and will be delineated via excavation in the coming weeks. Attached is a proposed workplan to perform soil shredding to remediate impacted soils on site.													
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.													
Signature: Alexandre							OIL CONSERVATION DIVISION						
Printed Name		Approved by Environmental Specialist:											
Title: Field Environmental Coordinator							Approval Date: Expiration Date:						
E-mail Addre	ess: steven.n	Conditions of Approval:			Attached								
Date: April 3, 2018 Phone: 505-330-9179													
Attach Additional Sheets If Necessary Provide OCD 24-Hour Notice Prior to Samply													
Jamble 2012/8051 (arse)												(23)	
					-18116	18111915022							

BP Remediation Plan

To:

Cory Smith, Vanessa Fields(NMOCD), Whitney Thomas (BLM), Steve Austin

(NNEPA)

From:

Steve Moskal (BP)

CC:

Jeff Blagg (Blagg Engineering), Emmanuel Adeloye (BLM)

Date:

4/3/2018

Re:

GALLEGOS CANYON UNIT No. 089E- Ex-situ Soil Remediation - Soil Shredding (L) S-6, T27N, R12W; API #30-045-26187; Serial No.:NM-SF-

01757591

Dear Mr. Smith, Mrs. Fields, Mrs. Thomas and Mr. Austin

The Gallegos Canyon Unit (GCU) 089E site is an active natural gas production well location within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located on Navajo Tribal with federal mineral managed Bureau of Land Management Farmington Field Office (BLM-FFO) and is in an area primarily used for oil and gas production in the vicinity of Navajo Agricultural Products Inc operated land.

Background

Historical impacts were identified at the location on February 26, 2018 during the closure of a below grade tank (BGT). The impacts are likely the result of earthen pits formerly used on the location. No historical documentation is available regarding this pit. Initial site investigation determined additional delineation was required to define the extents of impacts. Vertical delineation of the site has not yet been performed. The well site is operated by BP Production.

Site Ranking

Following the NMOCD site ranking criteria, the site closure standard is 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene:

- Depth to groundwater >100' (0 points)
- Nearest surface water source <200' (20 points)
- Distance to nearest water well or water source <1,000' (0 points)

Proposed Remediation - Soil Shredding

Based on recent success of soil shredding technologies performed on BP remediation sites, BP proposes to use this technology at the subject site. To date, BP has successfully contracted soil shredding of nearly 150,000 cubic yards of soil to meet site closure standards.

Soil shredding involves the excavation of the impacted soil which is then placed in processing equipment, such as a hammer mill or pug mill, to mechanically process and break-up the soil. The soil becomes more uniform and is aerated during the mechanical processing. The soil is then ejected from the processing equipment and a chemical oxidizer is applied, in this case, a 35% solution of hydrogen peroxide and water. The applied concentration of hydrogen peroxide typically ranges from 3-8%. The hydrogen peroxide quickly oxidizes the hydrocarbon impacts (reagents), resulting in soil, water and carbon dioxide (products). Once the soil is processed, it is stockpiled and allowed to sit for approximately 2-5 days of residence time. A composite soil sample is collected from each segregated stockpile and submitted for laboratory analysis to determine the effectiveness of the ex-situ Page | 1

remediation process. If the laboratory results are of acceptable levels, the soil will be used as backfill to the excavation; if results are unsatisfactory, the soil is passed through the process once more and a subsequent laboratory sample will be collected for laboratory confirmation as described before. Typically, 24 hours of notice is provided to the regulatory agencies for the opportunity to observe and witness the stockpile sampling.

BP proposes to perform the remediation of hydrocarbon impacts by the means of soil shredding. A conservative estimate of approximately 500 cubic yards of soil will be treated through the soil shredding process. BP proposes to treat the impacted soil and segregate windrow stockpiles broken into 100 cubic yard increments. A single, five-point composite, soil sample will be collected to represent each 100 cubic yard stockpile. If necessary, once a baseline of approximately 1,000 cubic yards of soil is consistently and successfully treated, BP will propose to decrease the sampling frequency to 500 cubic yard stockpile segments. The 500 cubic yard sampling modification will be discussed with the NMOCD, NNEPA and BLM for approval and input prior to implementation. BP would expect to have a sampling modification approval from the agencies within 48 working hours from the time of request. The remediation will then continue until complete and sampling will be based on the regulatory agencies approved sampling plan.

Excavation sampling will be in accordance with a typical dig and haul. The sidewalls and base of the excavation will be sampled in a frequency based on the size and progress of the excavation. Agency notification of excavation sampling will also be issued in advanced, 24-48 hours if possible.

BP is currently anticipates mobilizing to the location within the next 2-3weeks. BP plans to shut the well in and remove all necessary surface equipment.

It is understood, that if soil remediation is not successful via the soil shredding, an alternative method such as a dig and haul or soil vapor extraction will be necessary. BP will be in close communications with the agencies in the event an alternative remediation method is required.

Site Closure and Reporting

Once the soil shredding process is complete, the excavated area will be fully backfilled and compacted, and surface equipment will be re-set. Any necessary interim reclamation will be performed. Final reclamation of the well pad will occur at a later date, once the natural gas production well is plugged and abandoned.

A final remediation report will be delivered to NMOCD and BLM for approval of final site closure regarding the excavation and soil shredding activities within 60 days of the end of remediation.