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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
FEB 26 2015
NMOCD
DISTRICT III

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Gallegos Canyon Unit 36	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004507330

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
H	19	28N	12W	1,758	North	1,013	East	

Latitude 36.65001 **Longitude** 108.14754

NATURE OF RELEASE

Type of Release: unknown, possibly produced water	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: November 9, 2010; 3:33 PM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT during removal showed chloride concentrations of 1,700 ppm, which is above the standard of 250 ppm. Analysis results are attached.

Describe Area Affected and Cleanup Action Taken.* Sampling results showed the soil exceeded the standard for chloride. The BGT sampling field report showed a dense, very hard sandstone bedrock directly beneath the BGT. The BGT permit application indicates depth to groundwater is greater than 100 feet, and the distance to a flowing watercourse is greater than 300 feet. There are no freshwater wells or springs within 1000 feet. Based on the depth to groundwater and distance to freshwater sources BP is requesting NMOCD approved a risk-based closure approval for this 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: Jeff Peace	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 4/13/15	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: February 25, 2015 Phone: 505-326-9479		

* Attach Additional Sheets If Necessary

#NCS 1510352309

6

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	5 PC-TB@6' 95 BBL BET
Lab Order:	1011530	**Collection Date:**	11/9/2010 3:33:00 PM
Project:	GCU #36	**Date Received:**	11/12/2010
Lab ID:	1011530-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/14/2010 12:26:29 AM
Surr: DNOP	93.4	61.7-135		%REC	1	11/14/2010 12:26:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2010 10:27:33 PM
Surr: BFB	104	89.7-125		%REC	1	11/16/2010 10:27:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	1700	75		mg/Kg	50	11/30/2010 11:40:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	11/17/2010 3:15:00 PM
Toluene	ND	0.050		mg/Kg	1	11/17/2010 3:15:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/17/2010 3:15:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/17/2010 3:15:00 PM
Surr: 4-Bromofluorobenzene	94.6	82.2-105		%REC	1	11/17/2010 3:15:00 PM
EPA METHOD 418.1: TPH						Analyst: **LRW**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/16/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004507330

FIELD REPORT:

BGT CONFIRMATION / TEMP. PIT CLOSURE / RELEASE INVESTIGATION
(other)

PAGE No: 1 of 1

SITE INFORMATION:

SITE NAME: GCU # 36

DATE STARTED: 11/09/10
DATE FINISHED:

QUAD/UNIT: H SEC: 19 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM

QTR-QTR/FOOTAGE: SE/NE 1,758'N'/1,013'E LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: SF079244A PROD. FORMATION: FT CONTRACTOR: ELKHORN MBF - J. WILBORN

ENVIRONMENTAL SPECIALIST: NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.65018 X 108.14758 GL ELEV.: 5,683'

1)	95 BBL BGT	GPS COORD.:	36.65001 X 108.14754	DISTANCE/BEARING FROM W.H.: 68', S10.5E
2)		GPS COORD.:		DISTANCE/BEARING FROM W.H.:
3)		GPS COORD.:		DISTANCE/BEARING FROM W.H.:
4)		GPS COORD.:		DISTANCE/BEARING FROM W.H.:

LAB INFORMATION:

CHAIN OF CUSTODY RECORD(S): HALL

							OVM READING (ppm)
1)	SAMPLE ID: 5 PC-TB @ 6' 95 BBL BGT	SAMPLE DATE: 11/09/10	SAMPLE TIME: 1533	LAB ANALYSIS: 418.1/8015/8021/300.0 (Cl)	NA
2)	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	
3)	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	
4)	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)

SOIL COLOR: DARK YELLOWISH ORANGE

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

HC ODOR DETECTED: YES / NO EXPLANATION -

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5

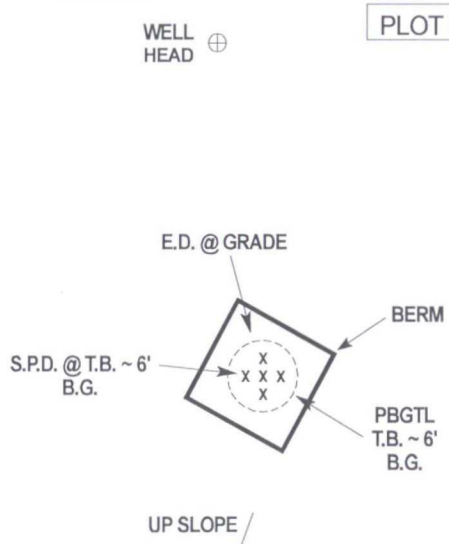
DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

ADDITIONAL COMMENTS: BGT BOTTOM ON BEDROCK SURFACE. COLLECTED SAMPLE FROM SOIL & BEDROCK BENEATH BGT. BEDROCK VERY HARD, SLIGHTLY FRIABLE. NO EVIDENCE OF ANY RELEASE FROM BGT OBSERVED.

EXCAVATION DIMENSIONS (if applicable): NA ft. X NA ft. X NA ft. cubic yards excavated (if applicable): NA

SITE SKETCH



OVM CALIB. READ. = NA ppm RF = 0.52
OVM CALIB. GAS = NA ppm
TIME: NA am/pm DATE: NA

MISCELL. NOTES

BGT - DW /DB TSB - Y

W.O.: N1125958
PAYKEY: ZEGJ01RIGS

GOOGLE EARTH
W.H. 36.650179 / 108.147572
BGT 36.649997 / 108.147530

Magnetic declination: 10° E

TSB - TANK SIDEWALL BURIED
DW/DB - DOUBLE WALL / DOUBLE BOTTOM.
N/A - NOT APPLICABLE OR NOT AVAILABLE.

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL.

TRAVEL NOTES: CALLOUT: 11/05/10 - AFTER. ONSITE: 11/09/10 - AFTER. (SCHED.)

SITING AND HYDRO-GEOLOGICAL REPORT FOR GALLEGOS CANYON UNIT 036

SITING CRITERIA 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), and depth to groundwater data obtained from water wells permitted by the New Mexico State Engineer's Office (OSE, Figure 1). Local topography and proximity to adjacent water features are also considered. A topographic map of the site is provided as Figure 2 and demonstrates that the below grade tank (BGT) is not within 300 feet of any continuously flowing watercourse or within 200 feet of any other significant watercourse, lakebed, sinkhole or playa lake as measured from the ordinary high water mark. Figure 3 demonstrates that the BGT is not within 300 feet of a permanent residence, school, hospital, institution or church. Figure 4 demonstrates, based on a search of the OSE database and USGS topographic maps, that there are no freshwater wells or springs within 1000 feet of the BGT. Figure 5 demonstrates that the BGT is not within a municipal boundary or a defined municipal freshwater well field. Figure 6 demonstrates that the BGT is not within 500 feet of a wetland. Figure 7 demonstrates that the BGT is not in an area overlying a subsurface mine. The BGT is not located in an unstable area. Figure 8 demonstrates that the BGT is not within the mapped FEMA 100-year floodplain.

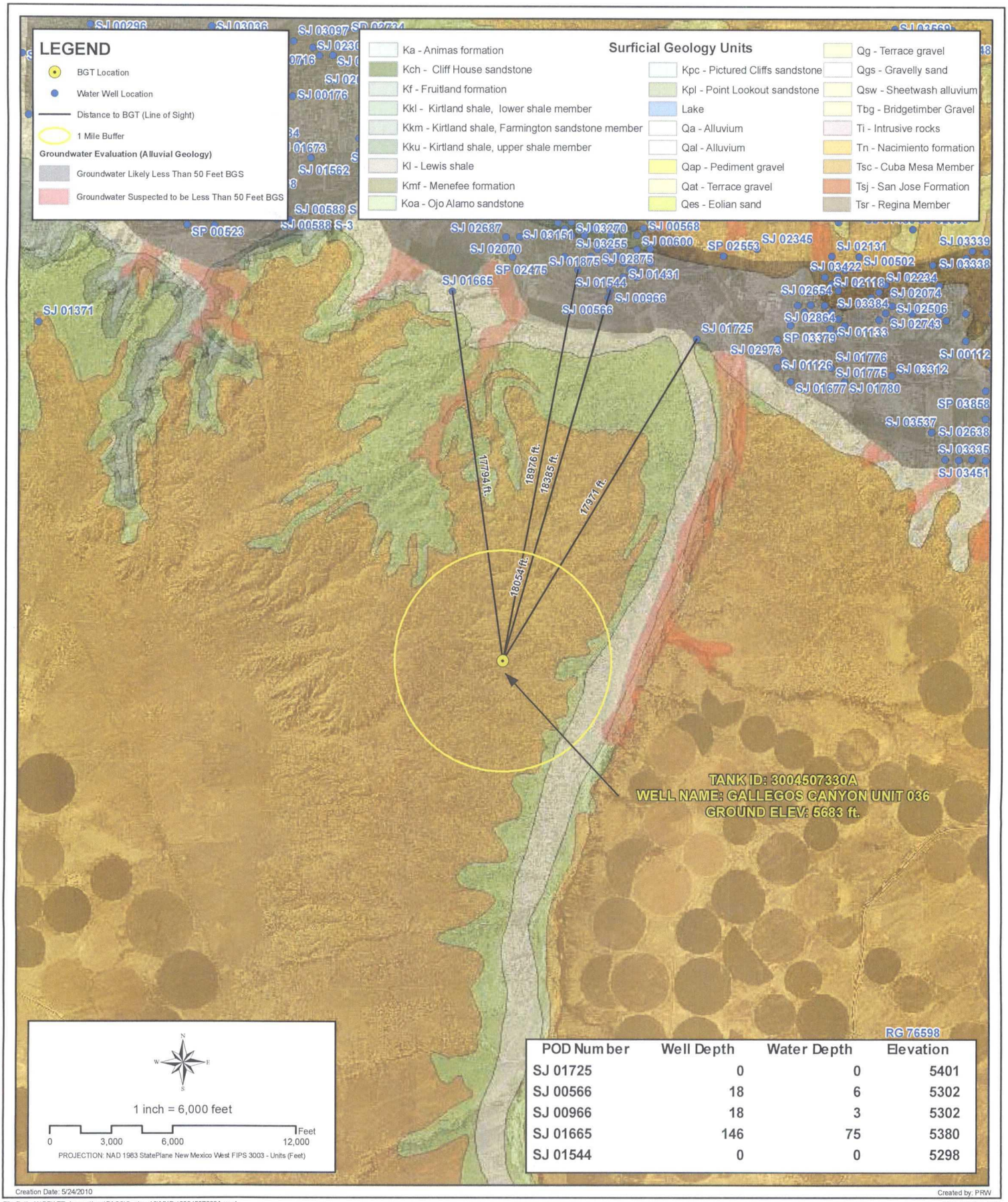
Local Geology and Hydrology

This particular site is located on a slope west of Gallegos Canyon. Broad shaley hills are interspersed with occasional sandstone outcrops, and systems of dry washes and their tributaries are common. The predominant geologic formation is the Nacimiento Formation of Tertiary age, which underlies surface soils and is often exposed. Deposits of Quaternary alluvial and eolian sands occur prominently near the surface of the area, especially near washes.

Regional Geology and Hydrology

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional system with fluvial having a lesser impact.

Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface and grades into the Animas Formation to the west. The lower part of the Nacimiento Formation is composed of interbedded black, carbonaceous mudstones and



POD Number	Well Depth	Water Depth	Elevation
SJ 01725	0	0	5401
SJ 00566	18	6	5302
SJ 00966	18	3	5302
SJ 01665	146	75	5380
SJ 01544	0	0	5298

Creation Date: 5/24/2010
Created by: PRW
File Path: X:\BP\LTE_Inspections\PASS\Sector_10\MXDs\3004507330A.mxd
Reviewed by: AGH

bp

GROUNDWATER LESS THAN 50 FT.

WELL NAME: GALLEGOS CANYON UNIT 036

API NUMBER: 3004507330 TANK ID: 3004507330A

SECTION 19, TOWNSHIP 28.0N, RANGE 12W, P.M. NM23

FIGURE 1

BGT marker
95