

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS2001742271
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: SIMCOE LLC	OGRID: 329736	
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179	
Contact email: smoskal@ikavenergy.com	Incident # <i>(assigned by OCD)</i> : NCS2001742271	BGT Remediation Closure Request
Contact mailing address: 1199 Main Ste., Suite 101, Durango, CO 81301		

Location of Release Source

Latitude: **36.68301°**Longitude: **-108.16285°**

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: GALLEGOS CANYON UNIT 189	Site Type: Natural Gas Production Wellpad
Date Release Discovered: 9/29/2019	API# (if applicable): 30-045-07678

Unit Letter	Section	Township	Range	County
E	36	29N	13W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <5	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) <5	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

During closure proceedings of a below grade tank onsite, visual impacts were observed, likely from a pit overflow event, based on the volume of soil remediated.

Remedial Action:

The tank was removed on 9/20/2019 and closure sampling was conducted on 10/1/2019. Approximately 8- 10 yards of soil was removed from the site and placed in a permitted landfarm for treatment and disposal.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Steve Moskal</u>	Title: <u>Environmental Coordinator</u>
Signature: _____	Date: <u>2/18/2021</u>
email: <u>smoskal@ikavenergy.com</u>	Telephone: <u>505-330-9179</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release? Depth to water determined using SJ 01665 well permit.	<u>420</u> (ft bgs) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did this release impact groundwater or surface water? DTW ~230'; Surface drainage ~600' south.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Surface drainage ~600' south.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? None identified within 500'.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Well SJ 01665 located >1,000' from release point, based on NMOSE database.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? None identified.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs - **Not Applicable**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Steve Moskal Title: Environmental Coordinator

Signature: _____ Date: 2/18/2021

email: smoskal@ikavenergy.com Telephone: 505-330-9179

OCD Only

Received by: Jocelyn Harimon Date: 10/19/2022

Incident ID	NCS2001742271
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities – **See page 1 of this form for brief description of minimal remedial activity.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Steve Moskal Title: Environmental Coordinator
Signature:  Date: 2/18/2021
email: smoskal@ikavenergy.com Telephone: 505-330-9179

OCD Only

Received by: Jocelyn Harimon Date: 10/19/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jocelyn Harimon  Date: 10/19/2022
Printed Name: Jocelyn Harimon Title: Environmental Specialist

APPROVED
10/19/2022
Jocelyn Harimon

CLIENT: BPX	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004507678 TANK ID (if applicable): A
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FIELD REPORT: (circle one): <input checked="" type="checkbox"/> BGT CONFIRMATION / <input type="checkbox"/> RELEASE INVESTIGATION / <input type="checkbox"/> OTHER:	PAGE #: 1 of 1
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SITE INFORMATION:	SITE NAME: GCU # 189	DATE STARTED: 09/20/19
QUAD/UNIT: E SEC: 36 TWP: 29N RNG: 13W PM: NM CNTY: SJ ST: NM	DATE FINISHED:	ENVIRONMENTAL SPECIALIST(S): NJV
1/4 - 1/4 FOOTAGE: 2,480'N / 1,160'W SE/NW LEASE TYPE: FEDERAL <input checked="" type="checkbox"/> STATE / <input type="checkbox"/> FEE / <input type="checkbox"/> INDIAN	LEASE #: - PROD. FORMATION: DK CONTRACTOR: KELLEY O.F.S. BPX - S. BEEBE	

REFERENCE POINT:	WELL HEAD (W.H.) GPS COORD.: 36.68336 X 108.16266	GL ELEV.: 5,685'
1) 95 BGT (SW/DB)	GPS COORD.: 36.68301 X 108.16285	DISTANCE/BEARING FROM W.H.: 140.5', S22.5W
2)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5' (95)	SAMPLE DATE: 09/20/19 SAMPLE TIME: 1022	LAB ANALYSIS: 8015B/8021B/300.0 (CI)
2) SAMPLE ID: GRAB @ 5' (95)	SAMPLE DATE: 09/20/19 SAMPLE TIME: 1026	LAB ANALYSIS: 8015B/8021B/300.0 (CI)
3) SAMPLE ID: 3PC - TB @ 5' (95)	SAMPLE DATE: 09/20/19 SAMPLE TIME: 1106	LAB ANALYSIS: 8015B/8021B/300.0 (CI)
4) SAMPLE ID:	SAMPLE DATE:	LAB ANALYSIS:
5) SAMPLE ID:	SAMPLE DATE:	LAB ANALYSIS:

SOIL DESCRIPTION:	SOIL TYPE: <input checked="" type="checkbox"/> SAND / <input type="checkbox"/> SILTY SAND / <input type="checkbox"/> SILT / <input type="checkbox"/> SILTY CLAY / <input type="checkbox"/> CLAY / <input type="checkbox"/> GRAVEL / <input type="checkbox"/> OTHER BEDROCK (SANDSTONE) AT 5.5 FT. B.G.
SOIL COLOR: MOSTLY PALE YELLOWISH ORANGE	PLASTICITY (CLAYS): <input type="checkbox"/> NON PLASTIC / <input type="checkbox"/> SLIGHTLY PLASTIC / <input type="checkbox"/> COHESIVE / <input type="checkbox"/> MEDIUM PLASTIC / <input type="checkbox"/> HIGHLY PLASTIC
COHESION (ALL OTHERS): <input checked="" type="checkbox"/> NON COHESIVE / <input type="checkbox"/> SLIGHTLY COHESIVE / <input type="checkbox"/> COHESIVE / <input type="checkbox"/> HIGHLY COHESIVE	DENSITY (COHESIVE CLAYS & SILTS): <input type="checkbox"/> SOFT / <input type="checkbox"/> FIRM / <input type="checkbox"/> STIFF / <input type="checkbox"/> VERY STIFF / <input type="checkbox"/> HARD
CONSISTENCY (NON COHESIVE SOILS): <input checked="" type="checkbox"/> LOOSE / <input type="checkbox"/> FIRM / <input type="checkbox"/> DENSE / <input type="checkbox"/> VERY DENSE	HC ODOR DETECTED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION - SLIGHTLY WITHIN STAINED SOILS
MOISTURE: <input checked="" type="checkbox"/> DRY / <input type="checkbox"/> SLIGHTLY MOIST / <input type="checkbox"/> MOIST / <input type="checkbox"/> WET / <input type="checkbox"/> SATURATED / <input type="checkbox"/> SUPER SATURATED	ANY AREAS DISPLAYING WETNESS: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO EXPLANATION -
SAMPLE TYPE: <input checked="" type="checkbox"/> GRAB / <input type="checkbox"/> COMPOSITE # OF PTS. 3 & 5	DISCOLORATION/STAINING OBSERVED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION - GRAY TO BLACK STAINING AT EAST SIDE OF BGT FOOTPRINT PERIMETER

SITE OBSERVATIONS:	LOST INTEGRITY OF EQUIPMENT: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION: EAST QUADRANT OF BGT FOOTPRINT PERIMETER ONLY	EQUIPMENT SET OVER RECLAIMED AREA: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO EXPLANATION -
OTHER: NMOC REP. PRESENT TO WITNESS COMPOSITE & GRAB SAMPLING. GAS WELL HAS BEEN PLUGGED & ABANDONED (P&A). IMPORTED GRAVEL DIRECTLY BENEATH BGT ONLY. IMPACTED SOILS/BEDROCK QUANTITY APPEARS MINIMAL.	EXCAVATION DIMENSION ESTIMATION: _____ ft. X _____ ft. X _____ ft. EXCAVATION ESTIMATION (Cubic Yards): _____
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: < 300' NMOC TPH CLOSURE STD: 100 ppm	

SITE SKETCH	BGT Located: off / <input checked="" type="checkbox"/> on site	PLOT PLAN circle: <input checked="" type="checkbox"/> attached
(● □ X) - S.P.D.		

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGT = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	MISCELL. NOTES PO #: AFE #: SIO #: 190040007672 GL #: 745277 Permit date(s): 06/14/10 OCD Appr. date(s): 01/24/17 Tank ID: A OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N BGT Sidewalls Visible: <input type="checkbox"/> Y / <input type="checkbox"/> N BGT Sidewalls Visible: <input type="checkbox"/> Y / <input type="checkbox"/> N Magnetic declination: 10° E
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NOTES: GOOGLE EARTH IMAGERY DATE: 2018 GOOGLE.	ONSITE: 9/20/19
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CLIENT: BPX	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004507678 TANK ID (if applicable): A
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / <u>OTHER:</u> <div style="text-align: center; color: blue;">95 BGT REMEDIATION</div>		PAGE #: 1 of 1
SITE INFORMATION: SITE NAME: GCU # 189 QUAD/UNIT: E SEC: 36 TWP: 29N RNG: 13W PM: NM CNTY: SJ ST: NM 1/4 - 1/4 FOOTAGE: 2,480'N / 1,160'W SE/NW LEASE TYPE: <u>FEDERAL</u> <u>STATE</u> / FEE / INDIAN LEASE #: - PROD. FORMATION: DK CONTRACTOR: KELLEY O.F.S. BPX - S. BEEBE		DATE STARTED: 10/01/19 DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.68336 X 108.16266 GL ELEV.: 5,685' 1) 95 BGT (SW/DB) GPS COORD.: 36.68301 X 108.16285 DISTANCE/BEARING FROM W.H.: 140.5', S22.5W 2) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____ 3) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____ 4) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____		
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL		OVM READING (ppm) 0.5 1.2
1) SAMPLE ID: EAST 4PC - TB @ 5.5' (95) SAMPLE DATE: 10/01/19 SAMPLE TIME: 1000 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 2) SAMPLE ID: WEST 4PC - TB @ 5.5' (95) SAMPLE DATE: 10/01/19 SAMPLE TIME: 1005 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 3) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ 4) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ 5) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____		
SOIL DESCRIPTION: SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / <u>OTHER</u> BEDROCK (SANDSTONE) @ 5.5 FT. B.G. SOIL COLOR: MOSTLY PALE YELLOWISH ORANGE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / <u>HIGHLY COHESIVE</u> DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / <u>VERY DENSE</u> HC ODOR DETECTED: YES <u>NO</u> EXPLANATION - _____ MOISTURE: <u>DRY</u> SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB / <u>COMPOSITE</u> # OF PTS. 4 ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION - _____ DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION - _____		
SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES <u>NO</u> EXPLANATION - _____ APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> NO EXPLANATION: SURFACE STAINING AT EAST SIDE OF BGT FOOTPRINT DURING INITIAL VISIT. EQUIPMENT SET OVER RECLAIMED AREA: YES <u>NO</u> EXPLANATION - _____ OTHER: NMOC D REP. NOT PRESENT TO WITNESS COMPOSITE SAMPLING. IMPACTED SOILS/BEDROCK SCRAPPED & REMOVED PRIOR TO ARRIVAL. GAS WELL HAS BEEN PLUGGED & ABANDONED (P&A). EXCAVATION DIMENSION ESTIMATION: 15 ft. X 15 ft. X 1 ft. EXCAVATION ESTIMATION (Cubic Yards): 8 - 10 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: < 300' NMOC D TPH CLOSURE STD: 100 ppm		
SITE SKETCH <div style="display: flex; justify-content: space-between;"> BGT Located: off / <u>on</u> site PLOT PLAN circle: <u>attached</u> </div> <div style="text-align: center;"> </div> <div style="position: absolute; top: 0; right: 0; text-align: right;"> OVM CALIB. READ: = 101.5 ppm RF=1.00 OVM CALIB. GAS = 100 ppm TIME: 10:10 am/pm DATE: 10/01/19 </div>		
MISCELL. NOTES PO #: AFE #: SIO #: 190040007672 GL #: 745277 Permit date(s): 06/14/10 OCD Appr. date(s): 01/24/17 Tank ID: A OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: <u>Y</u> / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N Magnetic declination: 10° E		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. NOTES: GOOGLE EARTH IMAGERY DATE: 2018 GOOGLE. ONSITE: 9/20/19, 10/01/19		

Gallegos Canyon Unit 189

(E), S36, 29N, 13W

BGT GPS: 36.68301°, -108.16285°

Legend

- East Sample Points
- West Sample Points

West Sample East Sample



SIMCOE LLC**GALLEGOS CANYON UNIT 189**

Incident #: NCS2001742271 API #: 30-045-07678
 Unit E, Sec. 36, T29N, R13W Federal Lease #: Private
 BGT Closure & Remediation - Lab Results

Table 1

MAP DESIGNATION # & SAMPLE ID	SAMPLE DATE	SAMPLE TIME	GRAB / COMPOSITE	TPH - gasoline (mg/Kg)	TPH - diesel range (mg/Kg)	TPH - cumulative (mg/Kg)	TPH - motor oil range (mg/Kg)	TPH - cumulative (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl - benzene (mg/Kg)	Total Xylenes (mg/Kg)	BTEX - cumulative (mg/Kg)	Chloride (mg/Kg)
BGT Closure Sampling														
5PC -TB @ 5' (95)	09/20/19	10:22	5 pt. comp.	<4.4	160	160	230	390	<0.022	<0.044	<0.044	<0.087	<0.087	140.0
GRAB @ 5' (95)	09/20/19	10:26	GRAB	<20	8,400	8,400	6,300	14,700	<0.10	<0.20	<0.20	<0.40	<0.40	79.0
3PC- TB @5' (95)	09/20/19	11:06	3 pt. comp.	<4.0	46	46	71	117	<0.020	<0.040	<0.040	<0.079	<0.079	<59
Remedial Closure Sampling														
EAST 4 PC-TB@5.5'(95)	10/01/19	10:00	4 pt. comp.	<3.9	16	16	<49	16	<0.020	<0.039	<0.039	<0.078	<0.078	<60
WEST 4 PC-TB@5.5'(95)	10/01/19	10:05	4 pt. comp.	<3.8	53	53	22	75	<0.019	<0.038	<0.038	<0.076	<0.076	86

NMOCD RELEASE CLOSURE STANDARDS -	1,000	2,500	10	50	10,000
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Notes:

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.
 BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.
 ppm - Parts per million.
 mg/Kg - Milligram per kilogram (mg/Kg).
 (-) - Not analyzed or N/A
 NMOCD - New Mexico Oil Conservation Division.

GALLEGOS CANYON UNIT 189

09/20/2019 Before Excavation

Viewing
South

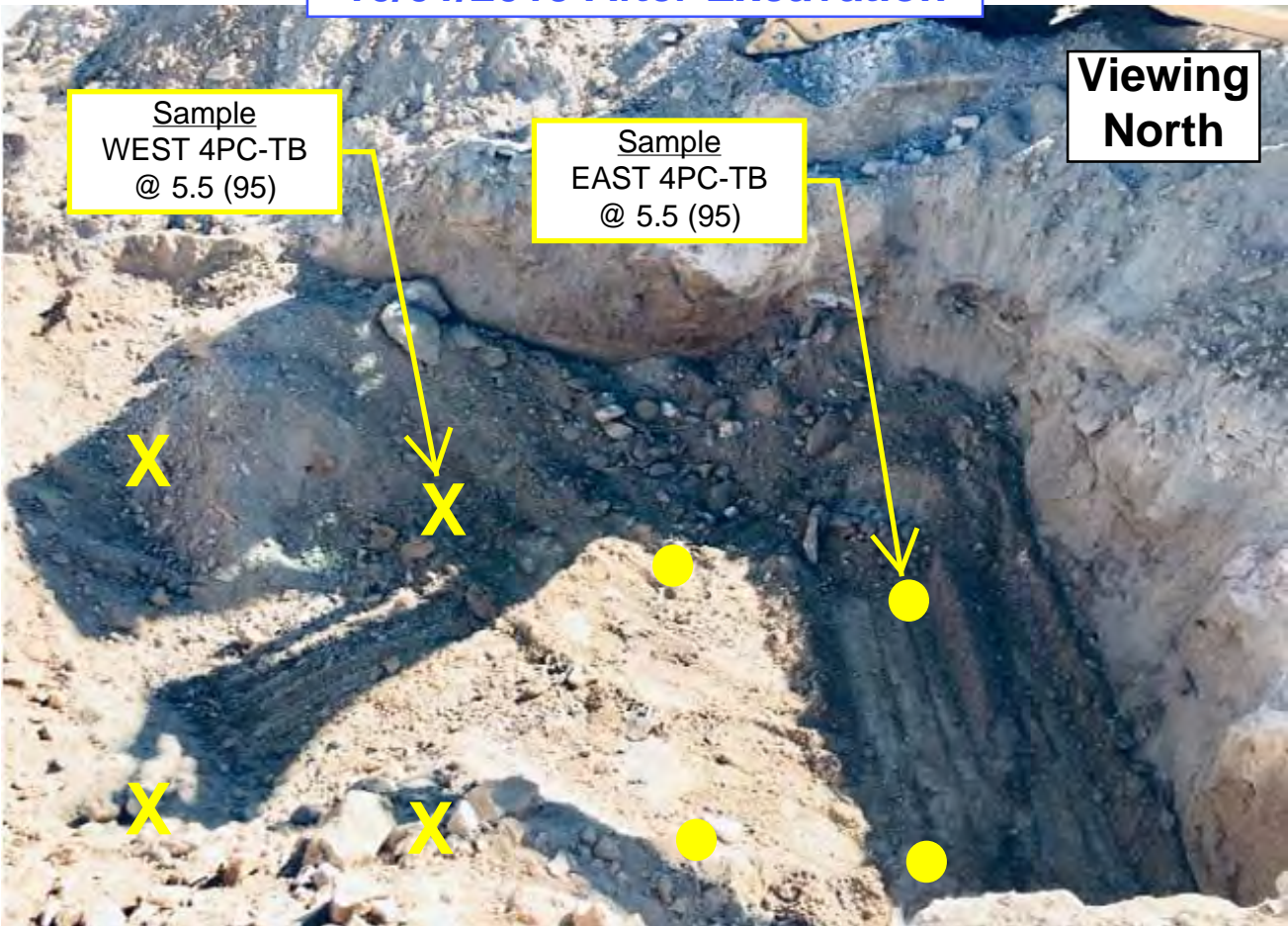


10/01/2019 After Excavation

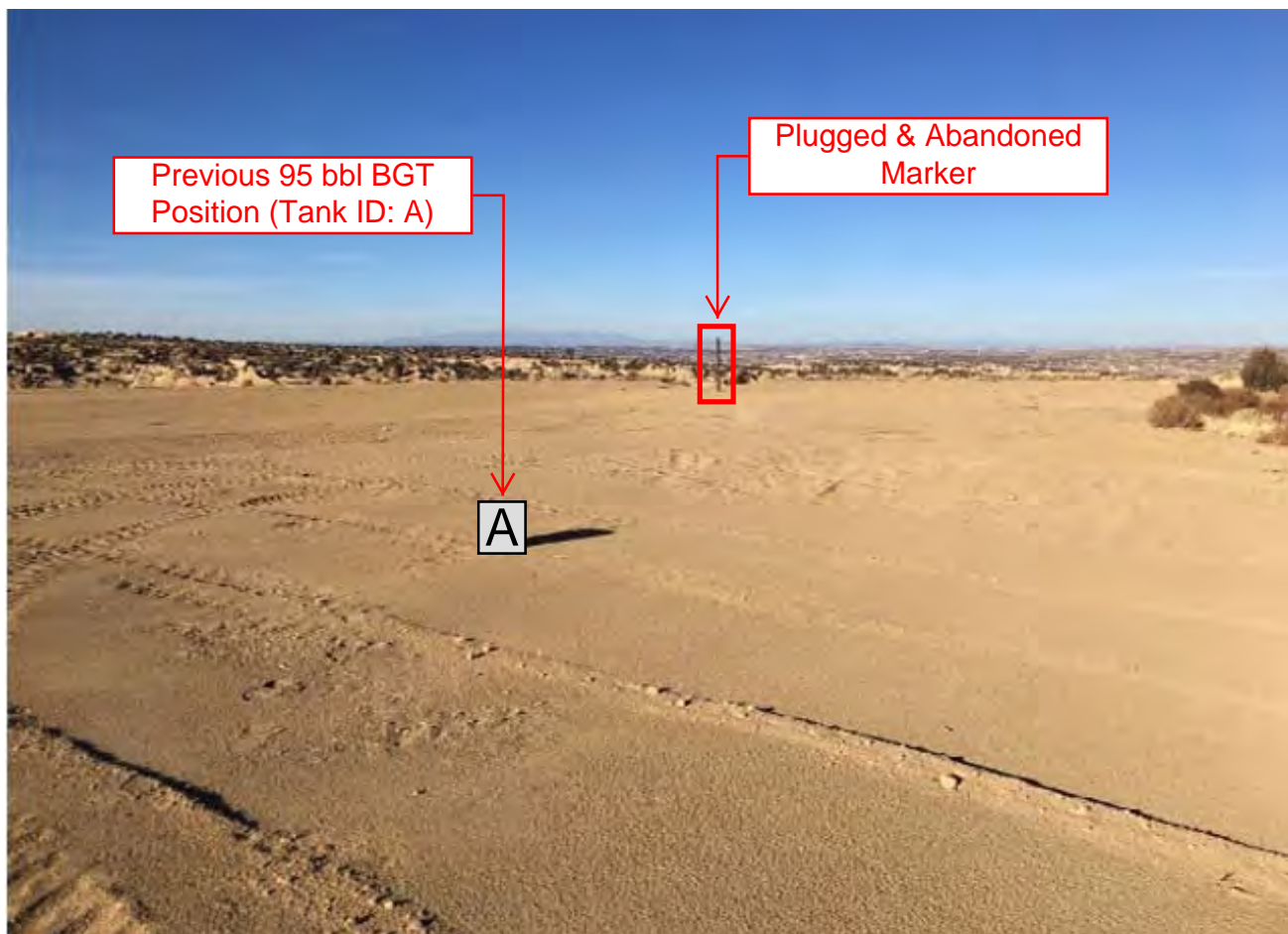
Viewing
North

Sample
WEST 4PC-TB
@ 5.5 (95)

Sample
EAST 4PC-TB
@ 5.5 (95)



GALLEGOS CANYON UNIT 189



BP Pit Closure Notification – Gallegos Canyon Unit 189

From: Patti Campbell (BPX)
To: Smith, Cory, EMNRD
Cc: Sabre Beebe (BPX), Erin Dunman (BPX), Steven Moskal (BPX), Adeloye, Abiodun (BLM), l1thomas@blm.gov (BLM), Nelson Velez, Jefferey Blagg
Date: Tuesday, September 17, 2019 09:04 AM MDT

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US

September 17, 2019

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

Gallegos Canyon Unit 189
API 30-045-07678
(E) Section 36 – T29N – R13W
San Juan County, New Mexico

Dear Mr. Cory Smith,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around September 20, 2019.

Should you have any questions, please feel free to contact BP.

Sincerely,

Patti Campbell
Regulatory Analyst
BP America Production Company
BPX Energy Inc.
(970) 712-5997
patti.campbell@bpx.com



This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying, disclosure or distribution of this email and any attachments is prohibited.



BP America Production Company
1199 Main Ave., Suite 101
Durango, CO 81303

September 17, 2019

B Square Ranch LLC
Tom Bolack
3901 Bloomfield Highway
Farmington, NM 87401

VIA CERTIFIED MAIL

Re: Notification of plans to close/remove a below grade tank
Well Name: GALLEGOS CANYON UNIT 189
API# - 3004507678

Dear Mr. Bolack,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about September 20, 2019. Barring any unforeseen issues, the work should be completed within 10 working days.

This site has been plugged and abandoned and BP is decommissioning the well site.

If witnessing of the tank removal is required, please contact Steve Moskal on (505)-330-9179 or Erin Dunman on (281) 810-2578 for a specific time.

Sincerely,

Patti Campbell

Patti Campbell
BPX – San Juan
Regulatory Analyst

Note: Due to a change in owner/operatorship, no record of additional notifications or communications are available.

Analytical Report

Lab Order 1909B64

Date Reported: 9/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC -TB @ 5' (95)

Project: GCU 189

Collection Date: 9/20/2019 10:22:00 AM

Lab ID: 1909B64-001

Matrix: SOIL

Received Date: 9/21/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	140	60		mg/Kg	20	9/23/2019 11:29:56 AM	47646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	160	9.8		mg/Kg	1	9/23/2019 12:55:09 PM	47645
Motor Oil Range Organics (MRO)	230	49		mg/Kg	1	9/23/2019 12:55:09 PM	47645
Surr: DNOP	100	70-130		%Rec	1	9/23/2019 12:55:09 PM	47645
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	9/23/2019 9:41:34 AM	G63110
Surr: BFB	95.5	77.4-118		%Rec	1	9/23/2019 9:41:34 AM	G63110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	9/23/2019 9:41:34 AM	B63110
Toluene	ND	0.044		mg/Kg	1	9/23/2019 9:41:34 AM	B63110
Ethylbenzene	ND	0.044		mg/Kg	1	9/23/2019 9:41:34 AM	B63110
Xylenes, Total	ND	0.087		mg/Kg	1	9/23/2019 9:41:34 AM	B63110
Surr: 4-Bromofluorobenzene	82.0	80-120		%Rec	1	9/23/2019 9:41:34 AM	B63110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 5

Analytical Report

Lab Order 1909B65

Date Reported: 9/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GRAB @ 5' (95)

Project: GCU 189

Collection Date: 9/20/2019 10:26:00 AM

Lab ID: 1909B65-001

Matrix: SOIL

Received Date: 9/21/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	79	60		mg/Kg	20	9/23/2019 11:42:21 AM	47646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	8400	960		mg/Kg	100	9/23/2019 12:41:37 PM	47645
Motor Oil Range Organics (MRO)	6300	4800		mg/Kg	100	9/23/2019 12:41:37 PM	47645
Surr: DNOP	0	70-130	S	%Rec	100	9/23/2019 12:41:37 PM	47645
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	9/23/2019 10:04:34 AM	G63110
Surr: BFB	114	77.4-118		%Rec	5	9/23/2019 10:04:34 AM	G63110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	9/23/2019 10:04:34 AM	B63110
Toluene	ND	0.20		mg/Kg	5	9/23/2019 10:04:34 AM	B63110
Ethylbenzene	ND	0.20		mg/Kg	5	9/23/2019 10:04:34 AM	B63110
Xylenes, Total	ND	0.40		mg/Kg	5	9/23/2019 10:04:34 AM	B63110
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	5	9/23/2019 10:04:34 AM	B63110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 6

Analytical Report

Lab Order 1909B65

Date Reported: 9/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3PC- TB @5' (95)

Project: GCU 189

Collection Date: 9/20/2019 11:06:00 AM

Lab ID: 1909B65-002

Matrix: SOIL

Received Date: 9/21/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	9/23/2019 11:54:45 AM	47646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	46	9.3		mg/Kg	1	9/23/2019 12:30:50 PM	47645
Motor Oil Range Organics (MRO)	71	47		mg/Kg	1	9/23/2019 12:30:50 PM	47645
Surr: DNOP	99.1	70-130		%Rec	1	9/23/2019 12:30:50 PM	47645
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/23/2019 11:59:29 AM	G63110
Surr: BFB	93.3	77.4-118		%Rec	1	9/23/2019 11:59:29 AM	G63110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/23/2019 11:59:29 AM	B63110
Toluene	ND	0.040		mg/Kg	1	9/23/2019 11:59:29 AM	B63110
Ethylbenzene	ND	0.040		mg/Kg	1	9/23/2019 11:59:29 AM	B63110
Xylenes, Total	ND	0.079		mg/Kg	1	9/23/2019 11:59:29 AM	B63110
Surr: 4-Bromofluorobenzene	78.5	80-120	S	%Rec	1	9/23/2019 11:59:29 AM	B63110

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 6

Analytical Report

Lab Order 1910106

Date Reported: 10/3/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: EAST 4 PC-TB@5.5'(95)

Project: GCU 189

Collection Date: 10/1/2019 10:00:00 AM

Lab ID: 1910106-001

Matrix: MEOH (SOIL)

Received Date: 10/2/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/2/2019 11:47:57 AM	47877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	16	9.8		mg/Kg	1	10/2/2019 11:51:36 AM	47875
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/2/2019 11:51:36 AM	47875
Surr: DNOP	107	70-130		%Rec	1	10/2/2019 11:51:36 AM	47875
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/2/2019 9:28:54 AM	A63368
Surr: BFB	92.6	77.4-118		%Rec	1	10/2/2019 9:28:54 AM	A63368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/2/2019 9:28:54 AM	C63368
Toluene	ND	0.039		mg/Kg	1	10/2/2019 9:28:54 AM	C63368
Ethylbenzene	ND	0.039		mg/Kg	1	10/2/2019 9:28:54 AM	C63368
Xylenes, Total	ND	0.078		mg/Kg	1	10/2/2019 9:28:54 AM	C63368
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	10/2/2019 9:28:54 AM	C63368

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 6

Analytical Report

Lab Order 1910106

Date Reported: 10/3/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: WEST 4 PC-TB@5.5'(95)

Project: GCU 189

Collection Date: 10/1/2019 10:05:00 AM

Lab ID: 1910106-002

Matrix: MEOH (SOIL)

Received Date: 10/2/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	86	60		mg/Kg	20	10/2/2019 12:00:21 PM	47877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	22	9.0		mg/Kg	1	10/2/2019 12:13:46 PM	47875
Motor Oil Range Organics (MRO)	53	45		mg/Kg	1	10/2/2019 12:13:46 PM	47875
Surr: DNOP	106	70-130		%Rec	1	10/2/2019 12:13:46 PM	47875
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	10/2/2019 9:51:41 AM	A63368
Surr: BFB	93.0	77.4-118		%Rec	1	10/2/2019 9:51:41 AM	A63368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	10/2/2019 9:51:41 AM	C63368
Toluene	ND	0.038		mg/Kg	1	10/2/2019 9:51:41 AM	C63368
Ethylbenzene	ND	0.038		mg/Kg	1	10/2/2019 9:51:41 AM	C63368
Xylenes, Total	ND	0.076		mg/Kg	1	10/2/2019 9:51:41 AM	C63368
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	10/2/2019 9:51:41 AM	C63368

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 6

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Final Report

Responsible Party

Responsible Party BPX Energy (formerly BP America Production Co.)	OGRID 778
Contact Name Erin Dunman	Contact Telephone (832) 609-7048
Contact email Erin.Dunman@bpx.com	Incident # (assigned by OCD)
Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301	

Location of Release Source

Latitude **36.68301** Longitude **-108.16285**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Gallegos Canyon Unit 189	Site Type Natural Gas Well
Date Release Discovered	API# (if applicable) 30-045-07678

Unit Letter	Section	Township	Range	County
E	36	29N	13W	San Juan

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls) None
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Most likely from overflow of below-grade tank (BGT).**

Excavation of impacted soils/bedrock completed. 8-10 cubic yards removed and transported to Envirotech Landfarm. Total Petroleum Hydrocarbons (TPH), benzene, toluene, ethylbenzenes, total xylenes (BTEX), benzene, & chloride all below 19.15.29 NMAC closure standard requirements.

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Erin Dunman Title: Field Environmental Coordinator
Signature: Erin Dunman Date: 20-Nov-2019
email: Erin.Dunman@bpx.com Telephone: (832) 609-7048

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Initial Report

Responsible Party

Responsible Party BPX Energy (formerly BP America Production Co.)	OGRID 778
Contact Name Erin Dunman	Contact Telephone (832) 609-7048
Contact email Erin.Dunman@bpx.com	Incident # (assigned by OCD)
Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301	

Location of Release Source

Latitude **36.68301** Longitude **-108.16285**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Gallegos Canyon Unit 189	Site Type Natural Gas Well
Date Release Discovered	API# (if applicable) 30-045-07678

Unit Letter	Section	Township	Range	County
E	36	29N	13W	San Juan

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls) None
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Most likely from overflow of below-grade tank (BGT).**

Benzene, toluene, ethylbenzene, total xylenes (BTEX), benzene, & chloride all below below-grade tank (BGT) registration closure standards. Total Petroleum Hydrocarbons (TPH) exceeded both BGT registration and 19.15.29 NMAC closure standard requirements (100 mg/Kg - exceeding setback requirement per paragraph 1 of subsection D, 19.15.29 NMAC) for two (2) composite & one (1) grab samples. Remedial activity required.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Not required.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Erin Dunman</u>	Title: <u>Field Environmental Coordinator</u>
Signature: <u>Erin Dunman</u>	Date: <u>20-Nov-2019</u>
email: <u>Erin.Dunman@bpx.com</u>	Telephone: <u>(832) 609-7048</u>
<u>OCD Only</u> Received by: _____ Date: _____	

**SITING AND HYDRO-GEOLOGICAL REPORT FOR GALLEGOS CANYON UNIT 189
– TANK ID: 3004507678A**

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 mesa west of Stewart Canyon on an outcrop of Ojo Alamo Sandstone. The outcrops cap sloping units of the Kirtland Shale and drain to the nearby San Juan River. Deposits of Quaternary alluvial sands occur prominently near streams and drainages. The river is approximately 1 mile to the north, but hundreds of feet lower in elevation.

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). The Fruitland Formation consists of interbedded sandy shale, carbonaceous shale, sandstone and coal units. The Kirtland Shale is divided into a lower shale member, a middle sandstone unit and an upper sandy shale member.

The two formations are difficult to differentiate and are often treated together. The combined thickness of the Fruitland-Kirtland interval ranges from 100 to 2000 feet (Stone et al., 1983). Aquifers within the Fruitland-Kirtland Formations are primarily limited to the Farmington Sandstone Member (20 to 480 feet thick), which is the middle unit within the Kirtland Shale. Reported discharge from stock wells is about 10 gallons per minute (Stone et al., 1983). The aquifer supplies low yielding stock wells.

The Ojo Alamo Sandstone consists of sandstone, and conglomeratic sandstone and overlies the Kirtland Shale. The thickness of the Ojo Alamo ranges from 72 to 313 feet. Beds of water-yielding sandstone are present within the Ojo Alamo Sandstone, which are fluvial in origin. The predominant aquifer within the unit occurs near 200 feet in depth. Transmissivities are recorded to range from 0.5 to 250 ft²/d. The aquifer is widely used as a domestic and stock water source (Stone et al., 1983).

References

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

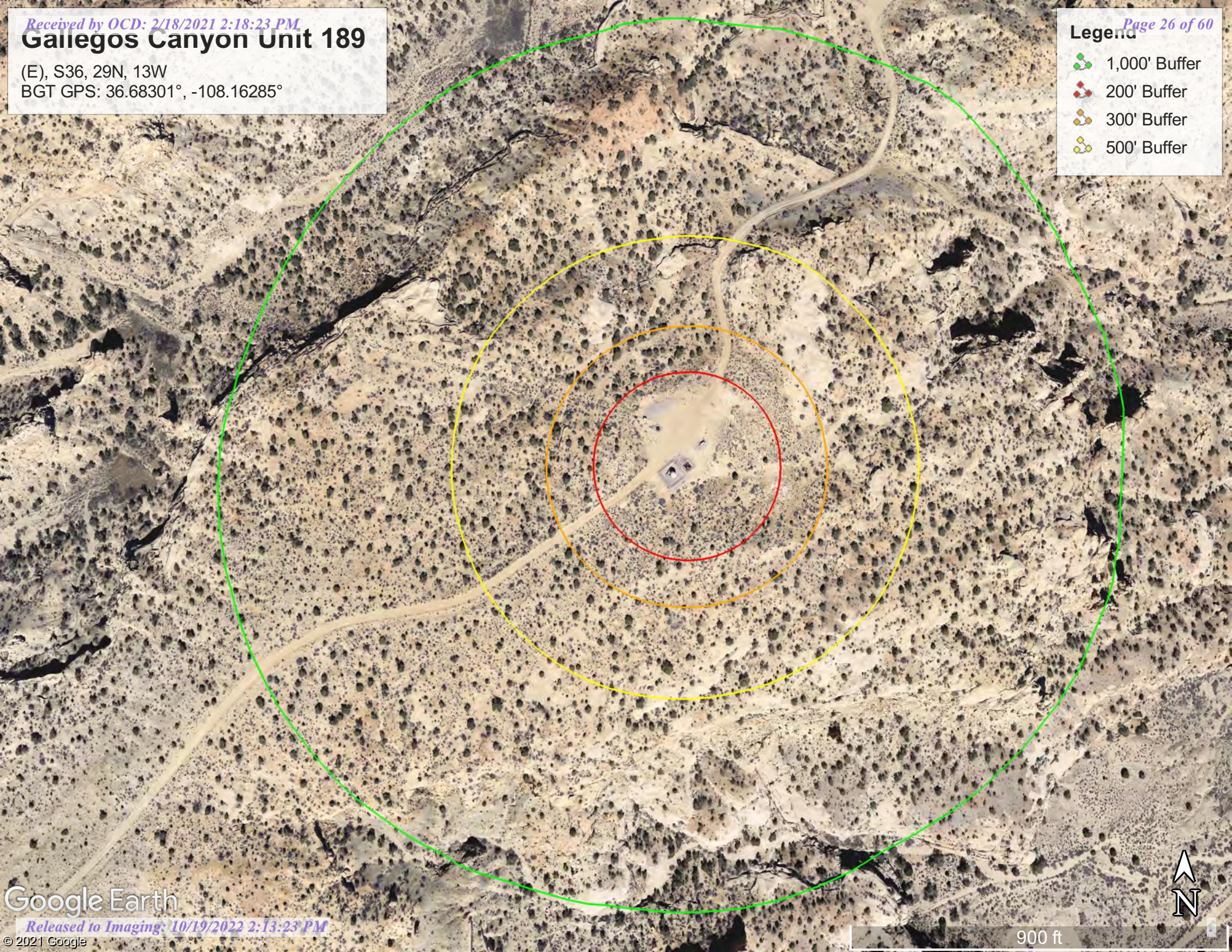
Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p

Gallegos Canyon Unit 189

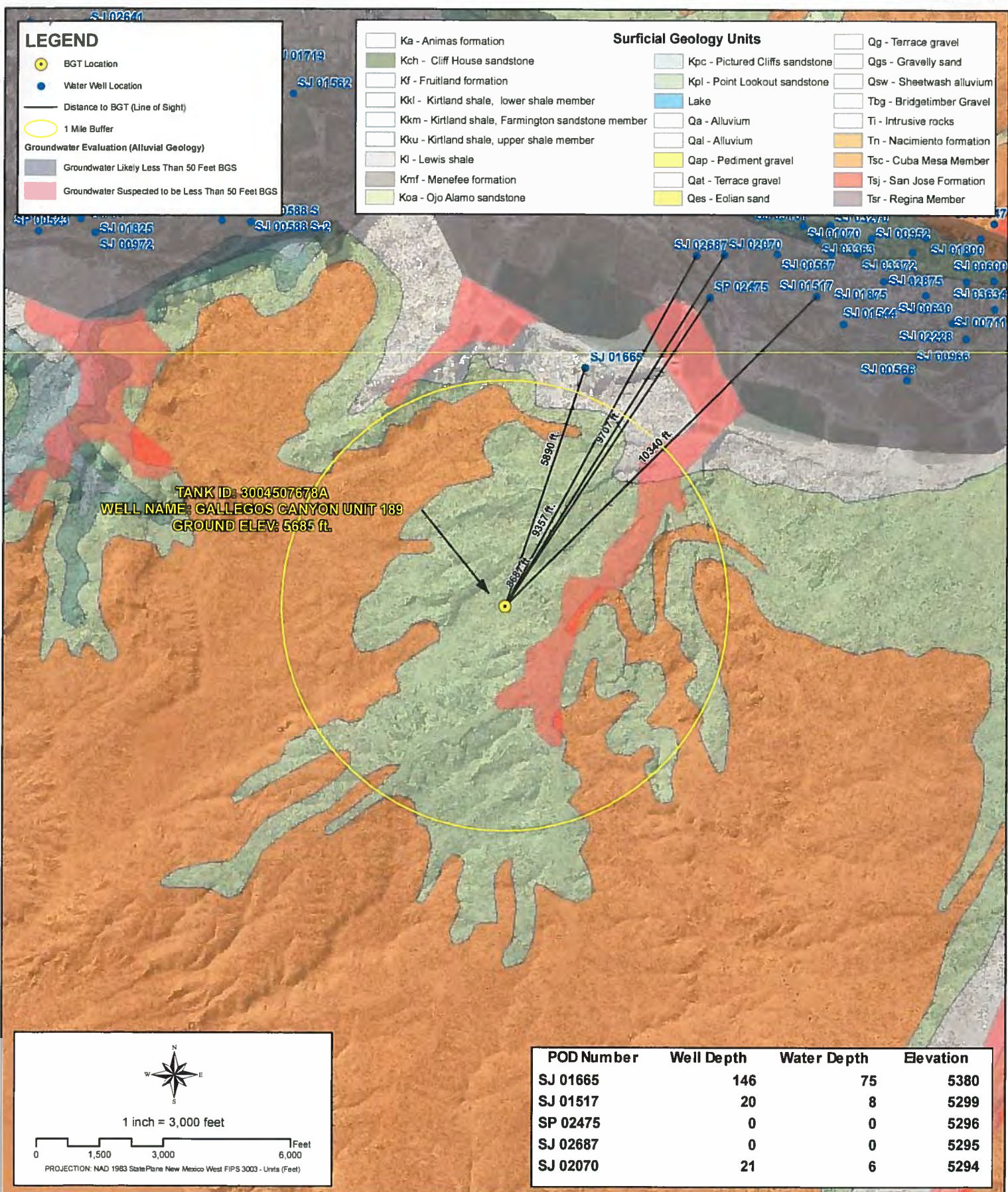
(E), S36, 29N, 13W
BGT GPS: 36.68301°, -108.16285°

Legend

- 1,000' Buffer
- 200' Buffer
- 300' Buffer
- 500' Buffer



Page 27 of 60
Received by OCH: 2/18/2021 2:18:23 PM
Released to Imaging: 10/19/2022 2:13:23 PM



GROUNDWATER LESS THAN 50 FT.

WELL NAME: GALLEGOS CANYON UNIT 189

API NUMBER: 3004507678 TANK ID: 3004507678A

SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE

1



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: SJ 01665 **Subbasin:** SJM2 **Cross Reference:** -
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: TOMMY BOLACK

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
get images	228104	72121	1983-01-24	PMT	LOG	SJ 01665	T			3	

Current Points of Diversion

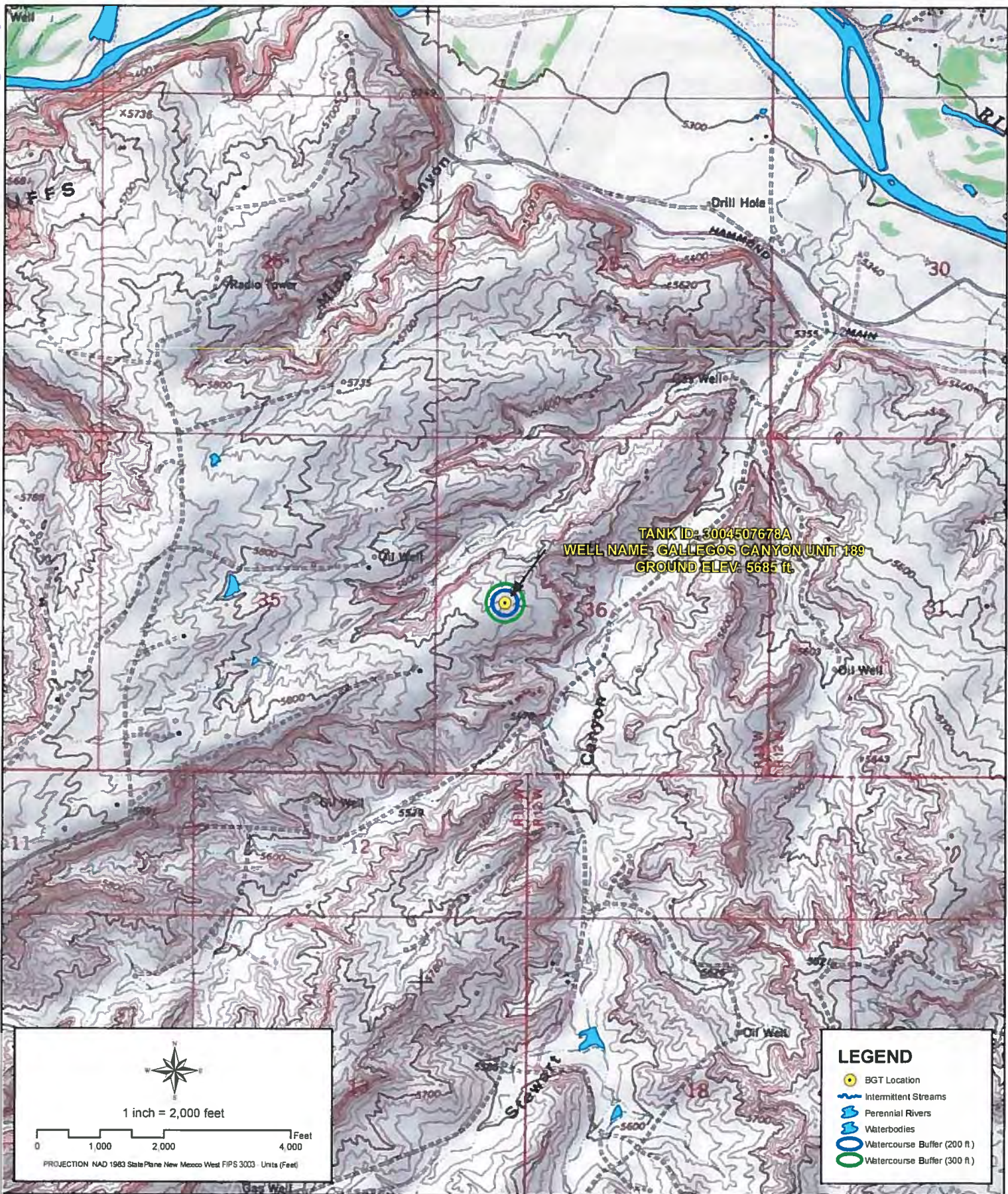
(NAD83 UTM in meters)									
POD Number	Well Tag	Source	Q				X	Y	Other Location Desc
SJ 01665		Shallow	3	3	2	25 29N 13W	218003	4066054*	

An () after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/18/21 12:38 PM

WATER RIGHT SUMMARY



PROXIMITY TO WATERCOURSES

WELL NAME: GALLEGOS CANYON UNIT 189

API NUMBER: 3004507678 TANK ID: 3004507678A

SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE
2



Creation Date: 5/17/2010
Path: X:\BP\TE_inspection\PASS\Sector_9M\Del3004507678A.mxd

Created by: PRW
Reviewed by: A



PROXIMITY TO PERMANENT STRUCTURE

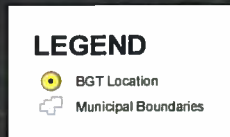
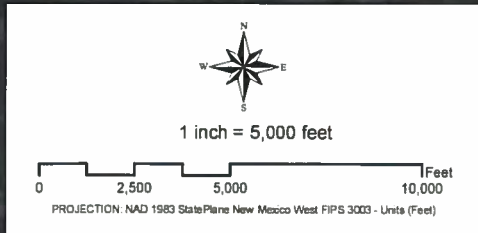
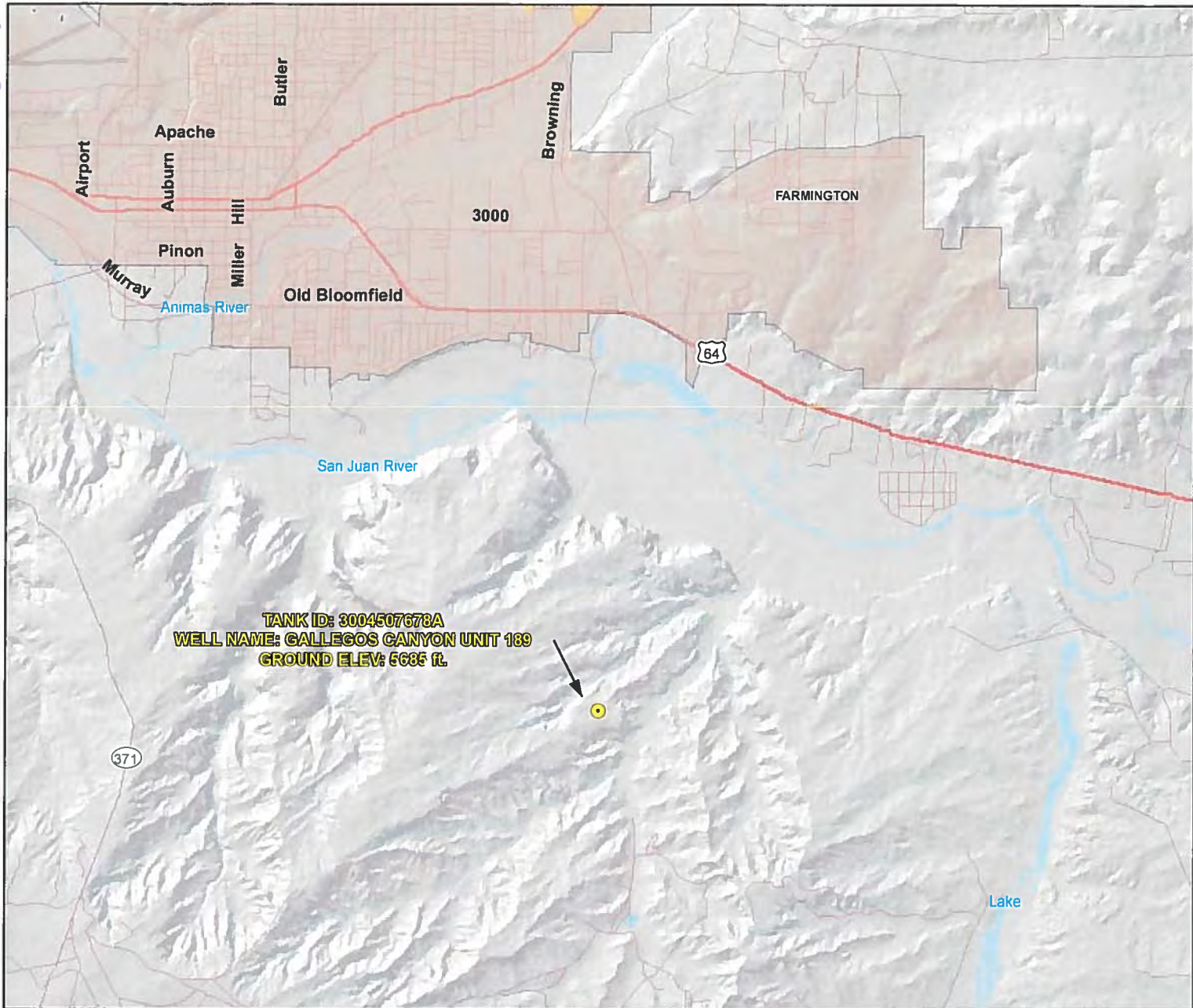
WELL NAME: GALLEGOS CANYON UNIT 189

API NUMBER: 3004507678 TANK ID: 3004507678A

SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE
3





Creation Date: 5/17/2010
Path: X:\BPLTE_Inspections\PASS\Sector_9M\Del3004507678A.mxd

Created by: PRV
Reviewed by: AG



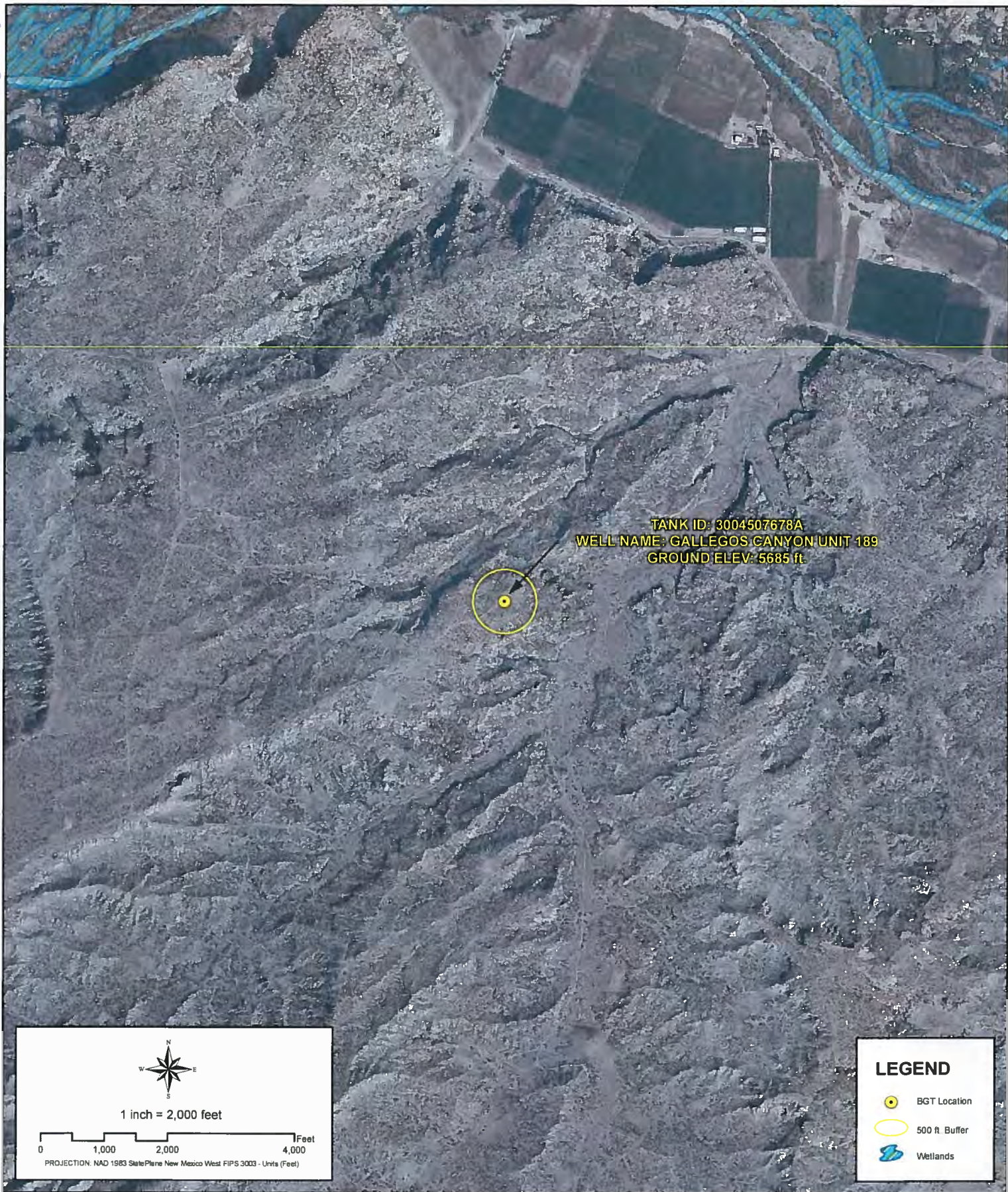
PROXIMITY TO MUNICIPAL BOUNDARY

WELL NAME: GALLEGOS CANYON UNIT 189

API NUMBER: 3004507678 TANK ID: 3004507678A

SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE
5



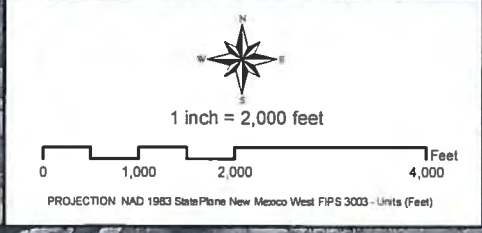
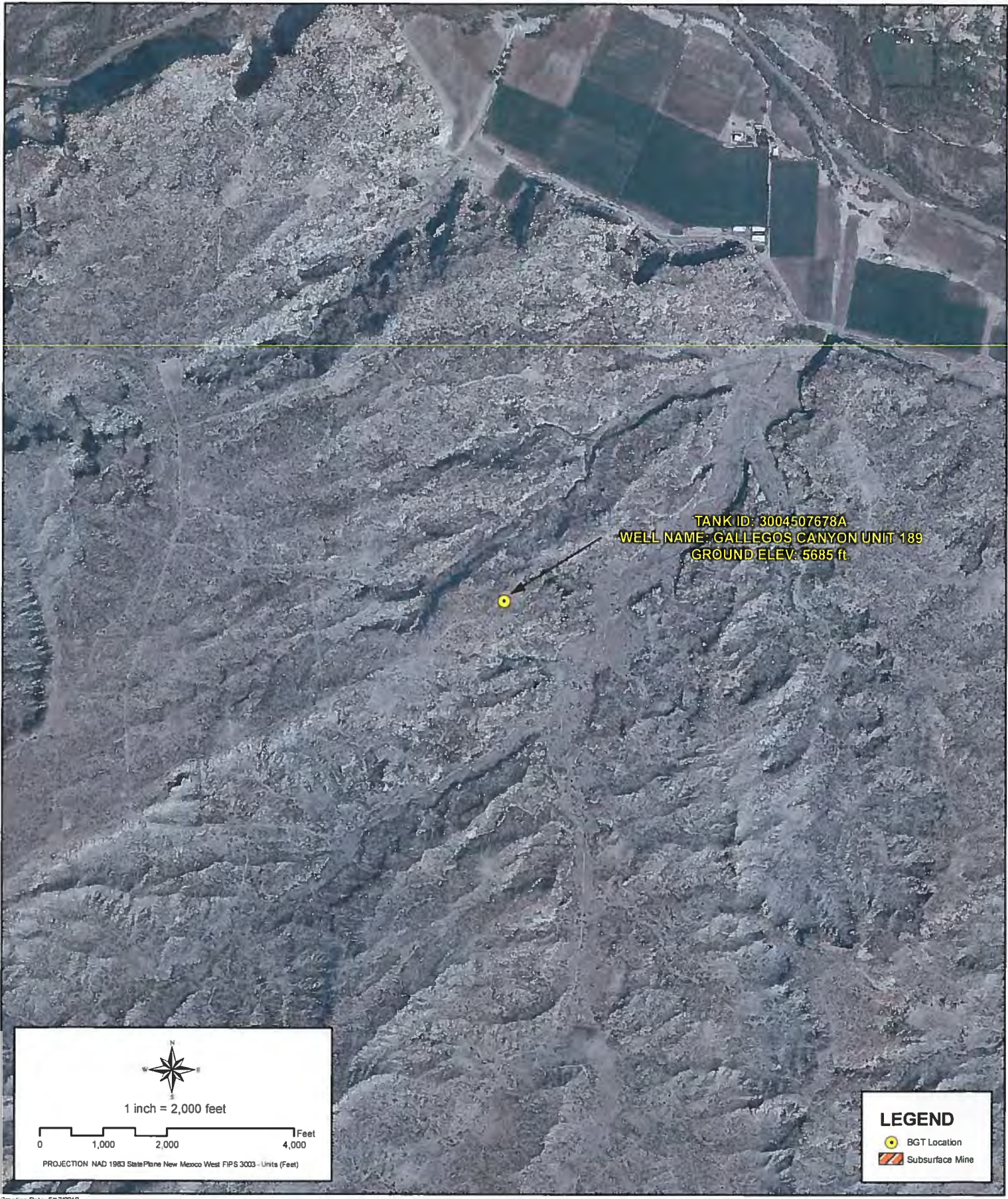
Creation Date: 5/17/2010
Path: X:\BP\LTE_Inspection\FAS\Sector_9\MXDs\3004507678A.mxd

Created by: PRV
Reviewed by:



PROXIMITY TO WETLANDS
WELL NAME: GALLEGOS CANYON UNIT 189
API NUMBER: 3004507678 TANK ID: 3004507678A
SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE
6



Creation Date: 5/17/2010
Path: X:\BP\LTE_inspections\PASS\Sector_9\MXDe\3004507678A.mxd

Created by: EBB
Reviewed by: A



PROXIMITY TO SUBSURFACE MINES

WELL NAME: GALLEGOS CANYON UNIT 189

API NUMBER: 3004507678 TANK ID: 3004507678A
SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M.NM23

FIGURE

7



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Released to Imaging: 10/19/2022 2:13:23 PM



PROXIMITY TO FLOODPLAIN
WELL NAME: GALLEGOS CANYON UNIT 189
API NUMBER: 3004507678 TANK ID: 3004507678A
SECTION 36, TOWNSHIP 29.0N, RANGE 13W, P.M. NM23

FIGURE
8

SOUTHERN SAN JUAN BASIN (SSJB)

Figure Citation List

March 2010

Figure 1: Groundwater Less Than 50 ft.

Layers:

Water Wells:

iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from:
http://www.ose.state.nm.us/waters_db_index.html.

Cathodic Wells:

Tierra Corrosion Control, Inc. (Aug. 2008)

Tierra Corrosion Control, Inc. 1700 Schofield Ln. Farmington, NM 87401. Driller's Data Log. (Data collected: All data are associated with cathodic protection wells installed at BP facilities between 2008-2009. Data received: 05/06/2010).

Hydrogeological Evaluation:

Wright Water Engineers, Inc. (2008)

Evaluation completed by Wright Water Engineers, Inc. Durango Office. Data created using digital statewide geology at 1:500,000 from USGS in combination with 10m Digital Elevation Model (DEM) from NRCS. (Data compiled: 2008.)

Results: Spatial Polygons representing "Groundwater likely to be less than 50 ft." and "Groundwater suspected to be less than 50 ft."

Surficial Geology:

USGS (1963/1987)

Data digitized and rectified by Geospatial Consultants. (Data digitized: 03/23/ 2010). Original hard copy maps sourced from United States Geological Survey (USGS). Data available from:
<http://pubs.er.usgs.gov/>.

Geology, Structure and Uranium Deposits of the Shiprock Quadrangle, New Mexico and Arizona. 1:250,000. I - 345. Compiled by Robert B. O'Sullivan and Helen M. Beikman. 1963.

Geologic Map of the Aztec 1 x 2 Quadrangle, Northwestern New Mexico and Southern Colorado. 1:250,000. I - 1730. Compiled by Kim Manley, Glenn R. Scott, and Reinhard A. Wobus. 1987.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:
NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 2: Proximity to Watercourses**Layers:****Perennial Streams:****NHD, USGS (2010)**

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: <http://nhd.usgs.gov/>.

Intermittent Streams:**NHD, USGS (2010)**

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: <http://nhd.usgs.gov/>.

Water Bodies:**NHD, USGS (2010)**

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: <http://nhd.usgs.gov/>.

USGS Topographic Maps:**USGS (2007)**

USGS 24k Topographic map series. 1:24000. Maps are seamless, scanned images of USGS paper topographic maps. Data available from: <http://store.usgs.gov>.

Figure 3: Proximity to Permanent Structure**Layers:****Aerial Imagery:****Conoco (Summer 2009)**

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 4: Proximity to Water Wells**Layers:****Water Wells:****iWaters Database: NMOSE/ISC (Dec. 2009)**

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from:
http://www.ose.state.nm.us/waters_db_index.html.

Springs/Seeps:**NHD, USGS (2010)**

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from:
<http://nhd.usgs.gov/>.

Aerial Imagery:**Conoco (Summer 2009)**

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:
 NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 5: Proximity to Municipal Boundary**Layers:****Municipal Boundary:****San Juan County, New Mexico (2010)**

Data provided by San Juan County GIS Division. (Data received: 03/25/2010).

Shaded Relief:**NED, USGS (1999)**

National Elevation Dataset (NED). U.S. Geological Survey, EROS Data Center. (Data created: 1999. Data downloaded: April, 2010). Resolution: 10 meter (1/3 arc-second). Data available from: <http://ned.usgs.gov/>.

StreetMap North America:**Tele Atlas North America, Inc., ESRI (2008)**

Data derived from Tele Atlas Dynamap/Transportation North America, version 5.2. (Data updated: annually. Data series issue: 2008).

Figure 6: Proximity to Wetlands**Layers:****Wetlands:****NWI (2010)**

National Wetlands Inventory (NWI). U.S Fish and Wildlife Service. (Data last updated: 09/25/2009. Data received: 03/21/2010). Data available from: <http://www.fws.gov/wetlands/>.

Aerial Imagery:**Conoco (Summer 2009)**

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:
NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 7: Proximity to Subsurface Mine**Layers:****Subsurface Mine:****NM Mining and Minerals Division (2010)**

New Mexico Mining and Minerals Division. (Data received: 03/12/2010). Contact: Susan Lucas Kamat, Geologist. Provided PLSS NM locations (Sections) for the two subsurface mines located in San Juan and Rio Arriba counties.

Aerial Imagery:**Conoco (Summer 2009)**

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:
NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

Figure 8: Proximity to FEMA Floodplain

Layers:

FEMA Floodplain:

FEMA (varying years)

Data digitized and rectified by Wright Water Engineers, Inc. (Data digitized: August 2008).
Digitized from hard copy Flood Insurance Rate Maps (FIRMs) (varying years) of San Juan County.

Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery.
Projected coordinate system name:
NAD_1983_StatePlane_New_Mexico_West_FIPS_3003_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.



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

September 24, 2019

Sabre Beebe

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199

FAX (505) 632-3903

RE: GCU 189

OrderNo.: 1909B65

Dear Sabre Beebe:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B64****24-Sep-19****Client:** Blagg Engineering**Project:** GCU 189

Sample ID: MB-47646	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 47646	RunNo: 63103								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2154169	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-47646	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 47646	RunNo: 63103								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2154170	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B64**

24-Sep-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: LCS-47635	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47635	RunNo: 63104								
Prep Date: 9/21/2019	Analysis Date: 9/23/2019	SeqNo: 2152625 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.2	70	130			

Sample ID: LCS-47645	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47645	RunNo: 63104								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2152626 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	63.9	124			
Surr: DNOP	4.1		5.000		81.7	70	130			

Sample ID: MB-47635	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47635	RunNo: 63104								
Prep Date: 9/21/2019	Analysis Date: 9/23/2019	SeqNo: 2152627 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.5	70	130			

Sample ID: MB-47645	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47645	RunNo: 63104								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2152628 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B64**

24-Sep-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153333 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	77.4	118			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153334 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	80	120			
Surr: BFB	1300		1000		127	77.4	118			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 4 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B64**

24-Sep-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153432		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153537		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.91	0.050	1.000	0	91.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 5 of 5



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

Sample Log-In Check List

Client Name: **BLAGG**Work Order Number: **1909B64**RcptNo: **1**Received By: **Yazmine Garduno**

9/21/2019 8:50:00 AM

*Yazmine Garduno*Completed By: **Yazmine Garduno**

9/21/2019 9:41:21 AM

Yazmine Garduno

Reviewed By:

NVZ 9/21/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

of preserved
bottles checked
for pH:

(-2 or >12 unless noted)

Adjusted?

Checked by:

YB 9/21/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	4.2	Good				

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B65****24-Sep-19****Client:** Blagg Engineering**Project:** GCU 189

Sample ID: MB-47646	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 47646	RunNo: 63103								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2154169 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-47646	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 47646	RunNo: 63103								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2154170 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B65**

24-Sep-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: LCS-47635	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47635	RunNo: 63104								
Prep Date: 9/21/2019	Analysis Date: 9/23/2019	SeqNo: 2152625 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.2	70	130			

Sample ID: LCS-47645	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47645	RunNo: 63104								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2152626 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	63.9	124			
Surr: DNOP	4.1		5.000		81.7	70	130			

Sample ID: MB-47635	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47635	RunNo: 63104								
Prep Date: 9/21/2019	Analysis Date: 9/23/2019	SeqNo: 2152627 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.5	70	130			

Sample ID: MB-47645	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47645	RunNo: 63104								
Prep Date: 9/23/2019	Analysis Date: 9/23/2019	SeqNo: 2152628 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.9	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B65****24-Sep-19****Client:** Blagg Engineering**Project:** GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153333 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	77.4	118			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153334 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	80	120			
Surr: BFB	1300		1000		127	77.4	118			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 5 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1909B65****24-Sep-19****Client:** Blagg Engineering**Project:** GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153432		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B63110	RunNo: 63110								
Prep Date:	Analysis Date: 9/23/2019	SeqNo: 2153537		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.91	0.050	1.000	0	91.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: **BLAGG**Work Order Number: **1909B65**

RcptNo: 1

Received By: **Yazmine Garduno**

9/21/2019 8:50:00 AM

*[Signature]*Completed By: **Yazmine Garduno**

9/21/2019 10:14:26 AM

[Signature]

Reviewed By:

VJ2 9/21/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

[Signature]

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good				

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1910106****03-Oct-19****Client:** Blagg Engineering**Project:** GCU 189

Sample ID: MB-47877	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 47877	RunNo: 63366								
Prep Date: 10/2/2019	Analysis Date: 10/2/2019	SeqNo: 2164835 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-47877	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 47877	RunNo: 63366								
Prep Date: 10/2/2019	Analysis Date: 10/2/2019	SeqNo: 2164836 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1910106**

03-Oct-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: LCS-47875	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47875	RunNo: 63364								
Prep Date: 10/2/2019	Analysis Date: 10/2/2019	SeqNo: 2163537	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: MB-47875	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47875	RunNo: 63364								
Prep Date: 10/2/2019	Analysis Date: 10/2/2019	SeqNo: 2163538	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910106

03-Oct-19

Client: Blagg Engineering

Project: GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: A63368	RunNo: 63368								
Prep Date:	Analysis Date: 10/2/2019	SeqNo: 2163864 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.9	77.4	118			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: A63368	RunNo: 63368								
Prep Date:	Analysis Date: 10/2/2019	SeqNo: 2163865 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	1200		1000		118	77.4	118			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 5 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1910106**

03-Oct-19

Client: Blagg Engineering**Project:** GCU 189

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: C63368	RunNo: 63368								
Prep Date:	Analysis Date: 10/2/2019	SeqNo: 2163921		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: C63368	RunNo: 63368								
Prep Date:	Analysis Date: 10/2/2019	SeqNo: 2163922		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1910106

RcptNo: 1

Received By: Juan Lopez 10/2/2019 8:10:00 AM

Completed By: Yazmine Garduno 10/2/2019 8:49:24 AM

Reviewed By: DM 10/2/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

- | | | | |
|--|---|--|--|
| 3. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA Vials <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (<2)

Adjusted? Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				

Chain-of-Custody Record

Client: **BLAGG ENGR. / BPX ENERGY**

Mailing Address: **P.O. BOX 87**

BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

email or Fax#:

QA/QC Package:

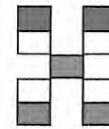
☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> SAME DAY </div>	
Project Name:		GCU # 189	
Project #:			
Project Manager:		SABRE BEEBE	
Sampler:		NELSON VELEZ	
On Ice:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 777	
Sample Temperature:		10.8 - 0.2 = 10.6	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date: 10/6/19	Time: 1310	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 10/11/19	Time 1310
Date: 10/11/19	Time: 1445	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 10-2-19	Time 8:10

Remarks:	<u>BILL DIRECTLY TO BPX USING THE CONTACT(S) BELOW. PO DELIVERED VIA EMAIL OR IS PENDING.</u>
----------	---

CONTACT: SABRE BEEBE / ERIN DUNMAN

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: **BLAGG ENGR. / BPX ENERGY**

Mailing Address: **P.O. BOX 87**
BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

email or Fax#:

QA/QC Package:

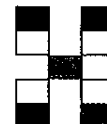
☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:		<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush		SAME DAY	
Project Name:					
GCU # 189					
Project #:					
Project Manager:					
SABRE BEEBE					
Sampler: NELSON VELEZ					
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Sample Temperature: 4.1 + 0.1 = 4.2					



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date: 9/20/19	Time: 1743	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 9/20/19	Time 1743
Date: 9/20/19	Time: 1837	Relinquished by: <i>[Signature]</i>	Received by: New owner	Date 9/21/19	Time 8:50

Remarks:	BILL DIRECTLY TO BPX USING THE CONTACT(S) BELOW. PO DELIVERED VIA EMAIL OR IS PENDING.
CONTACT:	SABRE BEEBE / ERIN DUNMAN

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

Action 18289

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 18289
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	10/19/2022