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	NRM2008344774
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BP America Production Co	OGRID: 778	Initial & Final Spill Report
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179	
Contact email: steven.moskal@bpx.com	Incident # *(assigned by OCD)*	
Contact mailing address: 1199 Main St., Suite 101, Durango CO, 81301		

Location of Release Source

Latitude: 36.922040° Longitude: -107.710337°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: JACQUEZ #002S	Site Type: Natural Gas Production Well Pad
Date Release Discovered: March 3, 2020	API#: 30-045-31905

Unit Letter	Section	Township	Range	County
P	06	T31N	R08W	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): **6.7**	Volume Recovered (bbls): 4.**5**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls):	Volume Recovered (bbls):
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
Release of produced water caused from cracked gas eliminator on water transfer line.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008344774
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ 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)? Steve Moskal to Cory Smith (cell phone – Voicemail) on October 14, 2019 at 2:00 PM	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Steve Moskal Title: Environmental Coordinator

Signature:  Date: March 12, 2020

email: steven.moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: Ramona Marcus Date: 3/23/2020

Incident ID	
District RP	
Facility ID	
Application ID	

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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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
- ☐ 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

Incident ID	
District RP	
Facility ID	
Application ID	

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: _____

email: steven.moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

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: Steve Moskal Title: Environmental Coordinator

Signature: _____ Date: _____

email: steven.moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	NRM2008344774
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: Steve Moskal Title: Environmental Coordinator

Signature:  Date: March 12, 2020

email: steven.moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: Ramona Marcus 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: _____

Based on the attached lab data and siting criteria, the release requires no further action. The area of the release will be amended with hydrocarbon enzymes and raked in place.

CLIENT: BPX

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

API #: 30-045-31905
TANK ID (if applicable): —

FIELD REPORT:

(circle one): BGT CONFIRMATION / (RELEASE INVESTIGATION) OTHER: PRODUCED WATER

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: JACQUEZ 002S
DATE STARTED: 3/4/2020
DATE FINISHED: 3/4/2020
QUAD/UNIT: P SEC: 6 TWP: 31N RNG: 8W PM: NM CNTY: SJ ST: NM
1/4 -1/4/FOOTAGE: 950 FSL x 815 FEL LEASE TYPE: (FEDERAL) / STATE / FEE / INDIAN
LEASE #: NMSF 078510 PROD. FORMATION: FC CONTRACTOR: —
ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.92204 x 107.71024 GL ELEV.: 6,486
1) RELEASE CENTER GPS COORD.: 36.92163 x 107.71033 DISTANCE/BEARING FROM W.H.: 146' S 22 W
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: ENVIROTECH

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	NE 5-pt Composite	3/4/2020	1405	TPH/BTEX/Cl⁻	0.0
2)	SW 5-pt Composite	"	1410	"	0.0
3)					
4)					

SOIL DESCRIPTION:

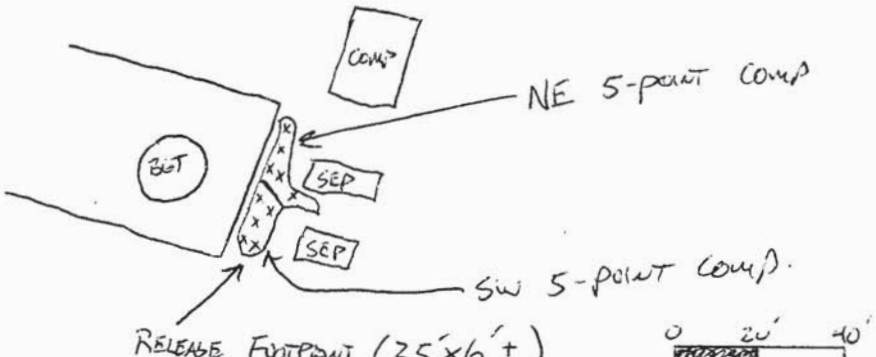
SOIL TYPE: SAND / (SILTY SAND) / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: TAN
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): (LOOSE) / FIRM / DENSE / VERY DENSE
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / (SATURATED) / SUPER SATURATED
SAMPLE TYPE: GRAB / (COMPOSITE) - # OF PTS. 5
DISCOLORATION/STAINING OBSERVED: YES / (NO) EXPLANATION -
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
HC ODOR DETECTED: YES (NO) EXPLANATION -
ANY AREAS DISPLAYING WETNESS: (YES) NO EXPLANATION - From Release

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: (YES) / NO EXPLANATION - VALVE
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: (YES) / NO EXPLANATION: Water Saturated Soils
EQUIPMENT SET OVER RECLAIMED AREA: (YES) / NO EXPLANATION - SEPARATOR
OTHER:
SOIL IMPACT DIMENSION ESTIMATION: 35' ft. X 6' ft. X 2" EXCAVATION ESTIMATION (Cubic Yards):
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000 NMOCD TPH CLOSURE STD: 1000/2500 ppm

SITE SKETCH

BGT Located: off / on site | PLOT PLAN circle: attached



N

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

MISCELL. NOTES

WO:
PO #:
PK:
PJ #:
Permit date(s):
OCD Appr. date(s):

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

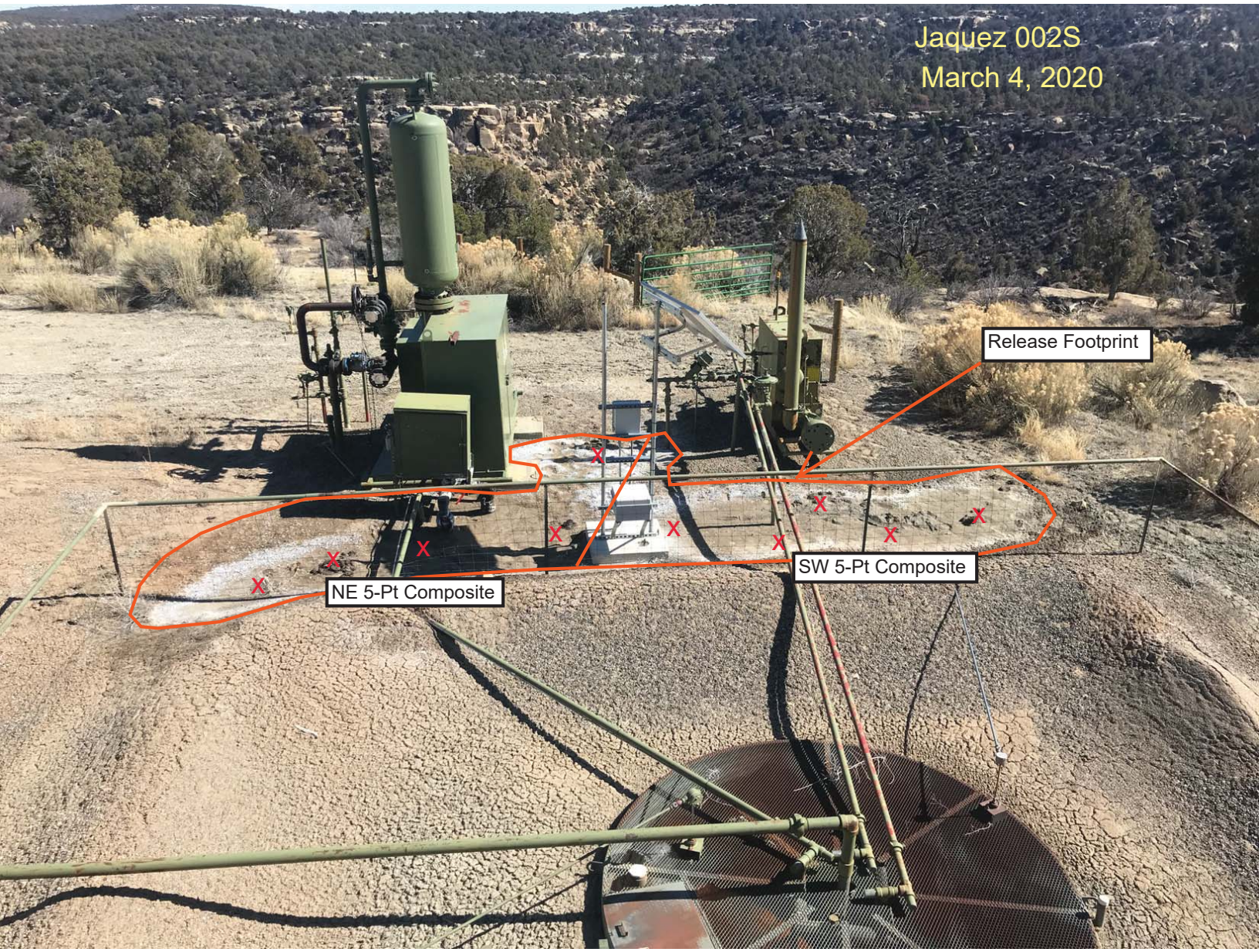
Magnetic declination: 10° E

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.

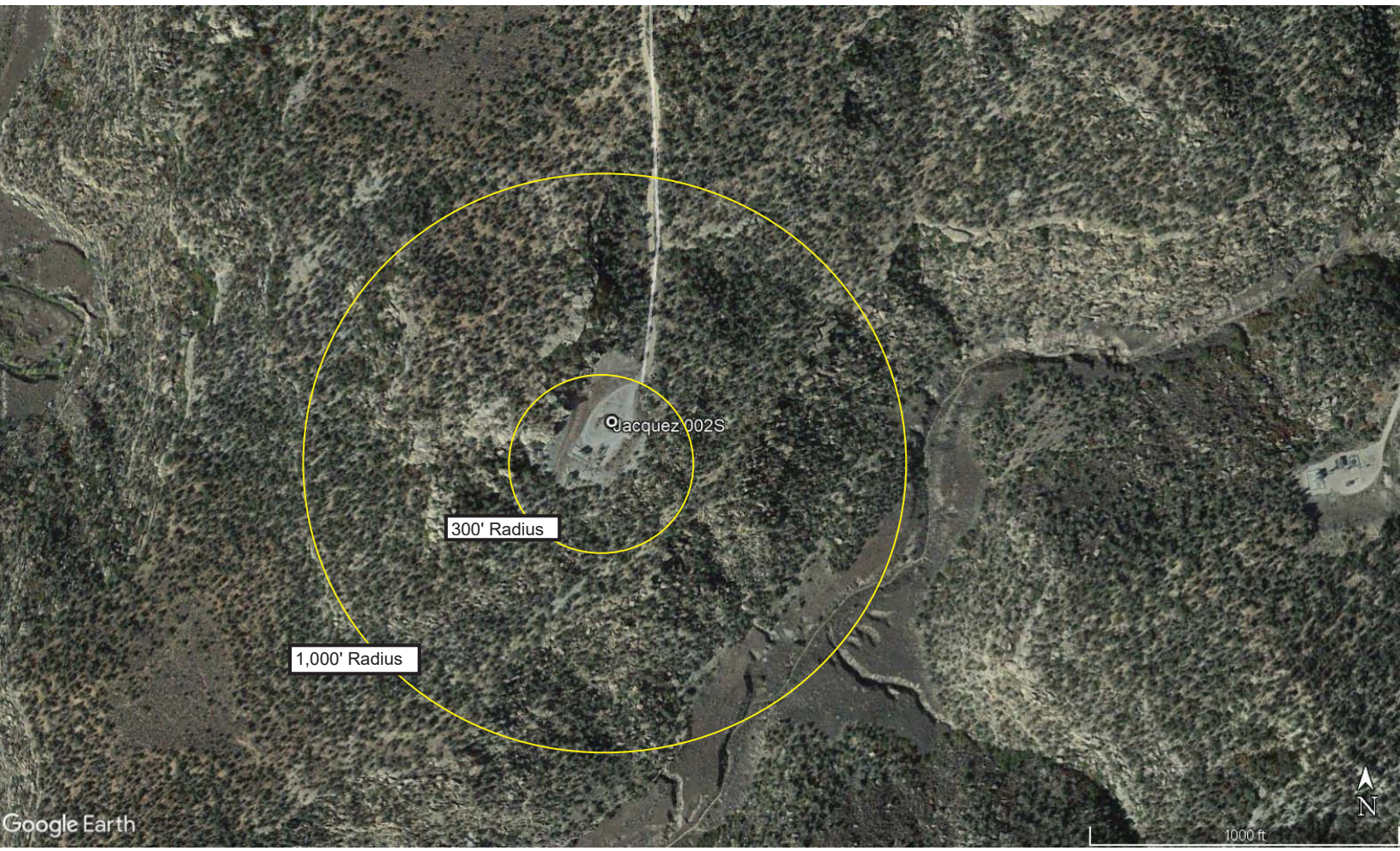
NOTES: ONSITE:

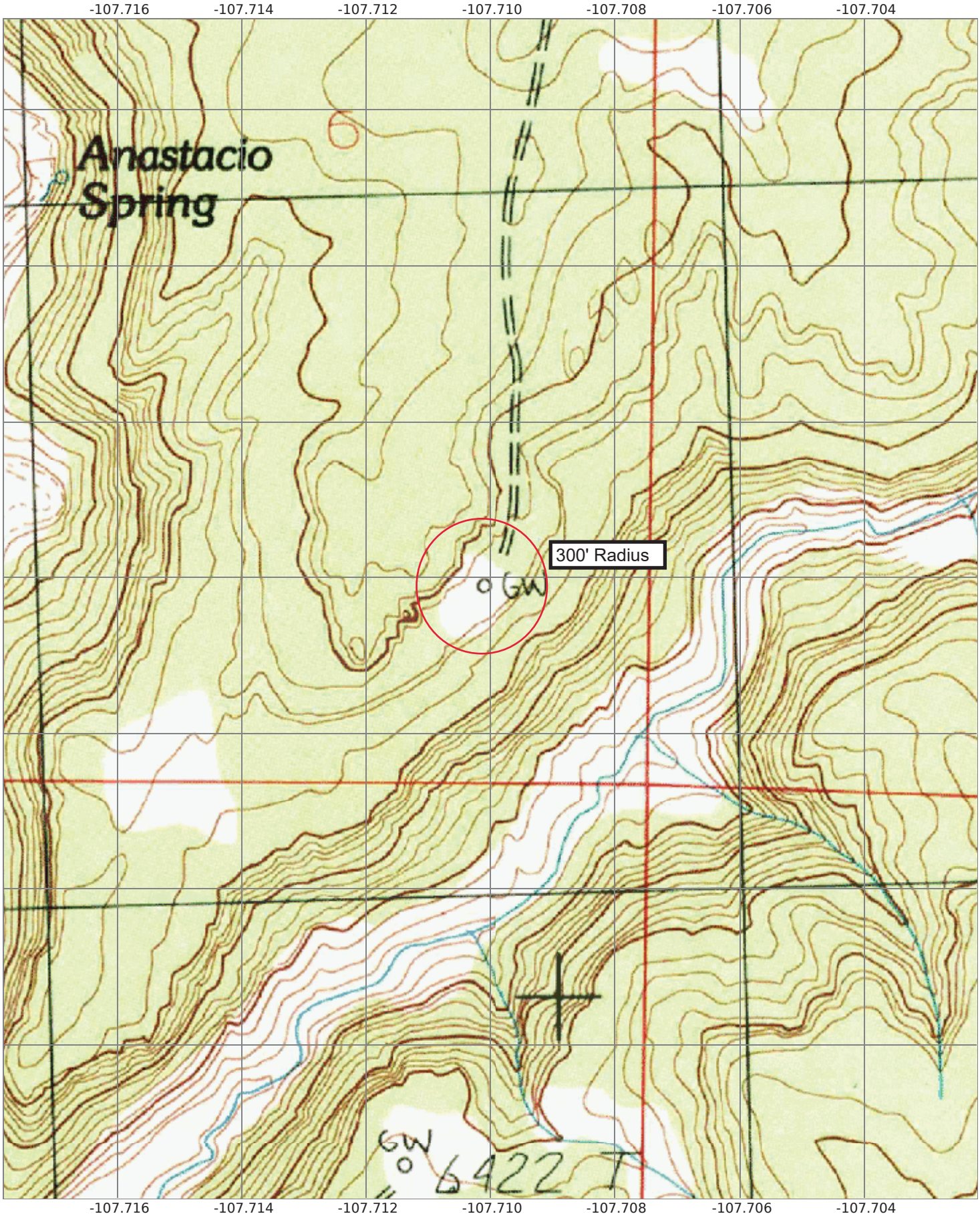
revised: 11/26/13


IN CASE OF EMERGENCY CALL
505-326-9200
OR
505-947-9900
BP AMERICA PRODUCTION COMPANY
JACQUEZ 002S
API 3004531905 LEASE NMSF078510
950 FSL 815 FEL (P) SEC 6 T31N R8W
San Juan County ELEV 6486
LAT 36° 55' 19.289"
LONG 107°42' 36.966"


Jaquez 002S
March 4, 2020
Release Footprint
SW 5-Pt Composite
NE 5-Pt Composite

NRM2008344774


Jacquez 002S
300' Radius
1,000' Radius
Google Earth
N
1000 ft



8.9°E
3/12/20

100 0 100 200 300 400 M 500

0.1 0 0.1 MI 0.2

Scale 1:7217 Datum WGS84

AllTrails

SITING AND HYDRO-GEOLOGICAL REPORT FOR JACQUEZ 001A

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 is 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 in between Arena and Rattlesnake Canyons, both tributaries of Pump Canyon. The elevation of the site is hundreds of feet higher than Pump Canyon. Regional topography of Pump Canyon is composed of mesas dissected by deep, narrow canyons and arroyos. The more resistant cliff-forming sandstones of the San Jose Formation cap the interbedded siltstones, shales and sandstones of the Nacimiento Formation. Accumulations of talus and eroded sands at the base of canyon walls form steep to gentle slopes that transition into flat-bottomed arroyos within the canyons. Deposits of Quaternary alluvial and eolian sands occur prominently near the surface of Pump Canyon, especially near streams and washes.

Regional Geology and Hydrology

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

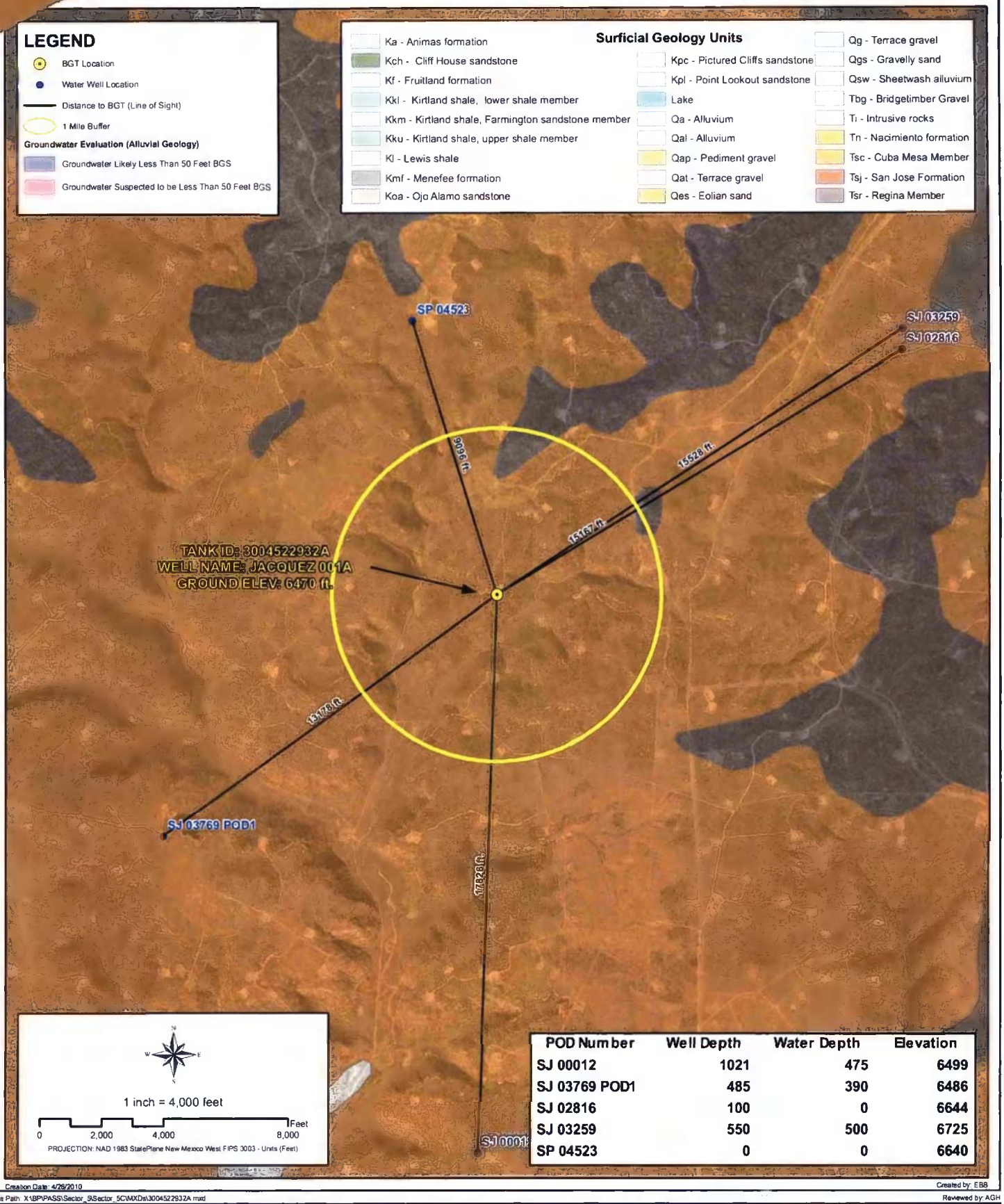
Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The San Jose Formation of Eocene age

occurs in both New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico border and overlies the Animas Formation in the general area north of the State Line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and shale. Thickness of the San Jose Formation increases from west to east. Groundwater is associated with alluvial and fluvial sandstone aquifers. The occurrence of groundwater is mainly controlled by distribution of sandstone in the formation. The reported or measured discharge from numerous water wells completed in the formation range from 0.15 to 61 gallons per minute (gpm) and with a median of 5 gpm. Most of the wells provide water for livestock and domestic purposes. The formation is suitable for recharge from precipitation due to overlying soils being sandy, highly permeable and absorbent. Low annual precipitation, relatively high transpiration and evaporation rates and deep dissection of the formation by the San Juan River and its main tributaries all tend to reduce the effective recharge to the formation. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation of Paleocene age are between 0 and 1000 feet deep in the majority of the basin as well (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



GROUNDWATER LESS THAN 50 FT.

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 1

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 03769 POD1	2	3	2	14	31N	09W	255236	4087366

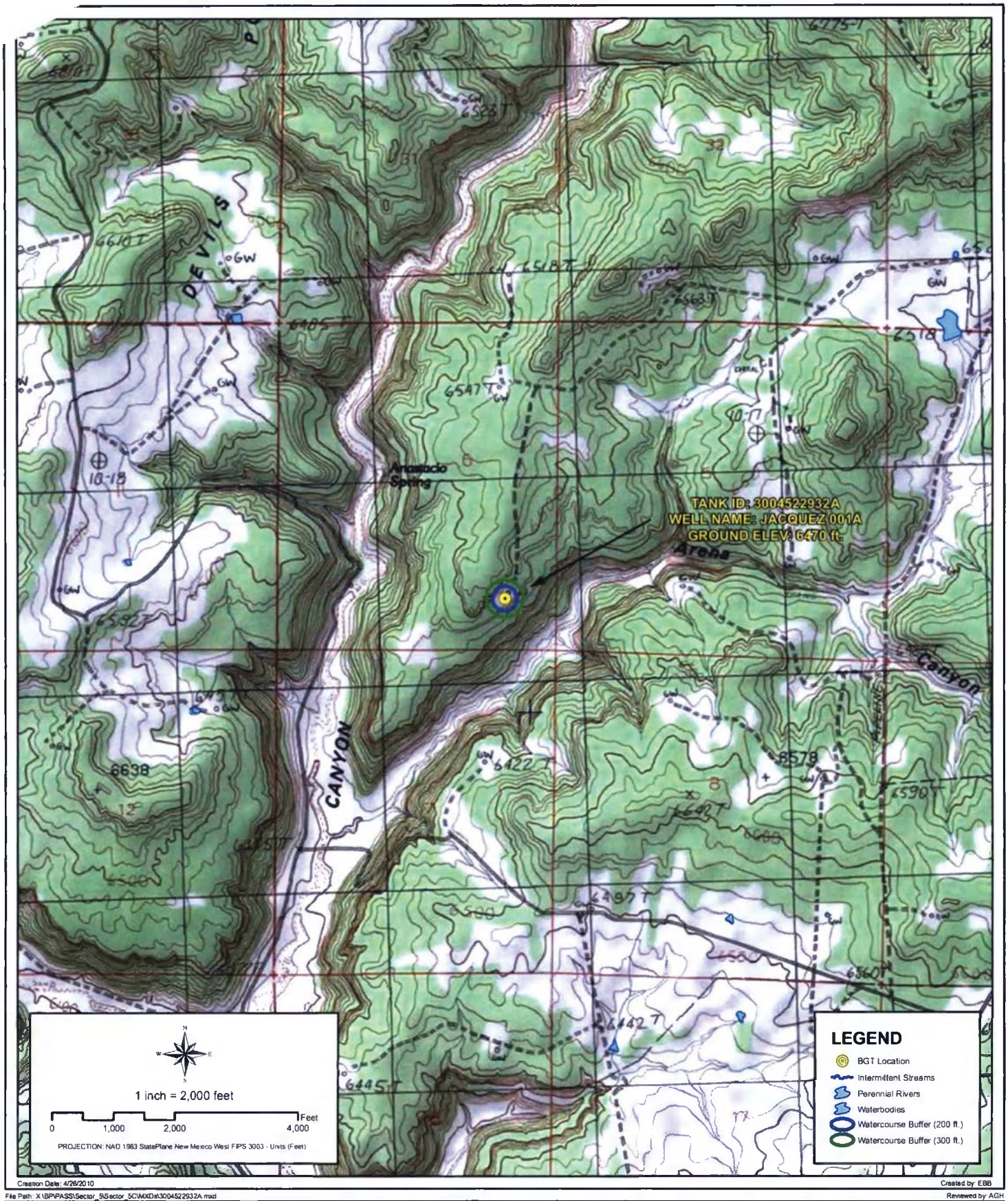
Driller License: 717 **Driller Company:** WESTERN WATER WELLS

Driller Name: HOOD, TERRY

Drill Start Date:	11/25/2006	**Drill Finish Date:**	11/28/2006	**Plug Date:**	
Log File Date:	11/30/2006	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	4.50	**Depth Well:**	485 feet	**Depth Water:**	390 feet

Water Bearing Stratifications:	Top	Bottom	Description
	395	455	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	385	485



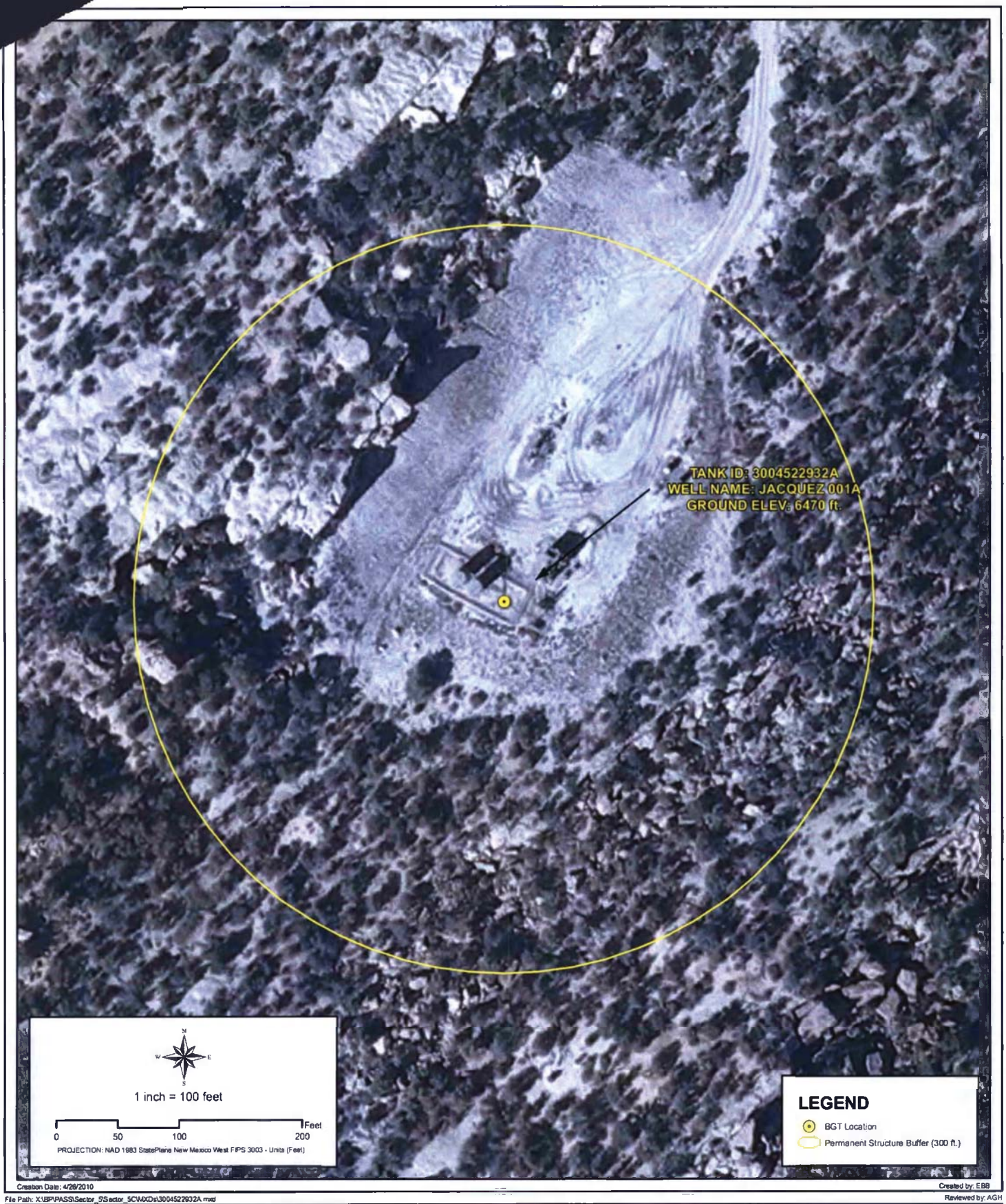
PROXIMITY TO WATERCOURSES

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 2



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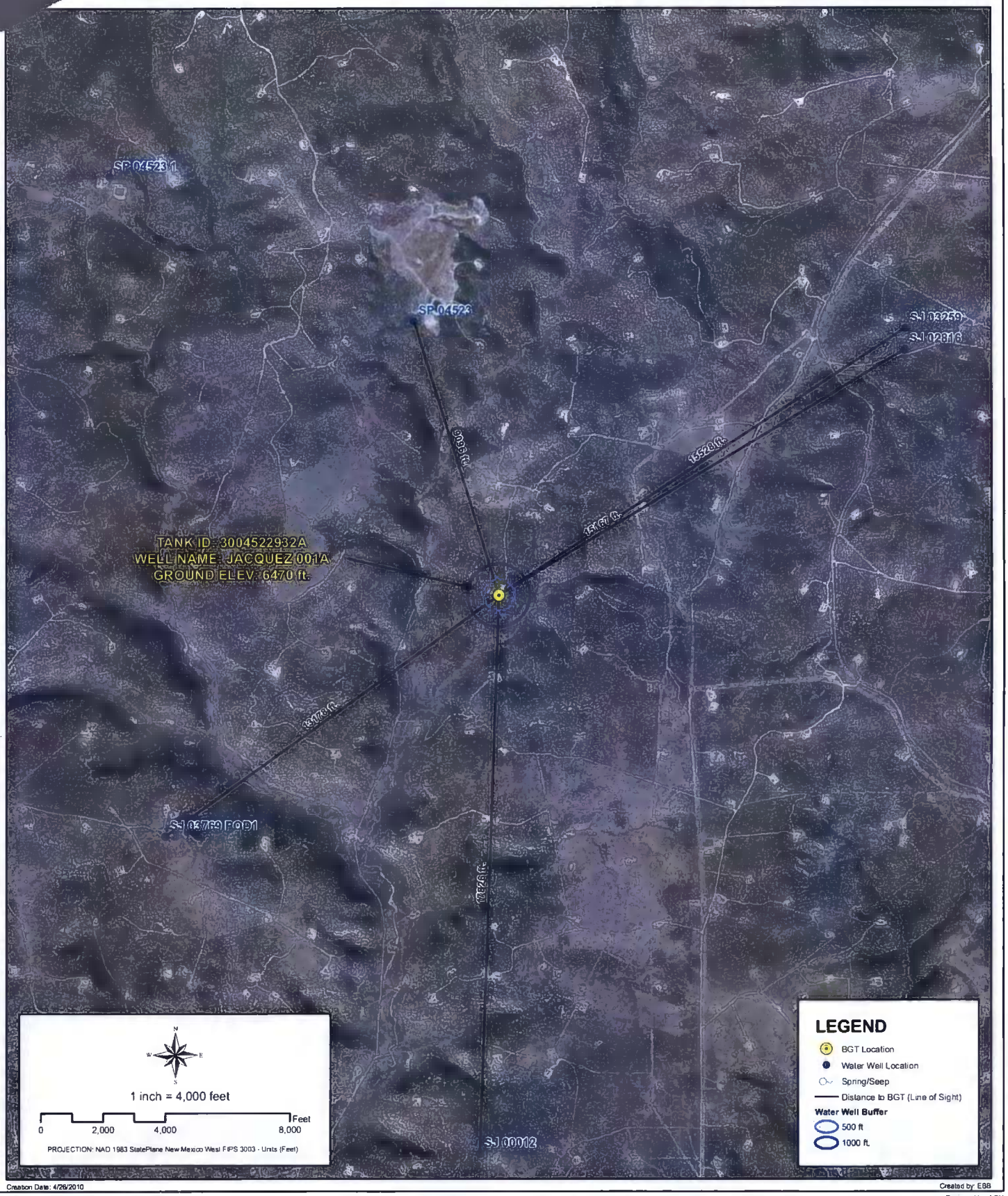
PROXIMITY TO PERMANENT STRUCTURE

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 3



Creation Date: 4/26/2010 Created by: EBB

File Path: X:\BP\PASS\Sector_5\Sector_5CWXDs\3004522932A.mxd Reviewed by: AGH

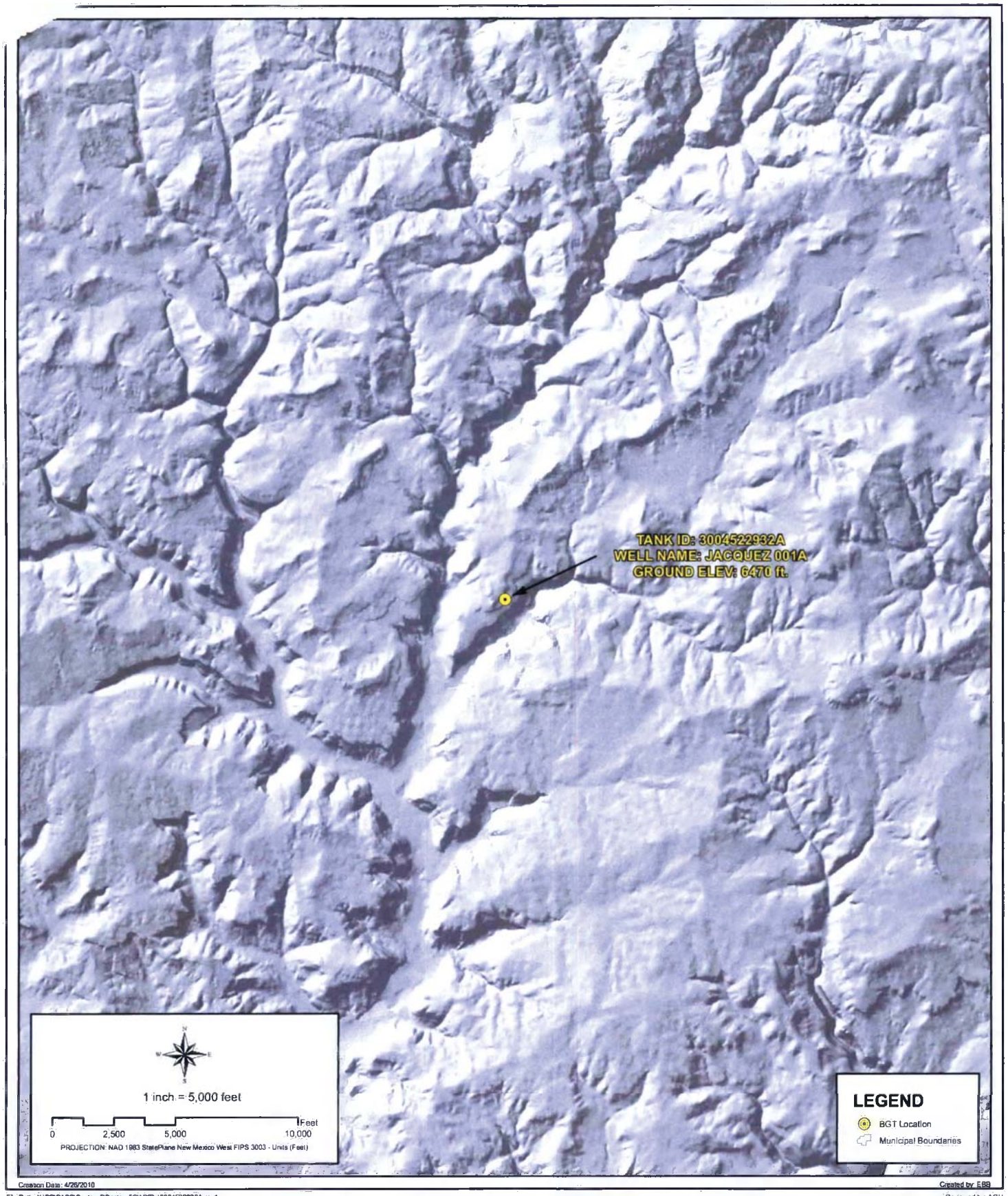
PROXIMITY TO WATER WELLS

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 4



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PROXIMITY TO MUNICIPAL BOUNDARY

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 5

bp

PROXIMITY TO WETLANDS

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M. NM23

FIGURE 6

bp

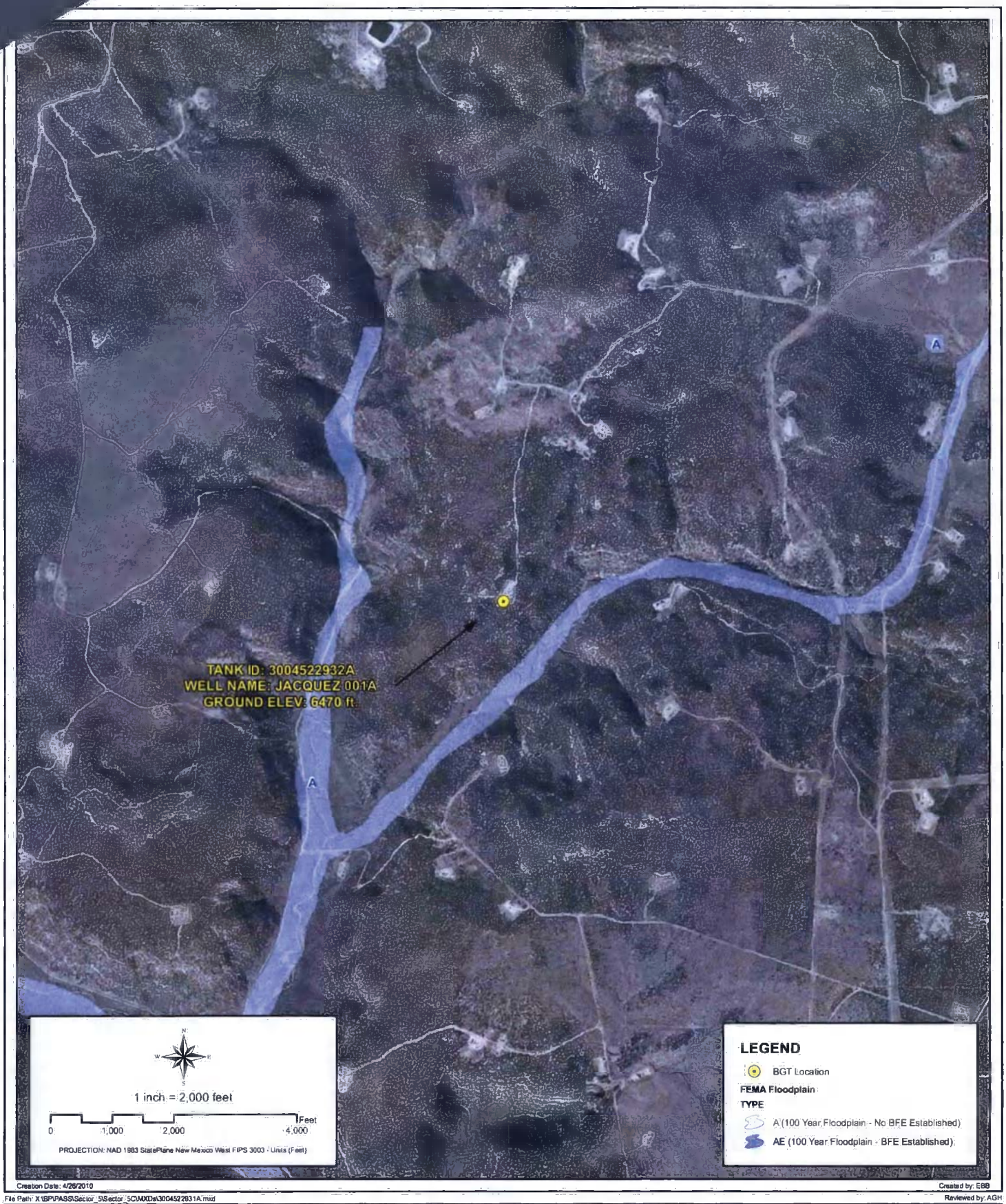
PROXIMITY TO SUBSURFACE MINES

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, P.M.NM23

FIGURE 7



bp

PROXIMITY TO FLOODPLAIN

WELL NAME: JACQUEZ 001A

API NUMBER: 3004522932 TANK ID: 3004522932A

SECTION 6, TOWNSHIP 31.0N, RANGE 08W, 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 Arizonia. 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.

Steven Moskal

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Thursday, March 5, 2020 7:26 AM
To: Steven Moskal
Cc: Blagg, Jefferey
Subject: RE: Jacquez 002S and Jacquez 002 Spill Sampling

Follow Up Flag: Follow up
Flag Status: Flagged

Steve,

OCD approves the sampling. Please include this approval in your final reports.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Steven Moskal <Steven.Moskal@BPX.COM>
Sent: Wednesday, March 4, 2020 2:10 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Blagg, Jefferey <jeffcblagg@aol.com>
Subject: [EXT] Jacquez 002S and Jacquez 002 Spill Sampling

Cory,

I had called earlier to discuss sampling the spills for potential closure.

The produced water release at the Jacquez 002S was discovered yesterday and measures approximately 35'x6'x2" deep with 1-2" of standing water, totaling 6.7 bbls. All water remained in pad. Approximately 4.5 bbls of water was recovered. API 03-045-31905. I propose to collect 2-5 point samples from this area at 0-3" depths to assess the impacts and for potential closure.

Today, at the Jacquez 002, a similar produced water spill was discovered measuring 11'x34'x2.5" deep and 2" of standing water. The release is estimated to be 11 bbls total. I propose the same 2-5 point composite samples with 0-3" depths to determine the impacts and for potential closure. API 30-045-27522.

I will try your phone once again. Jeff Blagg is currently in the field on site.

Steve Moskal
Environmental Coordinator
BP - West Business Unit
(505) 330-9179

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Analytical Laboratory

NRM2008344774

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 3/4/2020
Job Number: 03143-0424
Work Order: P003021
Project Name/Location: Jacquez 002S

Report Reviewed By: Walter Hinchman Date: 3/11/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE 5-Point Comp.	P003021-01A	Soil	03/04/20	03/04/20	Glass Jar, 4 oz.
SW 5-Point Comp.	P003021-02A	Soil	03/04/20	03/04/20	Glass Jar, 4 oz.

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

NE 5-Point Comp.
P003021-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*		*50-150*	*2010030*	*03/06/20*	*03/06/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**98.1**	25.0	mg/kg	1	2011003	03/09/20	03/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**359**	50.0	mg/kg	1	2011003	03/09/20	03/09/20	EPA 8015D	
Surrogate: n-Nonane		*105 %*		*50-200*	*2011003*	*03/09/20*	*03/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*		*50-150*	*2010030*	*03/06/20*	*03/06/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**362**	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

SW 5-Point Comp.
P003021-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*		*50-150*	*2010030*	*03/06/20*	*03/06/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**66.6**	25.0	mg/kg	1	2011003	03/09/20	03/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**185**	50.0	mg/kg	1	2011003	03/09/20	03/09/20	EPA 8015D	
Surrogate: n-Nonane		*89.3 %*		*50-200*	*2011003*	*03/09/20*	*03/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2010030	03/06/20	03/06/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*		*50-150*	*2010030*	*03/06/20*	*03/06/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**342**	20.0	mg/kg	1	2010036	03/06/20	03/09/20	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010030 - Purge and Trap EPA 5030A										
Blank (2010030-BLK1)				Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.32*		*"*	*8.00*		*104*	*50-150*			
LCS (2010030-BS1)				Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Benzene	4.74	0.0250	mg/kg	5.00		94.7	70-130			
Toluene	4.74	0.0250	"	5.00		94.9	70-130			
Ethylbenzene	4.72	0.0250	"	5.00		94.5	70-130			
p,m-Xylene	9.45	0.0500	"	10.0		94.5	70-130			
o-Xylene	4.78	0.0250	"	5.00		95.5	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.9	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.56*		*"*	*8.00*		*107*	*50-150*			
Matrix Spike (2010030-MS1)		**Source: P003020-01**		Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Benzene	4.44	0.0250	mg/kg	5.00	0.0901	86.9	54.3-133			
Toluene	5.15	0.0250	"	5.00	0.373	95.4	61.4-130			
Ethylbenzene	6.13	0.0250	"	5.00	1.08	101	61.4-133			
p,m-Xylene	15.9	0.0500	"	10.0	4.96	110	63.3-131			
o-Xylene	7.66	0.0250	"	5.00	1.97	114	63.3-131			
Total Xylenes	23.6	0.0250	"	15.0	6.93	111	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*9.53*		*"*	*8.00*		*119*	*50-150*			
Matrix Spike Dup (2010030-MSD1)		**Source: P003020-01**		Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Benzene	4.50	0.0250	mg/kg	5.00	0.0901	88.2	54.3-133	1.45	20	
Toluene	5.29	0.0250	"	5.00	0.373	98.4	61.4-130	2.80	20	
Ethylbenzene	6.39	0.0250	"	5.00	1.08	106	61.4-133	4.14	20	
p,m-Xylene	17.0	0.0500	"	10.0	4.96	121	63.3-131	6.65	20	
o-Xylene	8.18	0.0250	"	5.00	1.97	124	63.3-131	6.58	20	
Total Xylenes	25.2	0.0250	"	15.0	6.93	122	0-200	6.63	200	
Surrogate: 4-Bromochlorobenzene-PID	*9.53*		*"*	*8.00*		*119*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2011003 - DRO Extraction EPA 3570										
Blank (2011003-BLK1)				Prepared & Analyzed: 03/09/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*43.8*		*"*	*50.0*		*87.7*	*50-200*			
LCS (2011003-BS1)				Prepared & Analyzed: 03/09/20 1						
Diesel Range Organics (C10-C28)	413	25.0	mg/kg	500		82.6	38-132			
Surrogate: n-Nonane	*44.7*		*"*	*50.0*		*89.4*	*50-200*			
Matrix Spike (2011003-MS1)	**Source: P003033-01**			Prepared & Analyzed: 03/09/20 1						
Diesel Range Organics (C10-C28)	848	50.0	mg/kg	500	379	93.8	38-132			
Surrogate: n-Nonane	*53.4*		*"*	*50.0*		*107*	*50-200*			
Matrix Spike Dup (2011003-MSD1)	**Source: P003033-01**			Prepared & Analyzed: 03/09/20 1						
Diesel Range Organics (C10-C28)	847	50.0	mg/kg	500	379	93.6	38-132	0.130	20	
Surrogate: n-Nonane	*55.5*		*"*	*50.0*		*111*	*50-200*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010030 - Purge and Trap EPA 5030A										
Blank (2010030-BLK1)				Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.57*		"	*8.00*		*94.6*	*50-150*			
LCS (2010030-BS2)				Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		"	*8.00*		*94.7*	*50-150*			
Matrix Spike (2010030-MS2)		**Source: P003020-01**		Prepared: 03/06/20 0 Analyzed: 03/06/20 1						
Gasoline Range Organics (C6-C10)	215	20.0	mg/kg	50.0	121	189	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.85*		"	*8.00*		*111*	*50-150*			
Matrix Spike Dup (2010030-MSD2)		**Source: P003020-01**		Prepared: 03/06/20 0 Analyzed: 03/06/20 2						
Gasoline Range Organics (C6-C10)	234	20.0	mg/kg	50.0	121	227	70-130	8.30	20	M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.88*		"	*8.00*		*111*	*50-150*			

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010036 - Anion Extraction EPA 300.0/9056A										
Blank (2010036-BLK1)				Prepared: 03/06/20 1 Analyzed: 03/09/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2010036-BS1)				Prepared: 03/06/20 1 Analyzed: 03/09/20 1						
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2010036-MS1)		**Source: P003021-01**		Prepared: 03/06/20 1 Analyzed: 03/09/20 1						
Chloride	609	20.0	mg/kg	250	362	98.6	80-120			
Matrix Spike Dup (2010036-MSD1)		**Source: P003021-01**		Prepared: 03/06/20 1 Analyzed: 03/09/20 1						
Chloride	627	20.0	mg/kg	250	362	106	80-120	2.88	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Analytical Laboratory

BP America Production Co.	Project Name:	Jacquez 002S	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/11/20 11:48

Notes and Definitions

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

NRM2008344774

Project Information

Chain of Custody

Page 1 of 1

Client:	BPX ENERGY
Project:	JACQUEZ 0023
Project Manager:	STEVE MOSKAL
Address:	
City, State, Zip	
Phone:	
Email:	

Report Attention	
Report due by:	STANDARD
Attention:	STEVE MOSKAL / JEFF BLAGG
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
P003021	03143-0424					

State			
NM	CO	UT	AZ
X			
TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	6010 Total P	Remarks
1405	3/4/2020	SOIL	1	NE 5-POINT COMP.	1	X	X	X			X		
1410	"	"	1	SW 5-POINT COMP	2	X	X	X			X		

Additional Instructions: BILL BPX
USE 1H 2020 SPILL P.O.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jeff Blagg

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	3/4/2020	1602	Raina Lopez	3/4/20	16:02
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

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