

3R-1053

BP

Irvin Com #1E

Delineation C-141

05/08/18

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

State of New Mexico
Energy Minerals and Natural Resources

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

NMOCD

Form C-141
Revised August 8, 2011

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

DISTRICT III

Release Notification and Corrective Action

OPERATOR

Delineation Plan Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 380 Airport Road, Durango, CO 81303	Telephone No.: 505-330-9179
Facility Name: Irvin Com No. 001E	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 30-045-25841
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LOCATION OF RELEASE

Unit Letter E	Section 11	Township 29N	Range 13W	Feet from the 1,570	North/South Line North	Feet from the 1,110	East/West Line West	County: San Juan
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Latitude 36.7439° Longitude -108.18075°

NATURE OF RELEASE

Type of Release: Hydrocarbon – Underground Storage Tank	Volume of Release: unknown	Volume Recovered: none
Source of Release: Flowline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: April, 2013
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
During removal of an underground storage tank, hydrocarbon impacted soils were encountered. Impacted soils were excavated and removed from the location. Residual groundwater impacts were identified in December 2013 in a downgradient monitoring well. Soil vapor extraction points were installed to further remediate due to the proximity of property lines configuration of the site.

Describe Area Affected and Cleanup Action Taken.*
The vertical and lateral extents of the impacted soil were identified via a soil boring investigation. Soil vapor extraction points were installed and the system became operational in August 2015. Attached is the field data demonstrating the performance of the SVE system. The SVE continue to appear effective in reducing the contaminant concentration thus far. Attached is a groundwater delineation plan to determine the effectiveness of the system and influence downgradient.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <u>5/8/2018</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: April 5, 2018	Phone: 505-330-9179	

* Attach Additional Sheets If Necessary

NCS 1725738890
3 RP-1053.

BP Remediation Planning

To: Randy Bayliss, Cory Smitt, Vanessa Fields (NMOCD)
From: Steve Moskal (BP)
Date: 4/5/2018
Re: Irvin Com 001E –Groundwater Delineation Plan
API#30-045-25841 (E) S11, T29N, R13W; Lat. 36.743596, Long. -108.180520

The Irvin Com 001E site is an active natural gas production pad within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located in Farmington, NM on city owned property. Depth to groundwater is anticipated to be ~22' bgs (below ground surface).

GROUNDWATER DELINEATION PLAN

BP proposes to advance 2 soil boring to a maximum of 30 feet bgs. The borings will be advanced using a minimum 4" (ID) hollow stem auger or other recommended tooling adequate to accommodate 2" PVC groundwater monitoring wells. In each boring, 2-inch PVC well screen will be placed in the lower 10 foot portion of each soil boring with an attached riser to the surface for completion as an flush grade well monument. The base of the PVC is preferred to have a cone bottom or slip cap. Sand pack will be added to the boring annulus to 1' above the screened interval. Hydrated bentonite or slurry will be placed in the remainder of the boring to 1' bgs where cement will be used to seal the surface and final completion for the flush grade well protector. The well protectors will be lockable. The wells will be permitted through the New Mexico Office of the State Engineer Aztec Office by BP or its consultant.

During advancement of the well borings, soil samples will be collected for confirmation. The area of drilling was previously excavated and the soil treated via soil shredding. A soil sample will be collected every 5' or more frequent if possible. The soil samples will be field screened using a calibrated photoionization detector via an approved field headspace method. A minimum of one soil sample, likely at the groundwater interface, will be submitted for laboratory analysis, following handling and chain of custody protocols, for analysis of EPA Methods 8015 TPH (GRO, DRO and MRO), 8021 BTEX and 6010 chlorides. The soil samples with the highest PID from each boring along with the soil sample base of the boring or at the groundwater interface will be submitted for analysis. If contaminated soil is encountered, it will be collected and containerized for offsite disposal.

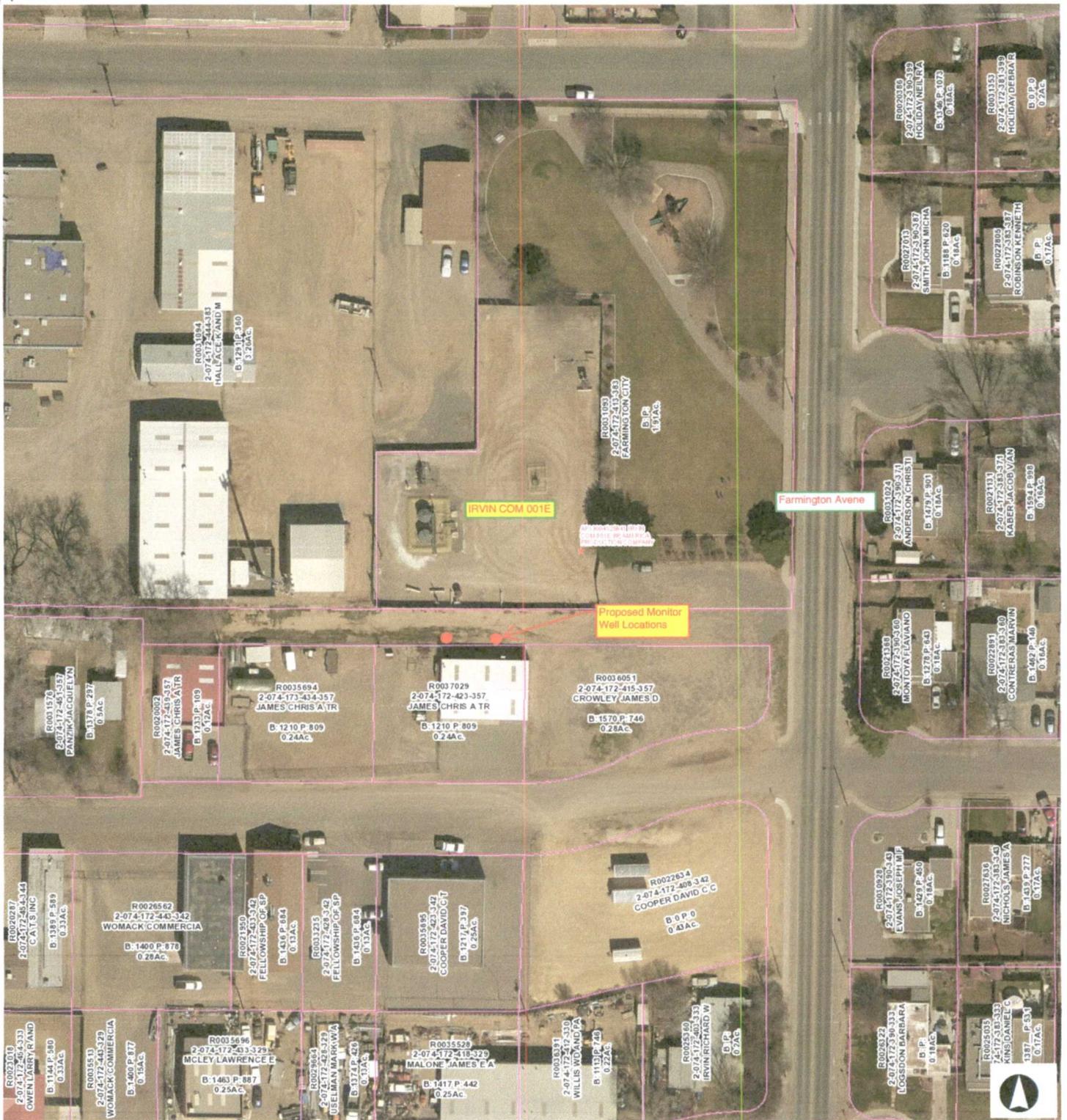
Once the well installation is complete and allowed to sit for a minimum of 24 hours, the wells will be monitored for water. If no water is present, the wells will then be rechecked in approximately 2 weeks. If water is present, the wells will be developed via a bailing and purging with a new, disposable bailer used in each well. The wells will be purged for a minimum of 3 well volumes and where field screening for temperature, conductivity and pH become stable for a minimum of three consecutive readings (within 10%). The purged water will be contained and disposed of in the nearby below grade tank.

The wells will then be allowed to sit for approximately 24 hours then purged of approximately three well volumes prior to sampling for EPA Method 8260 VOCs and General Water Chemistry via API General Chemistry methods (including pH, TDS, cations/anions), all following sample handling and chain of custody protocols.

Steve Moskal



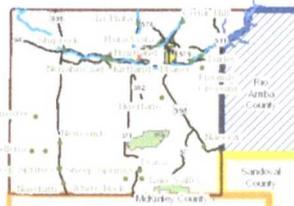
Environmental Coordinator



Notes

This map was automatically generated using Geocortex Essentials.

San Juan County GIS Department make no warranty to the accuracy, reliability, or completeness of this data represented. Data is collected from various sources.



Legend

- Communities
- Parcels Labels
- Rivers
- Lakes
- Municipality Sandoval
- Well Locations
- Parcels Boundary
- Navajo Lake
- Bordering Counties
- Rio Arriba

0.0 0 0.0 Miles