



**Ecosphere**  
Environmental Services

# Levey #100 Lateral Project Specific Data Sheet Best Management Practices

**Prepared for:**

**ConocoPhillips Company/Burlington  
Resources Oil and Gas Company, LP**

**February 2011**

Durango, CO  
Cortez, CO  
Pagosa Springs, CO  
Farmington, NM

1. **Project Surface Location:** Section 13, Township 32 North, Range 7 West, New Mexico Principal Meridian, La Plata County, Colorado; 1,546 feet FNL (from the north line) and 1,586 feet FWL (from the west line).

**Bottom Hole location:** Section 13, Township 32, Range 7 West, 710 feet FNL and 710 feet FWL.

2. **Project Description:** The proposed well pad would be approximately 330 feet by 400 feet including a 50-foot construction zone around the well pad for a total of 3.03 acres of disturbance. Burlington Resources Oil and Gas Company (Burlington), an affiliate of ConocoPhillips Company, proposes to utilize and re-enter the existing Levey #100 Fruitland coal well. The project would utilize an existing access road, precluding the construction of a new access road. The pipeline would connect on the well pad. The existing well pad for Levey #100 accounts for 0.52 acre and the reclaimed grassland associated with Levey #100 accounts for 0.91 acre of the proposed well pad. Total new surface disturbance associated with the project would be approximately 1.6 acres. Construction for the proposed project would commence in March 2011 and would take one month to completion. Reclamation of the proposed project area would commence in September 2011.

The proposed well pad project is located east of Indian Mesa, approximately 2.1 miles southwest of Colorado State Highway 151 near Tiffany, Colorado at an elevation of approximately 6,391 feet. The project area is located approximately 400 feet west of an irrigation ditch and approximately 900 feet west of an intermittent creek that eventually flows into Spring Creek. Spring Creek eventually flows into the Pine River 2.1 linear miles west of the project area. Slopes within the proposed well pad area are flat at the existing well and approximately 1-10 percent with an eastern aspect in the undisturbed area. A small drainage approximately 1–2 feet wide by 1 foot deep traverses east through the northern, undisturbed portion of the project area. Culverts have been installed at the road so the drainage can flow under the road.

Well plats that provide specific site descriptions and infrastructure information for the proposed project are provided as Attachment A. During drilling operations, all waste will be appropriately contained and disposed of properly. Section 5.0 of ConocoPhillips Company's Programmatic Stormwater Management Plan (SWMP 2007) addresses all waste management issues, including materials handling and off-site vehicle tracking procedures. Burlington has committed to strictly adhere to these procedures.

3. **Estimated Total Area of the Site to Undergo Clearing, Excavation, or Grading:** The maximum new disturbance associated with the proposed well pad would be approximately 1.6 acres. The total area of disturbance would be approximately 3.03 acres.
4. **Existing Soil Data and Estimated Runoff Coefficient Before and After Construction:** The San Jose Formation comprises the geology of the proposed project area. No cryptogamic crust occurs in the proposed well pad project area. Based on the Soil Survey of La Plata County, Colorado (NRCS 2010) soil in the proposed project area is Bodot clay, 3–10 percent slopes.

Bodot clay is a moderately deep, well-drained soil of hills. It formed in residuum derived from shale. Permeability is slow, available water capacity is low, runoff is medium, and the hazard of erosion is high. Effective rooting depth is 20–40 inches due to the presence of soft bedrock.

To estimate the runoff coefficient for the site before and after construction, Typical “C” Values (ASCE 1960) are located in Section C.2 of the State of Colorado Storm Water Management Plan Guidance Document (June 2005). The runoff coefficient for the project area is expected to vary between 0.1 and 0.30 (unimproved areas) and is not expected to change significantly following construction.

5. **Name of Receiving Water and Type of Outfalls:** The proposed project area would be located in the Upper San Juan watershed in the Upper Colorado region. The nearest perennial water indicated on the U.S. Geological Survey (USGS) topographic map for the project area is the Pine River, located approximately 2.1 miles west. Drainage from the proposed project would flow generally east to northeast. There are no perennial water sources, wetlands, seeps, or riparian areas within the proposed well pad.
6. **Description of Existing Vegetation and Estimate of Percent of Ground Cover:** A portion of the proposed well pad (1.43 acres) is located on disturbed terrain associated with existing oil and gas infrastructure. The remainder of the proposed well pad (1.6 acres) is located on undisturbed terrain. The vegetation community in the undisturbed terrain is a desert scrub community intermixed with piñon/juniper woodland. Vegetation cover was estimated at 50–60 percent. The vegetation community in the construction area and portions of the existing well pad is reclaimed grassland. Vegetation cover was estimated at 0–50 percent on the existing well pad. Dominant flora species in the undisturbed portion include big sagebrush (*Artemisia tridentata*) and Indian ricegrass (*Achnatherum hymenoides*). A few piñon pine (*Pinus edulis*) and juniper (*Juniperus osteosperma*) trees occur in the undisturbed portion. Dominant species in the disturbed, reclaimed portion include rubber rabbitbrush (*Ericameria nauseosa*), common sunflower (*Helianthus annuus*), crested wheatgrass (*Agropyron cristatum*), and James galleta (*Pleuraphis jamesii*). Piñon/juniper woodland, as well as agriculture land with natural gas well pads dominate the vicinity of the project area. Canada thistle (*Cirsium arvense*), a Colorado State listed noxious weed (List B), is present within the project area.
7. **Description of Potential Pollution Sources:** Potential pollution sources include accidental fuel, oil, and hydraulic fluid leaks from mechanical equipment and sediments in runoff.
8. **Description of Anticipated Non-stormwater Discharges:** Anticipated stormwater discharges include county road maintenance activities and dust control watering activities.
9. **Inspection/Monitoring:** Inspection/monitoring will be conducted according to the ConocoPhillips Programmatic SWMP.
10. **Project-specific BMPs\***

The following listed Best Management Practices (BMPs) are site-specific BMPs identified by Ecosphere Environmental Services (Ecosphere) during the field visit conducted January 4, 2011. A map with the project location and BMP locations is included as Attachment B. Site specific BMPs should be installed pre-construction and during the construction process. For further information on BMPs, please refer to Section 4 of the Programmatic SWMP.

**BMP 1:** Erosion control wattles should be placed from corner 2 to corner 3 (refer to well pad diagram for corner locations) along the eastern edge of the well pad in order to keep sediment from entering the drainage that is on the east side.

**BMP 2:** Erosion control should be placed around any stockpiled soil over 6 feet high or anything greater than a 2:1 slope. The topsoil stockpile area should have erosion control placed around the perimeter.

**BMP 3:** Burlington will be responsible for all seeding and weed control within the well pad lease according to the Programmatic SWMP and La Plata County guidelines.

**BMP 4:** All equipment will be contained within the existing and proposed disturbance in the well pad lease.

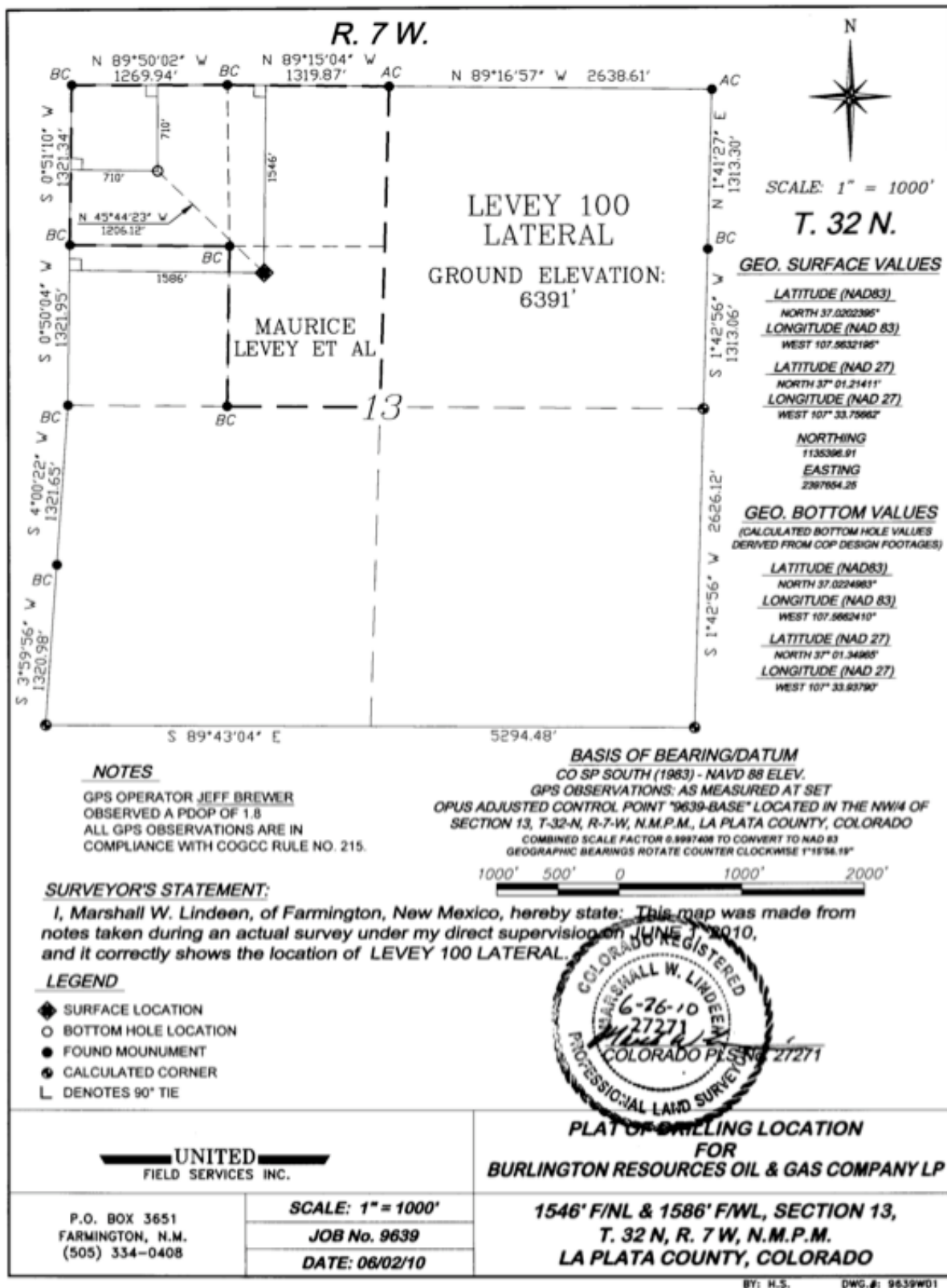
**BMP 5:** Soil roughening will occur along the well pad where applicable.

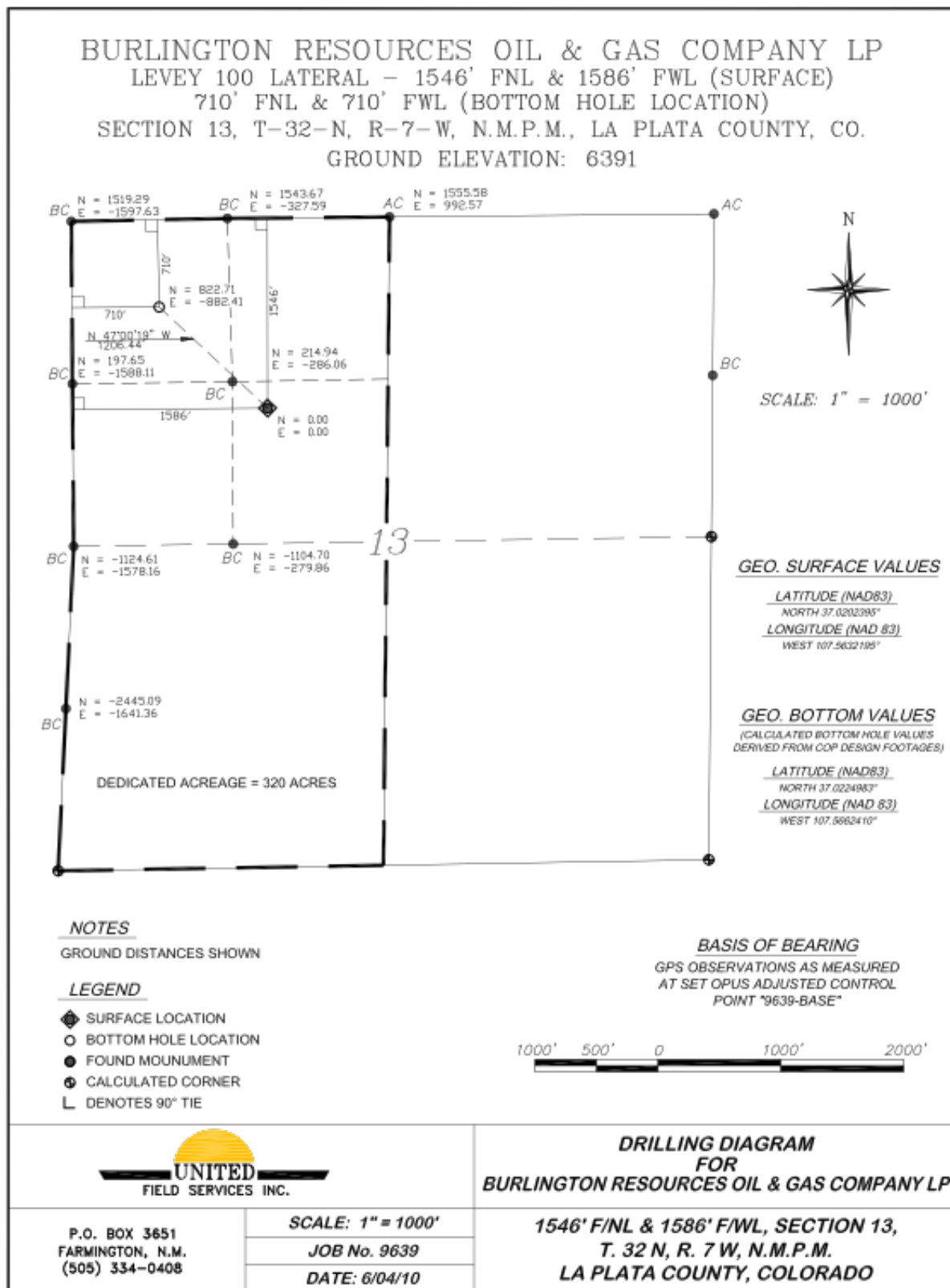
**BMP 6:** Burlington will be responsible for keeping the existing culvert at the road clean and free of debris.

**BMP 7:** Wattles should be placed downslope of the existing access road.

*\*Note: BMPs are subject to change once construction occurs. Future reports will reflect any changes.*

## **ATTACHMENT A – PROJECT PLATS**



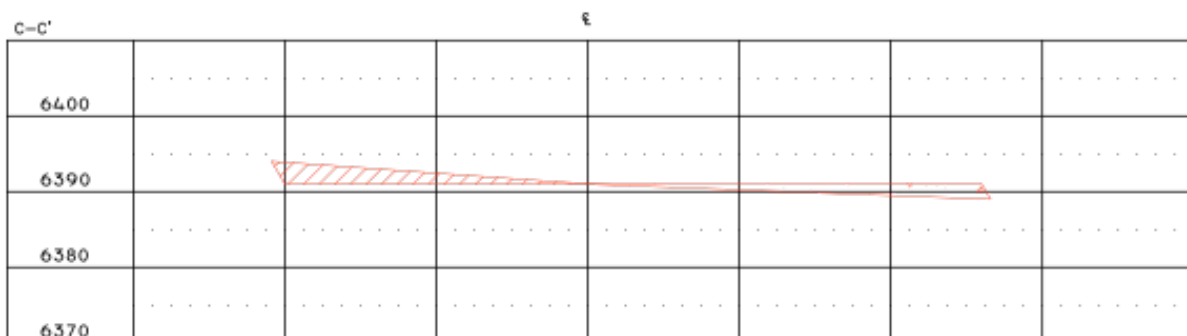
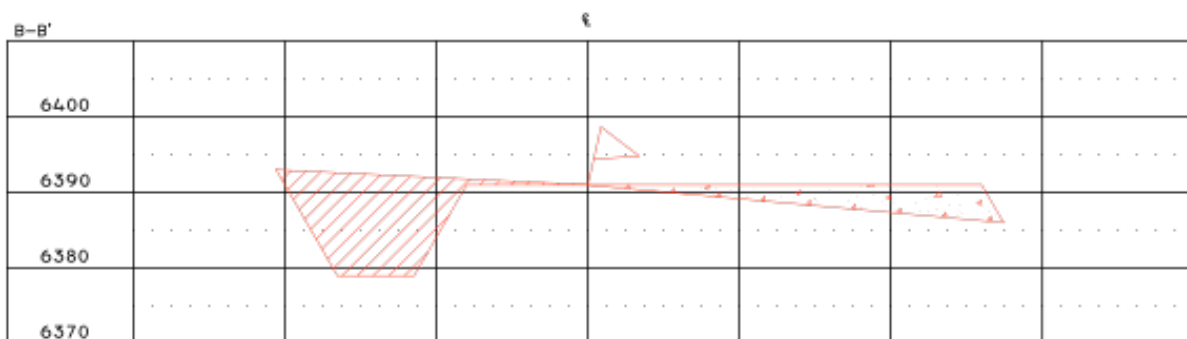
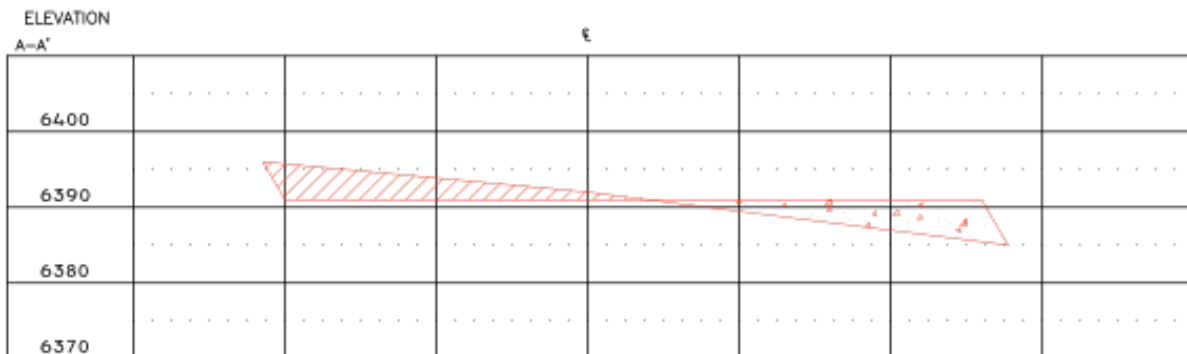








**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**LEVEY 100 LATERAL - 1546' FNL & 1586' FWL (SURFACE)**  
**710' FNL & 710' FWL (BOTTOM LOCATION LOCATION)**  
**SECTION 13, T-32-N, R-7-W, N.M.P.M., LA PLATA COUNTY, CO.**  
**GROUND ELEVATION: 6391 - DATE: JUNE 1, 2010**



1" = 50' - HORIZONTAL  
 1" = 20' - VERTICAL

**NOTES:**

1.) CONTRACTOR SHOULD CONTACT "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 6/01/10	REV. DATE:	APP. BY: M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 6/02/10	FILE NAME: 9639C01



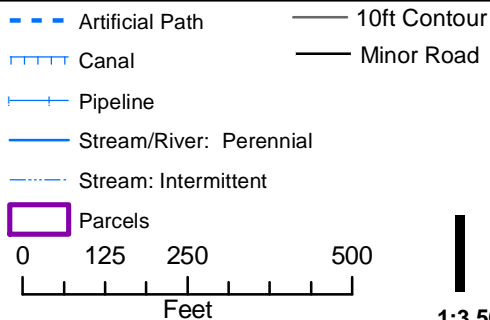
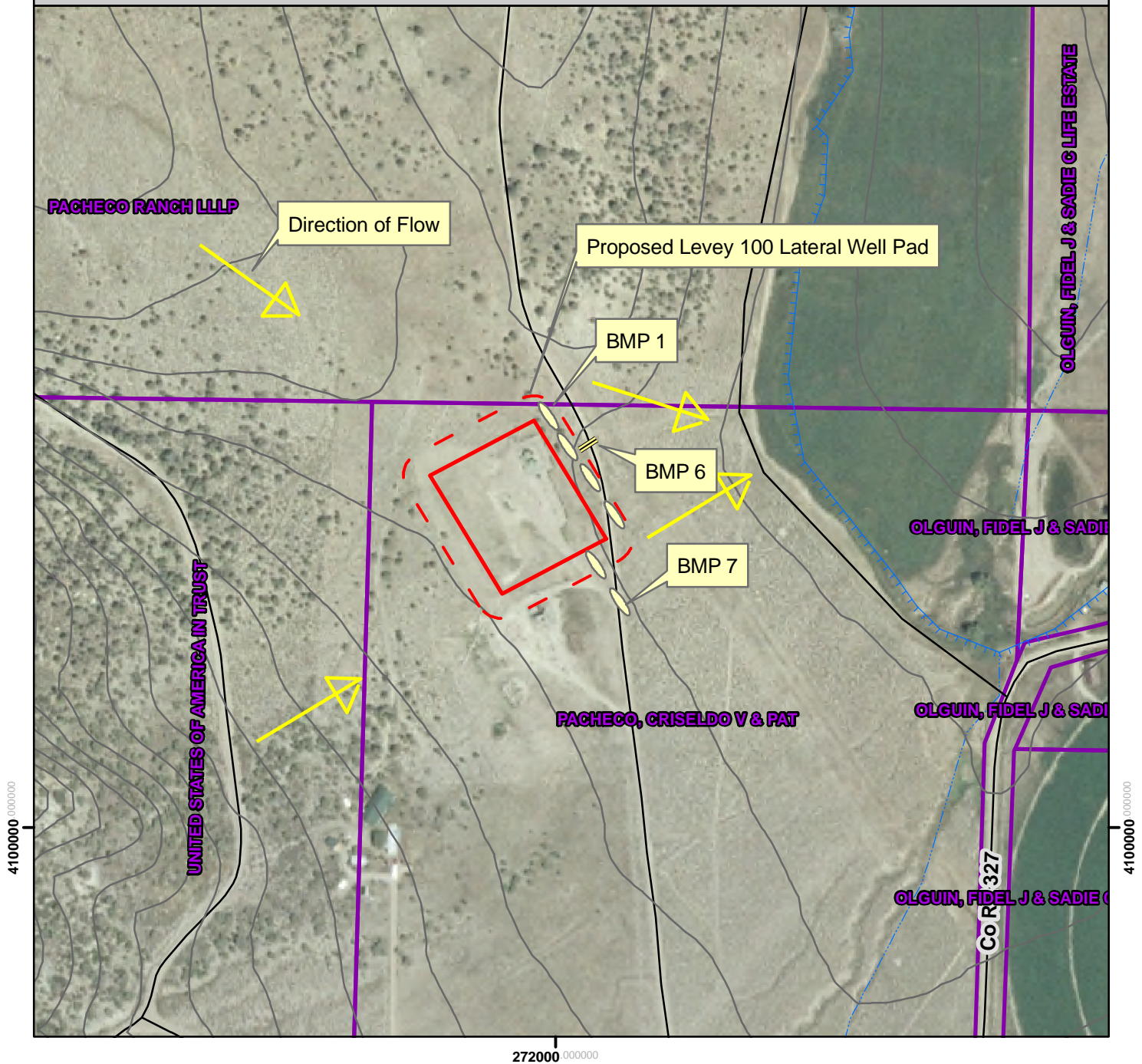
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## **ATTACHMENT B - PROJECT AREA MAP**



**Ecosphere**  
Environmental Services

**Burlington Resources Oil & Gas Co., LP**



**LEVEY 100 LATERAL**  
LA PLATA COUNTY, COLORADO  
BMP/Drainage Plan Map  
T32N, R7W Section 13  
Tiffany, CO Quadrangle  
Figure 5  
1/25/2011

UTM Zone 13 - NAD 83

Drainage Map