

# PROPOSED WILDLIFE BMP'S

## PARGIN #2-36 1,235' FSL & 1,130' FEL SESE Sec. 36, T33N, R7W, N.M.P.M

### General Operating Practices

- ❖ The Pargin #2-36 will be drilled from the existing Pargin #1-36 well pad to reduce surface disturbance impacts.
  - Reduces area necessary for well pad construction.
  - Utilize existing infrastructure for operations.
- ❖ A closed-loop mud system will be used during drilling operations.
- ❖ Surface equipment that could be potentially damaging to wildlife will be fenced with cattle panels.
  - Prevents wildlife entry to potentially harmful equipment.
- ❖ The access road will be gated in order to restrict general public access.
- ❖ Construction, drilling and completion activities will be scheduled to avoid critical winter use periods for deer and elk December 1 - April 15.
- ❖ Recycle drilling fluids.
  - Mud systems are dewatered, recycled and water is reused during drilling operations, reducing the amount of water needed to be trucked for drilling operations.
  - Mud can be transported to next drilling location, reducing truck traffic to dispose of drilling fluids.
- ❖ Adhere to the developed weed management plan pursuant to both the La Plata County Land Use Code and Colorado Noxious Weed Act.
  - Protects the productivity of adjacent wildlife habitats.
- ❖ Screen exhaust and vent stacks to preclude avian perching.
- ❖ Standard wildlife friendly seed mixes developed by the CDOW specifically for the San Juan Basin will be used for reclamation.
- ❖ Educate employees and contractors on wildlife conservation practices, including no harassment or feeding of wildlife.
- ❖ Forbid use of firearms and dogs on location.
- ❖ Utilize bear proof dumpsters and trash receptacles for food related trash at all facilities that generate such trash.

**PROPOSED BMP'S  
XTO ENERGY, INC.**

**Certificate to Discharge Under CDPS General Permit No. COR-03000  
Stormwater Discharges Associated with Construction Certification No.  
COR03C483**

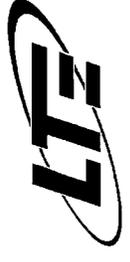
- A Field Wide Stormwater Management Plan (SWMP) for the La Plata Infill Program is on file at the XTO Energy Inc. office. A Site Specific SWMP with a Site Plan will be developed for each location.
- Inspections of the project site and maintenance of BMP's installed shall be conducted in accordance with the CDPHE CDPS permit & field wide plan.
- Spill Prevention and Counter Measures (SPCC) for the La Plata Infill Program is on file at the XTO Energy Inc. office. The Field SWMP and Site Specific SWMP each address SPCC during construction operations.
- See attached diagram for site specific BMP's.

**TABLE 3  
STRUCTURAL AND NON-STRUCTURAL BMP CLASSIFICATION**

LA PLATA INFILL PROGRAM  
XTO ENERGY, INC.

| NON-STRUCTURAL BMPs   |   |  |
|---|---|--|
| Program Oversight   | Construction Site Planning and Management   | Good Housekeeping/Materials Management   |
| Construction Phase Plan Review<br>Contractor Training and Certification<br>Database Development and Maintenance | Timing of projects<br>Construction Sequencing<br>Site Operator BMP Inspection and Maintenance Training<br>Preserving Natural Vegetation/Buffer<br>Minimize Final Pad Site Acreage | General Construction Site Waste Management<br>Spill Prevention, Control Plan and Countermeasures |

| STRUCTURAL BMPs   |  |  |
|---|--|--|
| Erosion Control   | Sediment Control   | Runoff Control   |
| Dust Control<br>Erosion Control Blanket<br>Gravel Surfacing<br>Mulching<br>Retaining Wall<br>Revegetation<br>Riprap<br>Slope Stabilization<br>Surface Roughening/Ripping<br>Terracing<br>Vegetated Buffer | Brush Matting<br>Filter Berm<br>Land Grading<br>Level Spreader<br>Silt Fence<br>Stabilized Construction Entrance<br>Straw Bale Barrier<br>Vegetated Buffer<br>Wattle<br>Wind Fence | Berm<br>Check Dam<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Roadside Ditch<br>Slope Drain<br>Turnout<br>Water Bar |



**TABLE 2  
BMP SELECTION GUIDELINES**

**LA PLATA INFILL PROGRAM  
XTO ENERGY, INC.**

| ACTIVE  | COMPLETED   | FINAL STABILIZATION  |
|---|---|--|
| <b>Compressor Station, Pipelines</b>  |   |  |
| Berm<br>Brush Matting<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Erosion Control Blanket<br>Filter Berm<br>Gravel Surfacing<br>Land Grading<br>Level Spreader<br>Retaining Wall<br>Revegetation<br>Riprap<br>Roadside Ditches<br>Silt Fence<br>Slope Drain<br>Stabilized Construction Entrance<br>Straw Bale Barrier<br>Surface Roughening / Ripping<br>Terracing<br>Turnouts<br>Vegetated Buffer<br>Water Bar<br>Wattles<br>Wind Fence | Berm<br>Brush Matting<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Erosion Control Blanket<br>Filter Berm<br>Gravel Surfacing<br>Level Spreader<br>Retaining Wall<br>Riprap<br>Roadside Ditches<br>Silt Fence<br>Slope Drain<br>Straw Bale Barrier<br>Terracing<br>Vegetated Buffer<br>Water Bar<br>Wattles<br>Wind Fence | Berm<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Filter Berm<br>Gravel Surfacing<br>Retaining Wall<br>Revegetation<br>Riprap<br>Roadside Ditches<br>Slope Drain<br>Terracing<br>Water Bar |
| <b>Access Roads</b>   |   |  |
| Berm<br>Brush Matting<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Erosion Control Blanket<br>Filter Berm<br>Gravel Surfacing<br>Land Grading<br>Level Spreader<br>Retaining Wall<br>Revegetation<br>Riprap<br>Roadside Ditches<br>Silt Fence   | Berm<br>Brush Matting<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Erosion Control Blanket<br>Filter Berm<br>Gravel Surfacing<br>Level Spreader<br>Retaining Wall<br>Riprap<br>Roadside Ditches<br>Silt Fence<br>Slope Drain<br>Straw Bale Barrier  | Berm<br>Check Dams<br>Culverts<br>Culvert Protection<br>Diversion Ditch/Ditch&Berm<br>Drainage Dip<br>Filter Berm<br>Gravel Surfacing<br>Retaining Wall<br>Revegetation<br>Riprap<br>Roadside Ditches<br>Slope Drain<br>Water Bar              |



**TABLE 2  
BMP SELECTION GUIDELINES**

**LA PLATA INFILL PROGRAM  
XTO ENERGY, INC.**

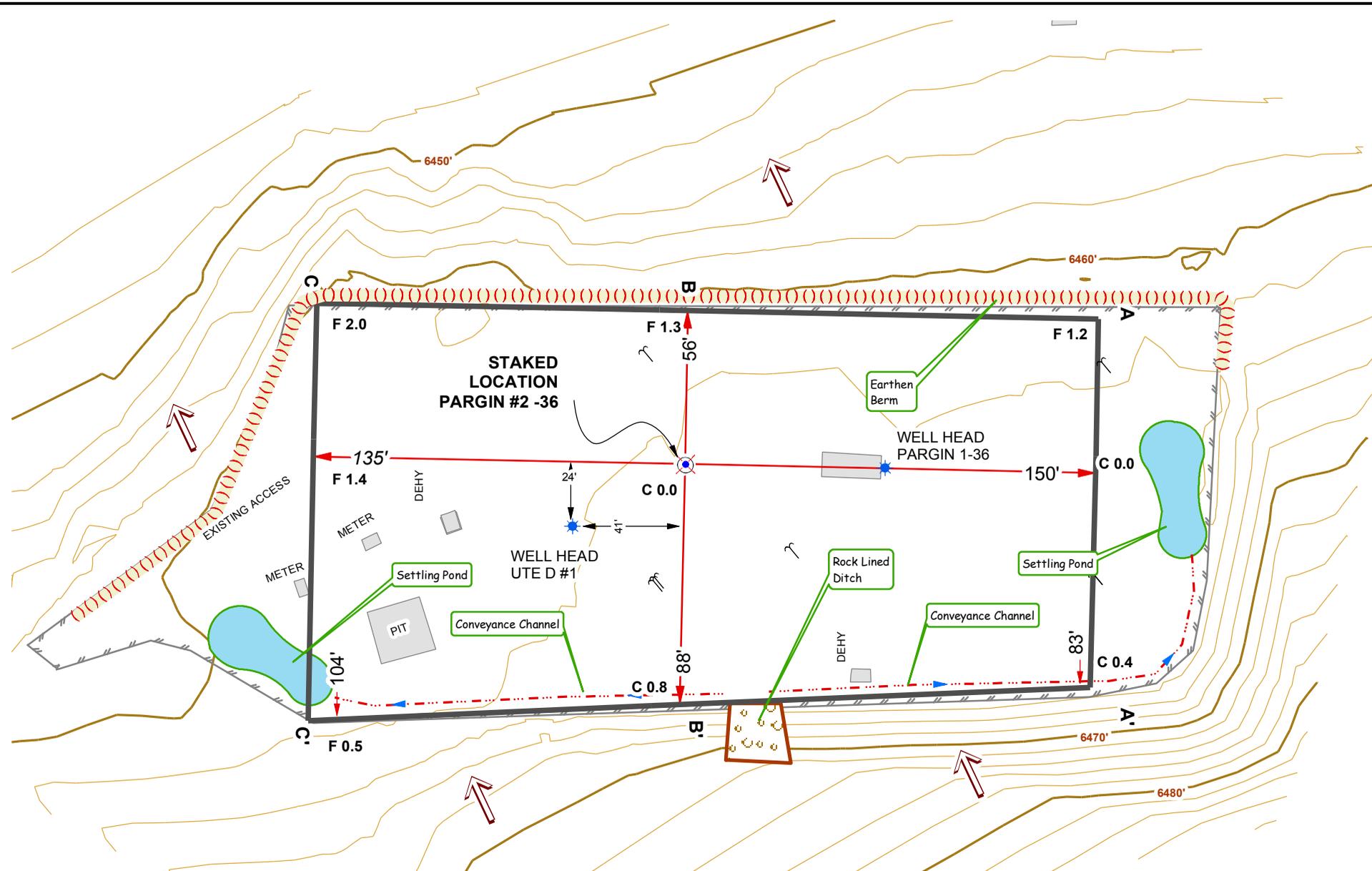
| ACTIVE  | COMPLETED  | FINAL STABILIZATION |
|---|--|---------------------|
| <b>Access Roads (continued)</b>   |  |                     |
| Slope Drain<br>Stabilized Construction Entrance<br>Straw Bale Barrier<br>Surface Roughening/Ripping<br>Turnouts<br>Vegetated Buffer<br>Water Bar<br>Wattles<br>Wind Fence | Vegetated Buffer<br>Water Bar<br>Wattles<br>Wind Fence |                     |

**Notes:**

BMP = Best Management Practice



**GRADING AND DRAINAGE PLAN**  
**XTO ENERGY INC., PARGIN #2-36**  
**SURFACE HOLE: 1,235' FSL, 1,130' FEL**  
**SECTION 36, T-33-N, R-07-W, N.M.P.M.,**  
**LA PLATA COUNTY, COLORADO**



**Legend**

**INSTALL BMP LINES**

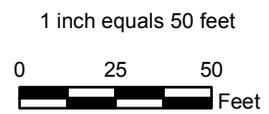
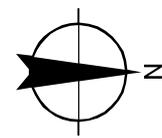
- CONVEYANCE CHANNEL
- EARTHEN BERM

**INSTALL BMP AREAS**

- ROCK\_LINED\_DITCH
- SETTLING POND
- SLOPE DIRECTION
- EXIST RIG ANCHOR
- WF PARGIN 2-36
- EXISTING WELL HEAD
- PAD DIMENSION
- PROPOSED PAD
- 400 FT PAD BUFFER
- EXISTING STRUCTURES
- EXISTING WELLPAD AREA
- 2 FT. CONTOUR
- 10 FT. CONTOUR

**NOTES:**

- Reference BMP plan, LT Environmental, J. Linn, 4-27-10
- DATE OF SURVEY April 27, 2010
- Elevation Datum = NAVD88
- THE LOCATIONS OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE, ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.



6/23/10 XENO78 RECLAIM.MXD

**JMAS**  
 JOHNSON MAPPING  
 AND SURVEYING, LLC  
 PO BOX 2174  
 FARMINGTON NM 87499-2174  
 505-360-8029  
 ALEX@JOHNSONMAPPING.BIZ