Montana Board of Oil and Gas Conservation
Environmental Assessment

Operator: Weil Oil, LLC
Well Name/Number: Weil-Bridges 2
Location: SE NE Section 15 T30N R48E
County: Roosevelt **, MT; Field (or Wildcat)** Wildcat

Air Quality

(possible concerns)
Long drilling time: No, 15-20 days drilling time.
Unusually deep drilling (high horsepower rig): Double derrick rig 600 HP to drill to 7600' TD.
Possible H2S gas production: Yes, low concentration.
In/near Class I air quality area: Yes, in a Class I air quality area, within Fort Peck Indian Reservation boundaries, rig won't be on location long.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:
X Air quality permit (AQB review)
___ Gas plants/pipelines available for sour gas
__ Special equipment/procedures requirements
__ Other:_____

Comments: Small single derrick drilling rig, 600 HP and will not be on any location longer than 20 days._____
_____

Water Quality

(possible concerns)
Salt/oil based mud: No, freshwater drilling fluids for the surface hole and main hole.
High water table: None anticipated.
Surface drainage leads to live water: No, closest surface drainage nearby is Boxelder Creek, about 1/4 of a mile to the east southeast from this location,
Water well contamination: According to GWIC, 3 shallow water wells within in the section. Domestic water wells about 30-43' deep. Surface hole will be drilled with freshwater and steel casing set to 800' and cemented back to surface. To protect shallow groundwaters.
Porous/permeable soils: No, sandy silty clay soils.
Class I stream drainage: No, Class I stream drainages.

Mitigation:
X Lined reserve pit
X Adequate surface casing
__ Berms/dykes, re-routed drainage
__ Closed mud system
__ Off-site disposal of solids/liquids (in approved facility)
__ Other: _____

Comments: 800' surface casing well ensure shallow ground water aquifers are isolated. Adequate surface casing and BOP equipment to prevent problems.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: None anticipated.
High erosion potential: No, a small cut, up to 3.6' and small fill, up to 2.4', required.
Loss of soil productivity: None, location to be restored after drilling well, if nonproductive. If productive

unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, small well site 300'X300'
Damage to improvements: Slight, surface use is a grazing.
Conflict with existing land use/values: Slight

Mitigation
__ Avoid improvements (topographic tolerance)
__ Exception location requested
X Stockpile topsoil
__ Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
__ Special construction methods to enhance reclamation
__ Other _____

Comments: Existing access off county road. A short access from the existing county road into location will be constructed. Cuttings will be buried in the lined reserve pit. Drilling fluids will be recycled to the next location. Completion fluids will be hauled to a approved disposal. Reserve pit will be allowed to dry and mixed buried with subsoil . The subsoil clays will be used to solidify the drill cuttings and fill the reserve pit.

Health Hazards/Noise

(possible concerns)
Proximity to public facilities/residences: Closest residence is about 3/8 of a mile to the east from this location..
Possibility of H2S: Yes, low concerntrations.
Size of rig/length of drilling time: Double derrick drilling rig 15 to 20 days drilling time.

Mitigation:
X Proper BOP equipment
__ Topographic sound barriers
__ H2S contingency and/or evacuation plan
__ Special equipment/procedures requirements
__ Other:_____
Comments: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems.

Wildlife/recreation

(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species: Only threatened and endangered species listed are the Pallid Sturgeon, Interior Least Tern, Piping Plover and Whooping Crane.

Mitigation:
__ Avoidance (topographic tolerance/exception)
__ Other agency review (DFWP, federal agencies, DSL)
__ Screening/fencing of pits, drillsite
__ Other:_____
Comments: No concerns. Private cultivated surface lands, with no live water nearby.

Historical/Cultural/Paleontological

(possible concerns)
Proximity to known sites: None identified.

Mitigation
__ avoidance (topographic tolerance, location exception)
__ other agency review (SHPO, DSL, federal agencies)
__ Other:_____
Comments: Private cultivated surface lands. No concerns.

Social/Economic

(possible concerns)
__ Substantial effect on tax base
__ Create demand for new governmental services
__ Population increase or relocation
Comments: No concerns._____

Remarks or Special Concerns for this site

Nisku Formation test 7600' TD. _____

Summary: Evaluation of Impacts and Cumulative effects

No long term impact expected with the drilling of this well, some short term impacts are expected.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC):___Thomas Richmond_____
(title:) Administrator _____
Date: September 13, 2013

Other Persons Contacted:

_____
_Montana Bureau of Mines and Geology, Groundwater Information Center website
_____
(Name and Agency)
_Roosevelt County water wells_____
(subject discussed)
_September 13, 2013_____
(date)

US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Roosevelt County
(subject discussed)

September 13, 2013
(date)

If location was inspected before permit approval:
Inspection date: _____
Inspector: _____
Others present during inspection: _____