

FORM 2A Rev 04/01

State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Table with 4 columns: DE, ET, OE, ES

Document Number: 400134514

Oil and Gas Location Assessment

[X] New Location [] Amend Existing Location Location#: _____

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations.

Location ID: 422460 Expiration Date: 03/30/2014

[X] This location assessment is included as part of a permit application.

1. CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # _____
This location is in a sensitive wildlife habitat area.
This location is in a wildlife restricted surface occupancy area.
This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 53650 Name: MARATHON OIL COMPANY Address: 5555 SAN FELIPE City: HOUSTON State: TX Zip: 77056

3. Contact Information

Name: Anna Walls Phone: (713) 296-3468 Fax: (713) 513-4394 email: avwalls@marathonoil.com

4. Location Identification:

Name: Rawhide Flats 10-68-16 Number: 1B County: LARIMER Quarter: NENE Section: 16 Township: 10N Range: 68W Meridian: 6 Ground Elevation: 5579
Footage at surface: 600 feet FNL, from North or South section line, and 600 feet FEL, from East or West section line.
Latitude: 40.839661 Longitude: -105.002416 PDOP Reading: 1.1 Date of Measurement: 12/15/2010
Instrument Operator's Name: Alec Thomas

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: [] Drilling Pits: [] Wells: [1] Production Pits: [] Dehydrator Units: [1]
Condensate Tanks: [] Water Tanks: [2] Separators: [2] Electric Motors: [2] Multi-Well Pits: []
Gas or Diesel Motors: [1] Cavity Pumps: [2] LACT Unit: [1] Pump Jacks: [1] Pigging Station: []
Electric Generators: [1] Gas Pipeline: [] Oil Pipeline: [] Water Pipeline: [] Flare: [1]
Gas Compressors: [1] VOC Combustor: [1] Oil Tanks: [4] Fuel Tanks: []
Other: 1 - cuttings pit, radio tower

6. Construction:

Date planned to commence construction: 04/15/2011 Size of disturbed area during construction in acres: 3.81
Estimated date that interim reclamation will begin: 12/01/2011 Size of location after interim reclamation in acres: 1.81
Estimated post-construction ground elevation: 5579 Will a closed loop system be used for drilling fluids: Yes
Will salt sections be encountered during drilling: Yes No Is H2S anticipated? Yes No
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No
Mud disposal: Offsite Onsite Method: Land Farming Land Spreading Disposal Facility
Other: evaporate, burial in pit

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 02/14/2011
Surface Owner: Fee State Federal Indian
Mineral Owner: Fee State Federal Indian
The surface owner is: the mineral owner committed to an oil and gas lease
 is the executer of the oil and gas lease the applicant
The right to construct the location is granted by: oil and gas lease Surface Use Agreement Right of Way
 applicant is owner
Surface damage assurance if no agreement is in place: \$2000 \$5000 Blanket Surety ID _____

8. Reclamation Financial Assurance:

Well Surety ID: 19880020 Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
Distance, in feet, to nearest building: 1380, public road: 563, above ground utilit: 2040
, railroad: 7498, property line: 600

10. Current Land Use (Check all that apply):

Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
Non-Crop Land: Rangeland Timber Recreational Other (describe): _____
Subdivided: Industrial Commercial Residential

11. Future Land Use (Check all that apply):

Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
Non-Crop Land: Rangeland Timber Recreational Other (describe): _____
Subdivided: Industrial Commercial Residential

12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 1: Ativan Loam, 0 to 3% Slopes

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes No

Plant species from: NRCS or, field observation Date of observation: 12/15/2010

List individual species: _____

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): _____

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: No Yes Was a Rule 901.e. Sensitive Areas Determination performed: No Yes

Distance (in feet) to nearest surface water: 955, water well: 1313, depth to ground water: 10

Is the location in a riparian area: No Yes Was an Army Corps of Engineers Section 404 permit filed No Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No 0-300 ft. zone 301-500 ft. zone 501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: No Yes

15. Comments:

Distance to nearest water well is 1313'. Receipt #3618717, Permit #274756, NWNW sec. 15, T10N, R68W, Static Water level: 10', Total Depth: 800'.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: _____ Date: 02/24/2011 Email: avwalls@marathonoil.com

Print Name: Anna Walls Title: Regulatory Compliance Rep

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: _____

David S. Nesline

Director of COGCC

Date: 3/31/2011

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

Attachment Check List

Att Doc Num	Name
2613541	CORRESPONDENCE
400134514	FORM 2A SUBMITTED
400136713	PROPOSED BMPs
400136999	NRCS MAP UNIT DESC
400137000	ACCESS ROAD MAP
400137001	HYDROLOGY MAP
400137002	LOCATION DRAWING
400137003	LOCATION PICTURES
400137005	REFERENCE AREA MAP
400137006	CONST. LAYOUT DRAWINGS

Total Attach: 10 Files

General Comments

User Group	Comment	Comment Date
OGLA	Changed interim reclamation date. Ready to Pass 3/28/2011.	3/22/2011 10:31:57 AM
Permit	--Changed nearest building to building located to east.	3/7/2011 7:41:38 PM
Permit	---Per APD comments: Rawhide Flats 10-68-16-1B is one of two horizontal wells (Rawhide Flats 10-68-16-1A) to be permitted in Section 36. However, Marathon intends to drill only one of these horizontal wells in the section.	3/7/2011 7:34:04 PM
Permit	Opr corrected. sf	3/7/2011 3:11:04 PM
Permit	back to draft status attachments are for another well pad. kk	2/25/2011 2:11:31 PM

Total: 5 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)