

Managing Environmental Aspects Associated with Exploration and Production Operations Including Hydraulic Fracturing

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Contents

	Page
1 Scope	1
1.1 General	1
1.2 Conditions of Applicability	1
2 Normative References	2
3 Terms, Definitions, Acronyms, and Abbreviations	2
3.1 Terms and Definitions	2
3.2 Acronyms and Abbreviations	6
4 Planning	7
4.1 Planning and Design Considerations	7
4.2 Project Life-cycle Considerations	7
4.3 General Documentation	8
4.4 Self-assessment and Follow-up	8
5 Site Selection and Considerations	8
5.1 General	8
5.2 Site Plan	9
5.3 Surface Considerations	9
5.4 Consideration of Visual Resources	10
5.5 Noise Considerations	11
5.6 Road Use and Transportation Considerations	12
5.7 Temporary Impacts	12
6 Spill Prevention, Control, and Response	13
6.1 General	13
6.2 Transportation of Materials	13
6.3 Primary and Secondary Containment	13
6.4 Operational Procedures	14
6.5 Contingency Procedures	16
6.6 Training for Well Site Personnel	17
6.7 Stormwater Management and Control	17
7 Logistics	18
8 Baseline Groundwater Sampling	18
8.1 General	18
8.2 Scope of Sampling Program	19
8.3 Parameters	20
8.4 QA/QC Samples	21
8.5 Addition: Sampling and Analyses	21
9 Source Water Management	22
9.1 General	22
9.2 Evaluate Source Water Requirements	22
9.3 Develop Water Sourcing Plan	26
10 Material Selection	29
10.1 General	29

Contents

	Page
10.2 Selection of Hydraulic Fracturing Fluids	29
10.3 Materials used in Hydraulic Fracturing	30
11 Transportation of Materials and Equipment	31
11.1 Transportation Planning	31
11.2 Transportation Execution	32
11.3 Documentation and Data Collection	33
12 Mobilization, Rig-up, Execution, and Demobilization	33
12.1 General	33
12.2 Pre-job Hazard Assessment	33
12.3 Mobilization	34
12.4 Rig-up	35
12.5 Management of Change	36
12.6 Execution	36
12.7 Rig-down and Demobilization	37
12.8 Well Site Restoration	37
13 Storage and Management of Fluids and Materials for Hydraulic Fracturing Treatment	38
13.1 General	38
13.2 Additive Management, Storage, and Use	38
13.3 Produced Water Management and Storage	40
13.4 Training	42
13.5 Documentation	42
14 Management of Solid and Liquid Wastes from Exploration, Development, and Production Operations	43
14.1 Waste Management Planning	43
14.2 Waste Management Hierarchy	44
15 Air Quality	46
15.1 General	46
15.2 General Emission Controls	46
15.3 Data Collection and Documentation	47
15.4 Reduced Emissions technologies	47
15.5 Engines	47
Annex A (informative) Additives	48
Bibliography	51

Managing Environmental Aspects Associated with Exploration and Production Operations Including Hydraulic Fracturing

1 Scope

1.1 General

This document provides recommended practices applicable to the planning and operation of wells, and hydraulically fractured wells. Topics covered include recommendations for managing environmental aspects during planning; site selection; logistics; mobilization, rig-up, and demobilization; and stimulation operations. Also, this document includes guidance for managing environmental aspects during well construction. This document provides recommendations for the following topics:

- a) baseline groundwater sampling;
- b) source water management;
- c) material selection;
- d) transportation of materials and equipment;
- e) storage and management of fluids and chemicals;
- f) management of solid and liquid wastes;
- g) air emissions;
- h) site planning;
- i) training;
- j) noise and visual resources.

This document provides a general discussion of exploration and production operations, which does not supersede the review of applicable local, state, and federal regulatory requirements. Operators should consider available industry standards and guidance that can provide additional information.

In addition to this document, API 100-1 contains recommended practices for well construction and fracture stimulation design and execution as it relates to well integrity, groundwater protection and fracture containment for onshore wells. The recommended practices relate to two areas: well integrity during the design and installation of well equipment, and fracture containment during the design and execution of hydraulic fracturing treatments.

1.2 Conditions of Applicability

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