

SCANNED



01655302

Facility ID 440582

Pit Facility 428147

FORM

28

Rev 6/09

# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

**CENTRALIZED E&P WASTE MANAGEMENT FACILITY PERMIT**

Submit this Form and accompanying documents for each facility per Rule 908. Financial Assurance in the amount of \$50,000 is required to operate each facility.

3,300,000  
Surety ID: 20150062

OGCC Operator Number: 100185  
Name of Operator: Encana Oil & Gas (USA) Inc.  
Address: 370 17th Street Suite 1700  
City: Denver State: CO Zip: 80202  
Contact Name and Telephone:  
Julia Carter  
No: 720.876.5240  
Fax: 720.876.6240

**Complete the Attachment Checklist**

	Oper	OGCC
Site description (topo, geol, hydro)	✓	
Adjacent land use description	✓	
Topographic map	✓	
Site drainage map with structures	✓	
Scaled drawing and survey map	✓	
Facility design & engineering	✓	
Operating plan	✓	
Water analysis report		
Financial assurance		
Closure plan	✓	
Local gov't zoning compliance	✓	
Local gov't permits and notice	✓	

Surface Owner (if different than above):  
Address:  
City: State: Zip: Phone:

Facility Name: N. Parachute WF A15 596 pit  
Address:  
City: State: Zip:  
Phone: Fax:  
Location (Qtr, Sec, Twp, Rng, Mer):  
NENE Sec 15 T5S, R96W  
Latitude: 39.621792  
Longitude: 108.148903

1. Is the site in a sensitive area? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		2. What are the average annual precipitation and evaporation rates for the site? Precipitation: 11.61 inches/year Evaporation: 60 inches/year	
3. Has a description of the site's general topography, geology and hydrology been attached? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
4. Has a description of the adjacent land use been attached? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		5. Has a 1:24,000 topographic map showing the site location been attached? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
6. Has a site plan showing drainage patterns, diversion or containment structures, roads, fencing, tanks, pits, buildings and any other pertinent construction details been attached? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
7. If site is not owned by the operator, is written authorization of the surface owner attached? <input type="checkbox"/> Y <input type="checkbox"/> N		8. Has a scaled drawing and survey showing the entire section(s) containing the proposed facility been attached? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
9. What measures have been implemented to limit access to the facility by wildlife, domestic animals or by members of the public? Briefly explain. <u>Please see section 6 of the supplemental information</u>			
10. Is there a planned firelane of at least 10 feet in width around the active treatment areas and within the perimeter fence? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		11. Is there an additional buffer zone of at least 10 feet within the perimeter firelane? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
12. Have surface water diversion structures been constructed to accommodate a 100-year, 24-hour event? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		13. Has a waste profile been calculated according to Rule 908.b.6? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
14. Has facility design and engineering been provided as required by Rule 908.b.7? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		15. Has an operating plan been completed as required by Rule 908.b.8? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
16. Has ground water monitoring for the site been provided? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N ***Attach Water Analysis Report, Form 25, for each monitoring well installed.***			
17. Has financial assurance been provided as required by Rule 704? <u>Please see Appendix 17</u> <input type="checkbox"/> Y <input type="checkbox"/> N		18. Has a closure plan been provided? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
19. Have local government requirements for zoning and construction been complied with? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		20. Have permits and notifications required by local governments and other agencies been provided? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Print Name: Julia Carter

Signed: Julia M. Carter Title: Regulatory Manager Date: 11/17/2014OGCC Approved: [Signature] Title: Env. Supv. Date: 6/20/16

CONDITIONS OF APPROVAL, IF ANY:

See Attached

Facility Number: 440582

**Document Number: 1655302**

**Form 28 Permit**

**Facility ID: 440582**

**Pit Facility ID: 428147**

**Location ID: 334270**

**EnCana Oil & Gas (USA) Inc., N Parachute WF A15 596 Pit, NENE Section 15, T5S, R96W, 6<sup>th</sup> PM, Garfield County, Colorado, Form 28 Conditions of Approval (COAs)**

**FINANCIAL ASSURANCE COAs:**

- A Financial Assurance of \$300,000 has been provided (Surety ID: 20150062). The COGCC is currently having a third party review the closure of the facility and prepare an independent closure estimate. Should the independent estimate be greater than \$300,000.00, the Operator shall provide the additional financial assurance within 45-days of notification of the short fall.
- Financial assurance, based on re-evaluated cost of reclamation, closure and abandonment estimate, will be reviewed at five (5) year intervals over the life of the Facility; however, the COGCC reserves the right to review the financial assurance for adequacy on a more frequent basis.

**GENERAL SITE COAs:**

- Monitoring wells that are dry shall be abandoned in accordance with the State Engineers Office and documented to the COGCC.
- Provide pipeline testing results as part of the annual report submittal.
- Within 45-days of the Form 28 approval, submit to the COGCC Engineering Integrity Group a GIS map with information, (shape files) in a suitable format showing the location of flowlines, type of pipe used in each segment, monitor points, valve locations, booster pump locations (if any) from EnCana's well sites in the Piceance Basin that will transport fluids to and from the N Parachute WF A15 506 waste management facility. Provide and update as part of the annual report.
- A detail of all stormwater BPM maintenance shall be provided in the annual report.
- Within 30-days of this Form 28 approval, comply with COAs that are outlined in the original Form 15 Pit Permit Facility ID: 428147 and Form 2A Document Number: 400230807. Specifically: *COA 22 - After installation of the uppermost liner and prior to operating the pit, the synthetic liner(s) shall be tested by filling the pit with at least 4 feet of fresh water, measured from the base of the pit (not to exceed the 2-foot freeboard requirement). The operator shall monitor the pit for leaks for a period of 72 hours prior to commencing operations. Operator shall notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) 48 hours prior to start of the hydrotest. Successful hydrotest results must be maintained by the operator for the life of the pit and provided to COGCC prior to using the pit.*
- The Operator submitted a Rule 502.b.(1) variance request to the requirement set forth in Rule 908.b.(5).D. *Centralized facilities shall have a fire lane of at least ten (10) feet in width around the active treatment areas and within the perimeter fence. In addition, a buffer zone of at least ten (10) feet shall be maintained within the perimeter fire lane.* If the variance is not granted, the Facility shall immediately be closed per Rule 908.g.