

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Friday, March 18, 2011 11:22 AM  
**To:** Kubeczko, Dave  
**Subject:** FW: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

**Categories:** Orange Category

Scan No 2033646      CORRESPONDENCE      2A#400124986

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**From:** Croteau, Jevin [mailto:Jevin.Croteau@encana.com]  
**Sent:** Friday, March 18, 2011 10:32 AM  
**To:** Kubeczko, Dave  
**Subject:** Re: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Dave,

Thank you for the info. I am good with all the changes you have made on the COAs for the subject pad..

If you have any other questions, please let me know.

Thanks again,

Jevin  
Sent from my BlackBerry wireless handheld device.

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**From:** Kubeczko, Dave <Dave.Kubeczko@state.co.us>  
**To:** Croteau, Jevin  
**Sent:** Thu Mar 17 17:00:20 2011  
**Subject:** RE: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Jevin,

The water quality testing COA has been in place for southwest Colorado for some time. This COA will also be placed on permits in Weld County for the Niobrara horizontal wells as well in other higher density residential areas in Park County. Since many well pads are not drilled out initially, sampling extending out 6 years should cover any Phased approach at such pads. We have reworded the following COAs to incorporate EnCana's comments:

**COA R6** - Operator will take aggressive action to establish vegetation on cut and fill slopes to prevent stormwater erosion and the generation of fugitive dust. Interim reclamation will commence during the next growing season upon conclusion of completion operations. Prior to construction/placement of production equipment and interim reclamation, the operator, COGCC, and the surface owner will conduct an onsite inspection to discuss landowner concerns for interim reclamation and production equipment placement. Based on the inspection, operator will submit, and obtain approval of, a detailed site-specific plan (via a Form 4 Sundry to the COGCC) describing how visual mitigation of taller (regular height) tanks will be accomplished.

**COA R8** - Air quality and odor controls will be implemented and will include the following : (1) flowback stream to be routed from wellhead to a "four-phase" separator and then to a sealed flowback tank, with non-salable gas sent to a temporary flare or VOC combustor; (2) oil or condensate captured during separation process will be sent to a tank with emissions controls; (3) frac/flowback storage tank hatches shall

operate with hydrocarbon absorbing blankets to control odors; (4) operator will comply with the green completions section under COGCC Rule 805.b.(3); and (5) maintain a portable meteorological weather station during well drilling and completion operations, that includes a data logger to archive wind speed, wind direction, and temperature, with information provided to COGCC and CDPHE.

COGCC appreciates EnCana's co-operation in developing these COAs. If you have any questions please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

**David A. Kubeczko, PG**  
**Oil and Gas Location Assessment Specialist**

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**From:** Croteau, Jevin [mailto:Jevin.Croteau@encana.com]  
**Sent:** Thursday, March 17, 2011 9:30 AM  
**To:** Kubeczko, Dave  
**Subject:** RE: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Dave,

Sorry it has taken me a couple of days to get to you. In regards to COA WQ1 regarding sampling and testing up to six years, can you direct me to where this is required, for what industry and for what purpose, so that I can do a little research because I am not aware of any requirement, in any state similar to this?

Regarding BMP's relating to normal production tanks placed on location besides being painted a flat, non-reflective earth tone color to match one of the standard environmental colors determined by the BLM's five State Rocky Mountain Interagency committee we would like to make it a condition to consult with you or someone at the COGCC and the landowner prior to interim reclamation. We feel landowner concerns need to take priority with visuals and are best addressed after pad construction and hook-ups. We could conduct an on-site for interim reclamation and then generate a site specific visual resource management plan.

We have looked at this location and have some initial plans of placing the tanks in corner five (cut of 18.5') and southeast side of the well heads, place the separators to point six (cut of 14.6') no infrastructure near corner seven because of the limited cut of 3.3' but until the pad is constructed and surface owner consulted we like to remain as flexible as possible.

There was one other clarification we wanted to make on COA R8 if referencing Colorado Air Quality Regulation No. 2 could it be written out specifically addressing this regulation regarding odor monitoring?

Thank you for working with us on these and let me know if you have any additional questions.

Best regards,

Jevin

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]  
**Sent:** Tuesday, March 15, 2011 2:11 PM  
**To:** Croteau, Jevin  
**Subject:** RE: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Jevin,

In regards to COA WQ1, the six year sampling is required in several places and industry as a whole has accepted this. Keep in mind it is only for the wells that are tested initially. As far as water well complaint sampling, the COGCC will conduct initial tests and if contamination is identified then we get the operators involved in the investigation. COGCC would like to see a detailed site-specific plan (or BMP) describing how visual mitigation of taller (regular height) tanks would be accomplished. We appreciate EnCana working with us on these COAs. Our plan is to approve this permit on March 18, 2011. If you have any questions please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

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**From:** Croteau, Jevin [mailto:Jevin.Croteau@encana.com]  
**Sent:** Thursday, March 10, 2011 4:43 PM  
**To:** Kubeczko, Dave  
**Subject:** RE: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Dave,

The revised language looks good. I am waiting to hear from the folks in the field but there was one other concern that came up regarding COA WQ1 regarding sampling out six years which seems like a long time. We also would like to see some sort of parameters regarding the requirements to sample water wells from any and all water well owner complaints, e.g. within a mile or 1/2 mile of operations, etc.

Please let me know if you have any questions.

Best regards,

Jevin

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]  
**Sent:** Thursday, March 10, 2011 2:26 PM  
**To:** Croteau, Jevin

**Subject:** FW: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review; Additional COAs

Jevin,

COGCC appreciates EnCana's review and comments concerning our proposed additional COAs for the Cook Martin 20-1D (PB-20) Pad, **Form 2A** (#400124986). We have incorporated your comments (see below, **yellow highlighted text** for additional language and **black highlighted text** for deletions) into COAs R3, R5, and R7, and parts of R6 (interim reclamation timing) and R8 (removing some procedural details, but keeping the use of hydrocarbon absorbing blankets).

For COA R6, if Encana wishes to use full-height tanks, please provide a detailed site-specific plan (or BMP) describing how visual mitigation of taller tanks would be accomplished.

For COA R8, if EnCana has alternative measures to control hydrocarbon emissions and odors during frac flowback operations, COGCC would appreciate a detailed plan (or BMP), otherwise please review the revised language below.

If you have any questions please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

**David A. Kubeczko, PG**  
**Oil and Gas Location Assessment Specialist**

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**From:** Croteau, Jevin [mailto:Jevin.Croteau@encana.com]  
**Sent:** Wednesday, March 09, 2011 5:14 PM  
**To:** Kubeczko, Dave  
**Subject:** RE: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review

Dave,

I am sorry but we have some concerns related to several of the additional COA's you have listed below and want to place on the subject Form 2A. Please see my comments in **Red**.

If you have any additional questions, please let me know.

Thanks,

Jevin

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**From:** Kubeczko, Dave [mailto:Dave.Kubeczko@state.co.us]

**Sent:** Monday, March 07, 2011 10:14 AM

**To:** Croteau, Jevin

**Subject:** EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review

Jevin,

COGCC would like to attach the following additional conditions of approval (COAs) to the Cook Martin 20-1D (PB-20) Pad **Form 2A** (#400098470) based on the well pad's proximity to residences in the Battlement Mesa area. These COAs incorporate Best Management Practices (BMPs) that have been proposed by several operators in the area as well as from operators in other areas of the state where drilling has occurred near residences, and are directed at issues of concern when operating near communities.

1. **Residential:** The following conditions of approval (COAs) will apply:

**COA R1** - Operator will implement sufficient public notification of proposed oil and gas activities, including: (1) provide 30-day notice and community awareness to neighborhood and meet with the neighborhood residents regarding schedule and activities, include local emergency response agencies (Fire/Police); (2) posting schedule changes at a location convenient to residents, as well as notifying local emergency response agencies (Fire/Police) of schedule changes; and (3) notify all homes within a ¼-mile radius and local emergency responders (Fire/Police) 7 days prior to mobilization in, rig up (MIRU);

**COA R2** - Notify the local emergency responders (Fire/Police), COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email [dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)), and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email [shaun.kellerby@state.co.us](mailto:shaun.kellerby@state.co.us)) 48 hours prior to location construction and 24 hours prior to MIRU.

**COA R3** - Operator will review local governmental requirements for access from public roads. At a minimum the following traffic requirements will apply: (1) a traffic control plan will be in place; (2) additional signage on major and/or local roads will be employed to warn the public of increased truck traffic; (3) all oil and gas related construction, drilling, and operational traffic shall access the location from a single point; (4) designate haul routes to avoid school zones; (5) no oil and gas related traffic shall be permitted on neighborhood roads; (6) schedule work to avoid peak traffic flow; (6) schedule heavy equipment movement to avoid school bus operation hours; and (7) provide and require safe driving training for employees and contractors. ; and (8) truck route entry points to avoid Battlement Mesa "front door". **We plan to access this location over state, county and private roads as outlined in the access road map (Topo Map A & B) which was attached to the Form 2A.**

**COA R4** - Operator will prepare a job specific Emergency Management/Response Plan that has been reviewed with the local emergency responders (Fire/Police). Operator will provide temporary engineering controls to prevent uncontrolled public

access during drilling and completion activities. Site security shall include, but not be limited to, appointing a Health and Safety Officer that will insure the Emergency Management/Response Plan is adhered to and who is authorized to shut down operations at any time when health and safety risk is present.

**COA R5** - Operator will utilize existing material from the construction of the pad **(if adequate cut material is available)**, (if adequate cut material is available) This COA needs to be site specific. to construct elevated earthen berms along the north**eastwest** edge of the pad curving around approximately 1/3 along the northeast and southwest edges to provide noise, light, and odor relief to nearby residents. Operator shall conduct noise monitoring as described in 802.c. at a minimum once during each phase of activity (pad construction, drilling, completion and production), and submit the results to the Director. The COGCC may direct the operator to change the level and type of mitigation if the noise/light/odor abatement measures are observed to be insufficient.

**COA R6** - Operator will take aggressive action to establish vegetation on cut and fill slopes to prevent storm water erosion and the generation of fugitive dust. Operator shall install and maintain permanent vegetative visual buffering on the west and east sides in conjunction with interim reclamation. Visual mitigation shall also include the use of low profile tanks. We prefer to use larger tanks that we may be able to screen with land forming or vegetation during interim reclamation. We have worked with the BLM regarding this issue because smaller low profile tanks require increased truck traffic during the life of the well. Interim reclamation will commence **during the next growing season** upon conclusion of completion operations. (and/or as soon as soil moisture controls allow). You need to allow for seasonal constraints, heavy snow, frost, drought, etc. The reclamation window is typically from May 1 through September 30th.

**COA R7** - Lighting abatement measures beyond the requirements of Rule 803. shall be implemented, including the following **(except where adequate lighting is needed for safety reasons and/or where it may be required to meet OSHA standards)**: (1) rig oriented to direct light away from nearby residents; (2) install lighting shield devices on all of the more conspicuous lights; (3) low density sodium lighting; and (4) rig shrouded on the west and **east north** sides. Except where adequate lighting is needed for safety reasons and/or where it may be required to meet OSHA standards.

**COA R8** - Air quality and odor controls will be implemented and will include the following : (1) flowback stream to be routed from wellhead to a “four-phase” separator and then to a sealed flowback tank, with non-salable gas sent to a temporary flare or VOC combustor; (2) oil or condensate captured during separation process will be sent to a tank with emissions controls (see COA R10); (3) **frac/flowback storage tank hatches shall operate with hydrocarbon absorbing blankets to control odors; We comply with the green completions section under COGCC Rule 805.b.(3) and although we are close, we do not have a 100% fully contained system.** (4) daily odor monitoring should be conducted during well completions using a Nasal Ranger to monitor compliance with detectable odor limits in Colorado Regulation 2, documentation of such monitoring shall be submitted to COGCC; and (5) maintain a portable meteorological weather station during well drilling and completion operations, that includes a data logger to archive wind speed/direction, temperature, and humidity with information provided to COGCC and CDPHE.

**COA R9** - Flares (such as TCI’s portable flare with high combustion rate, low noise, and low visibility flare) will be utilized and will have appropriate emissions controls to prevent VOCs from impacting nearby residents in harmful concentrations.

**COA R10** - Emissions from condensate, crude oil, and produced water tanks and from glycol dehydrators shall be controlled as described in Rule 805.b.(2), not-

withstanding the exceptions for production facilities emitting less than five tons per year (TPY) of volatile organic compounds (VOC).

**COA R11** - Access roads to well sites, completion staging sites and production facilities shall be constructed to meet the requirements of emergency responders, including all weather surface.

**COA R12** - Land-farming of E&P waste is prohibited on the location. This shall not preclude onsite disposal of E&P waste in accordance with COGCC Rules and permit conditions.

2. **Water Resources:** The following condition of approval (COA) will also apply:

**COA WQ1** - Water Testing: Prior to drilling operator shall sample the two (2) closest domestic water wells, springs, or surface water features within a one (1) mile radius of the proposed oil and gas location. Testing preference shall be given to domestic water wells and springs over surface water. Testing of surface water features shall only be conducted if two (2) water wells or springs do not exist within a one (1) mile radius of the selected oil and gas location. If possible, the water wells or springs selected should be on opposite sides of the oil and gas location not exceeding a one (1) mile radius. If water wells or springs on opposite sides of the oil and gas location cannot be identified, then the two (2) closest wells or springs within a one (1) mile radius of the oil and gas location shall be sampled. The sample location shall be surveyed in accordance with Rule 215.

Initial baseline testing shall include laboratory analysis of all major cations and anions, total dissolved solids, iron and manganese, nutrients (nitrates, nitrites, selenium), dissolved methane, pH, specific conductance, and benzene, toluene, ethylbenzene, and xylenes ("BTEX"). Sampling shall be performed by qualified individuals using methods consistent with commonly accepted environmental sampling procedures. Field observations such as pH, temperature, specific conductance, odor, water color, sediment, bubbles, and effervescence shall also be included.

After 90 days, but less than 180 days of completion of the first proposed well a "post-completion" test shall be performed for the same analytical parameters listed above and repeated one (1), three (3) and six (6) years thereafter. If no significant changes from the baseline have been identified after the third test (i.e. the six-year test), no further testing shall be required. Additional "post-completion" test(s) may be required if changes in water quality are identified during follow-up testing. The Director may require further water well sampling at any time in response to complaints from water well owners.

If free gas or a methane concentration level greater than 1 mg/l is detected in a water quality testing well, gas compositional analysis, and stable isotopes of both the carbon and hydrogen isotopes of methane shall be performed to determine gas type (thermogenic, biogenic or a mixture).

Copies of all test results described above shall be provided to the Director and the landowner where the water quality testing well is located within three (3) months of collecting the samples used for the test. The analytical data and surveyed well locations shall also be submitted to the Director in an electronic data deliverable format.

Please review and get back to me by Wednesday as COGCC would like to approve this permit as soon as possible. If you have any questions, or would like to address these COAs with detailed site-specific Best Management Practices (BMPs) that will be attached to this permit, please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

**David A. Kubeczko, PG**  
**Oil and Gas Location Assessment Specialist**

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**From:** Croteau, Jevin [mailto:Jevin.Croteau@encana.com]  
**Sent:** Friday, January 21, 2011 4:10 PM  
**To:** Kubeczko, Dave  
**Subject:** Re: EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review

Dave, The COAs listed are okay for the subject location. Please let me know if you have any questions. Jevin  
Sent from my BlackBerry wireless handheld device.

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**From:** Kubeczko, Dave <Dave.Kubeczko@state.co.us>  
**To:** Croteau, Jevin  
**Sent:** Fri Jan 21 15:31:07 2011  
**Subject:** EnCana Oil & Gas (USA), Cook Martin 20-1D (PB-20) Pad, NWNE Sec 20 T7S R95W, Garfield County, Form 2A (#400124986) Review

Jevin,

I have been reviewing the Cook Martin 20-1D (PB-20) Pad **Form 2A** (#400124986). COGCC would like to attach the following conditions of approval (COAs) based on the information and the data EnCana has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review.

3. **Water Resources (Section 14):** Form 2A indicates the distance to the nearest surface water is 405 feet. COGCC guidelines require designating all locations within close proximity to surface water a **sensitive area** (which operator has already been indicated on the Form 2A). The following conditions of approval (COAs) will apply:  
**COA 4** - Location is in a sensitive area because of its proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including,



but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

**COA 5** - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.

4. **General:** The following conditions of approval (COAs) will also apply:

**COA 91** - Notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email [dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email [shaun.kellerby@state.co.us](mailto:shaun.kellerby@state.co.us)) 48 hours prior to start of construction.

**COA 6** - Reserve pit (if constructed) must be lined or a closed loop system (which operator has already been indicated on the Form 2A) must be implemented during drilling.

**COA 25** - Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material (per Rule 604.a.(4)). In addition, operator must implement odor controls during fracing operations.

**COA 26** - Notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email [dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email [shaun.kellerby@state.co.us](mailto:shaun.kellerby@state.co.us)) 48 hours prior to start of fracing operations.

**COA 38** - The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

**COA 44** - The access road will be constructed to prevent sediment migration from the access road to nearby surface water or any drainages leading to other nearby surface waters. Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.

**COA 46** - The surface soils and materials are fine-grained and highly unconsolidated; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after well pad construction completion, as well as during all drilling and well completion operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.

**COA 58** - Berms or other containment devices shall be constructed in compliance with Rule 604.a.(4) around crude oil, condensate, and produced water storage tanks.

5. **Residential:** Due to the proximity of this location to the Battlement Mesa PUD, the following conditions of approval (COAs) will also apply:

**COA R1** - Provide temporary engineering controls to prevent uncontrolled public access during drilling and completion activities. Site security shall include, but not be limited to, appointing a Health and Safety Officer that will be authorized to shut down operations at any time when health and safety risk is present.

**COA R2** - Provide temporary engineering controls to mitigate visual impacts and nuisance noise to nearby residences.

**COA R3** - Visual mitigation shall be used on production equipment and may consist of: low profile tanks, appropriate tank and production equipment color palette, vegetative visual buffer, and/or other visual buffering.

COGCC would appreciate your concurrence with attaching these COAs (items 1, 2, and 3) to the Form 2A permit prior to passing the OGLA review. If you have any questions, please do not hesitate to call me at (970) 309-2514 (cell), or email. Thanks.

Dave

**David A. Kubeczko, PG**  
**Oil and Gas Location Assessment Specialist**

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