

## Dave Kubeczko - DNR

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**From:** Dave Kubeczko - DNR  
**Sent:** Friday, August 09, 2013 9:58 AM  
**To:** dave.kubeczko@state.co.us  
**Subject:** FW: SWEPI LP, Morapos Creek 1-10 Pad, SENW Sec 10 T3N R91W, Moffat County, Form 2A#400431069 Review

**Categories:** Operator Correspondence

**Scan No 2106709      CORRESPONDENCE      2A#400431069**

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**From:** [C-Steven.Compton@shell.com](mailto:C-Steven.Compton@shell.com) [mailto:[C-Steven.Compton@shell.com](mailto:C-Steven.Compton@shell.com)]  
**Sent:** Wednesday, July 31, 2013 4:51 PM  
**To:** [dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)  
**Subject:** RE: SWEPI LP, Morapos Creek 1-10 Pad, SENW Sec 10 T3N R91W, Moffat County, Form 2A#400431069 Review

Dave,

We have reviewed the COA's you recommended for the Morapos Creek 1-10 and concur with them. I think you may have one slight typo in COA 49. This COA is discussing temporary surface pipelines but the last word in the sentence refers to pits. Should this be pipe?

Thank you for the courtesy of letting us review them. If you need any additional information, please do not hesitate to contact me.

**Steve Compton, P.G.**

Environmental Engineer - US Onshore Exploration

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**From:** Dave Kubeczko - DNR [mailto:[dave.kubeczko@state.co.us](mailto:dave.kubeczko@state.co.us)]  
**Sent:** Wednesday, July 31, 2013 12:11 PM  
**To:** Compton, Steven SEPCO-UAS/E/USON  
**Subject:** SWEPI LP, Morapos Creek 1-10 Pad, SENW Sec 10 T3N R91W, Moffat County, Form 2A#400431069 Review

Steve,

I have been reviewing the Morapos Creek 1-10 Pad **Form 2A** (#400431069). COGCC would like to attach the following conditions of approval (COAs) to the Form 2A based on the data SWEPI has submitted on or attached to the Form 2A prior to passing the Oil and Gas Location Assessment (OGLA) review.

**Construction (Section 6):** The box answering the question will salt (>15,000 ppm TDS Cl) or oil based muds (OBM) be used? has been marked **Yes**; therefore the following conditions of approval (COA) will apply:

**COA 11** - A closed loop system must be implemented during drilling (which operator has indicated on the Form 2A); or, if a closed loop system drilling rig is not used/available, then an amended Form 2A will need to be submitted/approved to include a drilling pit, and a Form 15 Earthen Pit Permit will also need to be submitted/approved prior to construction of the pit (the drilling pit will be required to be lined, fenced, and netted).

**COA 39** - All cuttings generated during drilling with oil based muds or high chloride/TDS mud must be kept in containers, a lined/bermed portion of the well pad, or the lined drilling (if permitted and constructed) prior to offsite disposal. 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.

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

**COA 91** - Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).

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

**COA 23** - Operator must ensure secondary containment for any volume of fluids contained at well site during drilling and completion operations (as described on the BMPs tab and shown on the Construction Layout Drawings and Location Drawing attachments); 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., best management practices (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 44** - The access road and well pad will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

**COA 46** - The location is in an area of moderate to high run-on/run-off potential (cut and fills of 27' and 22' respectively); and the surface soils and materials are highly unconsolidated and fine-grained clays; therefore appropriate BMPs need to be in place during all construction, 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 38** - The moisture content of any freshwater generated 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, if the drill cuttings are to be left onsite, they must also meet the applicable standards of table 910-1.

**COA 76** - 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 25** - Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment 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.

**COA 58** - Berms or other containment devices shall be constructed to be sufficiently impervious (preferably corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

**Groundwater Baseline Sampling:** The following COA will also apply:

**COA 9** - Operator shall comply with Rule 609. STATEWIDE GROUNDWATER BASELINE SAMPLING AND MONITORING.

**Temporary Surface Pipelines:** The following conditions of approval (COAs) will apply to the Form 2A Permit if any temporary surface pipelines (poly or steel) are used during operations at the well pad location:

**COA 11** - Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration of the pipeline network. Operator shall 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 testing surface poly or buried steel pipelines.

**COA 48** - Operator must implement best management practices to contain any unintentional release of fluids along all portions of the surface pipeline route where temporary pumps and other necessary equipment are located.

**COA 49** - Operator must routinely inspect the entire length of the surface pipeline to ensure integrity. Operator shall conduct daily inspections of surface poly pipeline routes for leaks during active transfer of fluids. Inspections shall be conducted by viewing the length of the pipeline; operator will endeavor to minimize surface disturbance during pipeline monitoring. The operator shall maintain records of inspections, findings and repairs, if necessary, for the life of the pits.

**COA 54** - Operator must ensure 110 percent secondary containment for any potential volume of fluids that may be released from the surface pipeline at all sensitive area crossings, including, but not limited to stream, intermittent stream, ditch, and drainage crossings.

**COA 55** - Operator will utilize, to the extent practical, all existing access and other public roads, and/or existing pipeline right-of-ways, when placing/routing the surface pipelines. This will reduce surface disturbance and fragmentation of wildlife habitat in the area.

COGCC would appreciate your concurrence with attaching the COGCC 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](tel:9703092514) (cell), or email. Thanks.

Dave

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

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