

Mesa Energy Partners, LLC
CBU 29-12-397
2,617' FSL 849' FWL (NW/4 SW/4)
Sec. 29 T3N R97W
Rio Blanco County, Colorado
Surface: Federal
Federal Mineral Lease: COC65818

SURFACE USE PLAN OF OPERATIONS

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. This NOS process included an onsite meeting held on September 7, 2011, prior to the submittal of the application, at which time the specific concerns of Mesa Energy Partners, LLC (MEP) and the BLM were discussed. All specific concerns of the BLM representatives are addressed herein, as are specific stipulations from the BLM.

WELL LOCATION AND INTRODUCTION:

The wellsite was staked at 2,617' FSL 849' FWL (NW/4 SW/4) of Sec. 29 T3N R97W on September 7, 2011, by GeoSurv Land Surveying and Mapping (GeoSurv), surveyor, on behalf of MEP, on a site that is geologically and topographically acceptable. The wellsite lies within the pending federal Coyote Basin Unit boundary.

A NOS was submitted to BLM in Meeker on September 12, 2011, for this location. An onsite meeting was held on September 7, 2011. Attending were: Christi Barlow, Bob Lang, and Tyrell Turner - BLM; Michael Warren - Colorado Division of Wildlife (CDOW); Amie Wilsey and Mike Grode - WestWater Engineering (WWE); Jim Grabowski - GeoSurv; and Dave Cesark and Dan Gibson - MEP.

During the onsite, the originally-staked drillsite location was moved approximately 600' southwest at the request of the BLM to avoid potential issues associated with three intermittent drainages.

DIRECTIONS TO LOCATION:

MP 0.0 - Intersection of Highway 64 & Highway 139; East on Highway 64
MP 27.4 - Left on CR 77 at Mile Post 47.3 on Hwy 64
MP 30.6 - Left on BLM RD 1509
MP 30.4 - Left on BLM RD 1509 at Intersection of BLM RD 1509 & 1511
MP 31.8 - Bear right on BLM RD 1509 at Intersection of BLM RD 1509 & 1728
MP 32.5 - Right on access to Coyote Basin 29-12-397 Pad
MP 32.6 - Coyote Basin 29-12-397 Pad

- 1) EXISTING ROADS (See Access Road, Vicinity maps, and BLM RD 1509 ACCESS survey plats)
 - A) The well is an exploratory well.
 - B) Existing roads within 1.00 mile consist of BLM Road 1509, to within 0.1 miles, which will provide access to the proposed location.
 - C) MEP will upgrade three existing stretches of BLM Road 1509 totaling approximately 3,000', most of which is off-lease. Travel surface width to be approximately 16', total disturbed width to be no more than 50. One 18" culvert will be installed on the southern portion of the existing BLM Road 1509 to be upgraded (please refer to BLM RD 1509 ACCESS survey plats for more detail).
 - D) Plans for improvement and/or maintenance of existing roads are to maintain in as good or better condition than at present.
 - E) Maximum grade – the average grade will be 10% or less, wherever possible. The 10% grade will only be exceeded in areas where physical terrain or unusual circumstances require it (please refer to BLM RD 1509 ACCESS survey plats for more detail).

- 2) PLANNED ACCESS ROADS (See Access Road map)

±620'(0.1 miles) – New road construction – Sec. 29 T3N R97W – BLM on lease. The access road will be maintained so as to meet BLM Manual Section 9113 standards for road shape and drainage features at all times during construction, drilling and production.

 - A) Travel surface width to be approximately 16', total construction width to be no more than 50'. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.
 - B) Borrow ditches to be backsloped 3:1 or shallower. Weather permitting, the access road will be mowed and the borrow ditch material will be pulled over the top of the mowed area.
 - C) Maximum grade – the average grade will be 10% or less.
 - D) One 18" and one 24" culvert will be installed prior to commencement of drilling operations in the new proposed access road. Drainage to consist of wing ditches between the access road and the wellsite and will be installed prior to commencing drilling operations. The borrow ditches along the proposed access road will be re-seeded. The reseeded of the borrow ditches will reduce the area utilized by this location.
 - E) Surfacing material, if necessary, to consist of native material from borrow ditches. Top soil will be saved on the backslope of the borrow ditches, separate from other native material. Crown will be constructed from excess native materials pulled from borrow ditches and initial road grading, and will be of sufficient grade as described above.
 - F) No major road cuts are necessary.
 - G) No turnouts are required.
 - H) A fence cut and cattleguard will be required in order to construct the access road. Existing cattleguards will be repaired/replaced as necessary as a result of damage resulting from rig moves.
 - I) Road construction on public lands shall meet the minimum standards listed in BLM Manual Section 9113 and shall be constructed under the direction of a qualified construction supervisor(s). The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the

operator. The dirt contractor, or drilling/completion foreman whose primary expertise is not in construction, do not qualify as construction supervisors.

- J) For more information how planned access roads are handled in the Preconstruction/Construction/Interim/Final Reclamation stages please refer to Coyote Basin Master Stormwater Management Plan (SWMP). This plan will be on file when complete at the operator's field office and available for review and inspection upon request.

3) LOCATION OF EXISTING WELLS

Within a 1-mile radius (*see attached Well Vicinity Map for exact location):

Proposed NONE

Drilling NONE

*Abandoned Mobil Oil Colorow-Gulch Federal #15-29, Trident Coyote Basin Unit #2

Disposal/injection NONE

*Shut-In Sonterra Energy Rio Blanco Fed #1-30

Producing NONE

LOCATION OF EXISTING PRODUCING FACILITIES OPERATED BY MESA ENERGY PARTNERS, LLC

Within one (1) mile: NONE

The nearby well data has been taken from the COGCC website on October 7, 2011.

4) NEW PRODUCTION FACILITIES PROPOSED

- A) The production facilities shall initially consist of a pump jack, separator, two 400 barrel capacity stock tanks, and a meter house. BLM will be contacted via Sundry Notice (SN) if the production facilities change.
- B) Dimension of the proposed pad is 300' x 430' = 129,000 ft² or 2.96 acres for drilling operations. Approximate total disturbed area (including stormwater BMPs) is ±5.2 acres.
- C) Traveled portion of the production site will be gravel surfaced if necessary upon completion of production facility installation and prior to production. Site preparation for production will be done with standard excavation equipment using native materials whenever possible. Additional surface material (if required) will be obtained from commercial sources or another approved borrow area. MEP will notify the BLM via SN when an exact source has been determined. Construction and maintenance will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment.
- D) All above ground permanent structures will be painted to blend with the surrounding landscape and per BLM recommendations. The typical paint color for this area is "Juniper Green" (no Munsell color). All production facilities will be painted within six months of installation. Facilities that are required to comply with Occupation Safety and Health Administration (OSHA) Rules and Regulations will be excluded from this painting requirement. The tallest structure will be no greater than 20' in height.
- E) A lined secondary containment ring will be constructed around any production tanks. This ring will be, hold 110% of the capacity of the largest tank, and be independent of the back cut.
- F) Produced water will be trucked to either the Pinyon Ridge Fed C1W disposal well located in the NE/SE of Sec. 21 T3N/R97W or to various locations (to be specified

later) in Williams' Ryan Gulch Unit for possible re-use (see Ancillary Facility Map).

- G) Run off and sediment control Best Management Practices (BMPs) will be implemented and maintained according to the Coyote Basin Unit Storm Water Management Plan (pending).
- H) MEP shall protect all survey monuments, witness corners, reference monuments and bearing trees in the affected areas against disturbance during construction, operation, maintenance and termination of the facilities authorized herein.
- I) MEP shall immediately notify the Authorized Officer (AO) in the event that any corners, monuments or markers are disturbed or are anticipated to be disturbed. If any monuments, corner or accessories are destroyed, obliterated or damaged during construction, operation or maintenance, MEP shall secure the services of a Registered Land Surveyor to restore the disturbed monuments, corner or accessories, at the same location, using surveying procedures found in the Manual of Surveying Instructions for the Survey of the public Lands of the United States, latest edition. MEP shall ensure that the Registered Land Surveyor properly records the survey in compliance with the Colorado Revised Statutes 38-53-101 through 38-53-112 (1973) and shall send a copy to the AO.

5) LOCATION OF WATER SUPPLY

- A) Water to be used for the drilling and completion of this well may be delivered to the location via truck hauling over the roads: CO 64, CR 77, BLM 1509. The water source may be from (1) recycled flow back water (frac water from completions), production water gathered from producing wells, or some combination thereof resulting from ongoing operations in the Piceance Basin that may be treated for reuse, or (2) fresh water from available water rights in the Piceance Basin (see Ancillary Facility Map).
- B) The fresh water providers are Williams and/or EnCana. Due to possible water restrictions it is imperative that multiple sources be available for use. Williams' fresh water will come from their nearby *Ryan Gulch Ranch* fresh water loadout located at 39.864375 latitude and 108.430068 longitude, NAD83, and will utilize CR 86, CR 24, CR 5, CO 64, CR 77, BLM 1509. EnCana's fresh water source will come from the *Foote Ranch* loading facility located at -40.008838 latitude and 108.24631 longitude, NAD83, and will utilize CR 24, CR 5, CO 64, CR 77, BLM 1509 (see Ancillary Facility Map).
- C) MEP estimates that we will use ~5,000 bbls of fresh water for drilling, and up to 75,000 bbls of either fresh or recycled water for completions. The amount of water used for dust abatement is estimated to be ~ 1,000 bbls/year. The above roads will be utilized to transport the water required for operations.

6) SOURCE OF CONSTRUCTION MATERIALS

- A) Construction materials will consist of native materials from borrow ditches and location areas.
- B) Surfacing materials will be obtained from available permitted sources, if needed, and consist of pit gravel.
- C) All access roads crossing Federal land are described under Item #2, and shown on Access Road and Vicinity Maps.
- A) No additional construction material from other sources is anticipated at this time. If, in the future it is required, the appropriate actions will be taken to acquire it from private sources. A sundry notice will be submitted stating the intended source of the materials

- B) All trees on the locations, access road, and proposed pipeline routes shall be purchased prior to construction from the Bureau of Land Management, White River Resource Area, and disposed of by one of the following methods:
- F) Trees shall be cut with a maximum stump height of six inches (6") and cut to 4-foot lengths and stacked off location. Trees will not be dozed off the location or access road, except on private surface where trees may be dozed. Trees may also be dozed on pipeline routes and then pulled back onto right-of-way as part of final reclamation.
- G) Limbs may be scattered off location, access road or along the pipeline, but not dozed off.
- H) Request to allow for use of site slash (site vegetation trees, shrubs, forbs & grasses) in preconstruction BMP's and permanent stormwater BMP's as sediment control within our limits of disturbance on access roads, pipelines and facility construction.

7) WASTE DISPOSAL

A closed-loop mud system will be utilized for drilling mud provided it can be operated in a safe, efficient manner in a potentially high-pressure drilling environment and winter weather conditions, if applicable. A cuttings pit (50' x 10' x 10') will be required for use with a closed-loop system. Cuttings will be treated and buried onsite to as per COGCC guidelines.

- A) Flare pit for air drilling will (if used) be located minimum 100' from well bore.
- B) Produced water will be trucked to either the Pinyon Ridge Fed C1W disposal well located in the NE/SE of Sec. 21 T3N/R97W or to Williams' Ryan Gulch Unit for re-use during completion and testing (site varies, see Ancillary Facility map).
- C) Drilling fluids including salts and chemicals will be contained within the closed loop drilling system. Within six months upon termination of drilling and completion operations, the mud will be transferred to another drilling location for recycling/reuse as per COGCC Rule 903. If the mud is not needed elsewhere, all drilling fluids may be treated or disposed of through injection into a permitted Class II well (COGCC Rule 325, Pinyon Ridge Fed C1W).
- D) In the event that adverse weather conditions prevent removal of the fluids from the mud system within this time period, an extension may be granted by the AO upon receipt of a written request from MEP.
- E) Produced fluids – liquid hydrocarbons produced during completion operations will be trucked to an undetermined ancillary facility for sale. Produced waste water will be trucked to the Pinyon Ridge Fed C1W disposal well located NESE of Sec. 21 T3N R97W for disposal. It may also be reused for completion at another MEP well or transported to Williams' Ryan Gulch Unit for reuse (location varies, see Ancillary Facility Map).
- G) Sewage disposal facilities will be in accordance with State and Local Regulations. Sewage may not be buried on location or put in a borehole. Colorado Department of Public Health and Environmental (CDPHE) Regulations prevent this unless a CDPHE Permit is obtained.
- H) Refuse and other waste - burnable waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a CDPHE-approved Sanitary Landfill upon completion of operations.
- I) Trash will be picked up, if scattered, and contained in trash cage as soon as practical after rig is moved off.
- J) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.

- K) Any reportable spills of oil, gas, salt water or other potentially hazardous substances will be reported immediately to the BLM, and other responsible parties, and will be mitigated immediately, as appropriate, through clean up or removal to an approved disposal site.

8) ANCILLARY FACILITIES

- A) Self-contained travel-type trailers may be used on site during drilling operations.
- B) Certified Colorado Division of Housing units will be provided for use by Essential Personnel and will abide by Federal, State, and local regulations which directly pertain to Temporary Living Quarters (TLQ).
- C) Construction Methods- Well Pads (Preconstruction/Construction/Interim/Final reclamation): refer to Coyote Basin Master Stormwater Management Plan, this plan is on file at the operator's field office and is available for review and inspection upon request.
- D) Potable water will be provided by water haulers certified by the Colorado Department of Public Health & Environment.
- E) Septic will be held in County-approved engineered Individual Sewage Disposal System Vault and Haul systems.
- F) Waste materials generated by and from these units will be contained in wildlife proof containers and will be hauled weekly, or as necessary.

9) WELLSITE LAYOUT (Pad Layout, Production Schematic, Typical Rig Layout and Existing Contours.)

- A) See attached drillsite plat and cut/fill diagram.
- B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper re-contouring and revegetation can occur.
- C) Up to 6" of topsoil will be removed prior to location construction from the reserve pit area and/or any other disturbed areas. Topsoil will be stockpiled adjacent to the wellsite within the maximum disturbed area shown on the wellsite plat.
- D) Topsoil and spoils pile will be clearly separated as shown on Pad Layout.
- E) Erosion control measures will be applied pursuant to MEP's General Permit to Discharge Stormwater under the Colorado Pollutant Discharge Elimination System and accompanying SWMP (both are required before construction and are currently pending).
- F) To control drainage, the Best Management Practices for this location are perimeter ditch/berm, cut slope diversion, etc. (refer to Pad Layout diagram for details).

10) PIPELINES AND FLOWLINES

All new flowlines and pipelines will remain within the proposed/pending federal Coyote Basin Unit boundary. No separate Right-of-Way applications should be necessary for pipelines.

Should drilling result in established commercial production the following will be occur:

- A) All buried pipelines will be buried to a depth of 3 - 4 feet, except at road crossings where they will be buried to a depth of 4 feet.
- B) Construction width of the right-of-way/pipeline route shall be restricted to 50 feet of disturbance.
- C) Reclamation width of the right-of-way/pipeline route shall be approximately 50 feet, minus a 14' – 16' running surface.
- D) Length of proposed pipeline to tie-in of existing gas pipeline is approximately 760 feet.
- E) The proposed natural gas flow line and produced water line will both follow in the same trench as shown on the Proposed Pipeline Map. The lines will tie into established lines.

11) SURFACE RESTORATION (Applicable to all areas of disturbance including the access road, pipeline corridor, and well pad)

- A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment.
- B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).
- C) In areas that will not be drill-seeded, the seed mix will be broadcast-seeded at twice the application rate prescribed.
- D) Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding would be conducted after the frost leaves the ground. Topsoil will be seeded on a temporary basis to preserve the integrity if interim reclamation is delayed to the next growing season.
- E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) is pending for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed control measures with BLM, state, and/or local management agencies.
- F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.
- G) Reclamation monitoring will be documented in a reclamation report and submitted to the WRFO.
- H) The WRFO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

INTERIM RESTORATION (Production: Applicable to all areas of disturbance on the pad and access road not needed for production or access)

- A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring, back sloping and contouring all cut & fill slopes. These areas will be re-seeded.
- B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cuts and fills will be reduced to 3:1 or less slope, whenever practicable.
- C) Immediately upon well completion, any hydrocarbons or trash in the flare and cuttings pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.

- D) Following completion activities, when dry, the pits will be backfilled with a minimum of five (5) feet of soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.
- E) The portions of the cleared well site not needed for operational and safety purposes will be re-contoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after re-contouring to allow for maximum interim reclamation.
- F) Topsoil will be evenly re-spread and aggressively re-vegetated over the entire disturbed area not needed for all-weather operations including road cuts & fills and to within a few feet of the production facilities.
- G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4" - 6" inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut & fill slopes.
- H) To help mitigate the contrast of re-contoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over re-contoured cut & fill slopes.
- I) A possible seed mixture for this location is:
BLM Native Seed Mix #3
- J) Reclamation growth will be considered successful if the following criteria are met:
- 70% of pre-disturbance cover
 - 90% dominate species*
 - Erosion features equal to or less than surrounding area
- *The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.*
- K) To control drainage during interim reclamation some of the BMP's for this pad include maintaining a bar ditch around the perimeter of the reclaimed pad with check dams.

FINAL RESTORATION (P & A – Removal of equipment)

- A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.
- B) If necessary to ensure timely revegetation, the pad will be fenced to BLM standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the Gold Book, 4th Edition.
- C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.
- D) A proposed seed mixture for this location is:
- BLM Native Seed Mix #3

- E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4" to 6" within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown above) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut & fill slopes.
- F) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be re-contoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Re-salvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of re-contoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over re-contoured cut & fill slopes.
- G) At final reclamation all storm water management BMP's for drainage, sediment, and erosion will be removed in order to return the site to its natural state. All sediment will be managed through revegetation practices (seeding on contour, crimping straw on contour and/or erosion control hydro-mulch, pocking and topsoil distribution. Downgradient wattles will remain until vegetation establishment meets minimum requirements. Any stormwater management features utilized for final reclamation will be removed prior to FAN approval.

12) GENERAL INFORMATION

- A) Project area is situated in the undulating uplands north of the White River.
- B) Topographic and geologic features – high-relief area, well drained, sand and silt deposition, flat to rolling.
- C) Soil characteristics – loam.
- D) Flora consists of: Big Sagebrush, PJ, Broomweed, Rabbitbrush, Slender Wheatgrass, Crested Wheatgrass, Indian Ricegrass, Bluebunch Wheatgrass, June grass, Western Wheatgrass, and Phlox.
- E) Fauna observed: none; assume: mule deer, elk, coyotes, rabbits, raptors, prairie dogs, and rodents.
- F) Concurrent surface use - grazing and hunting.
- G) Mineral Lessor - Bureau of Land Management
White River Field Office
220 E. Market Street
Meeker, CO 81641 Phone: 970-878-3800
- H) Surface Owner
Drillsite/Access- Bureau of Land Management
White River Field Office
220 E. Market Street
Meeker, CO 81641 Phone: 970-878-3800
- I) Proximity of water, occupied dwellings or other features: four unnamed intermittent drainages were identified ranging from ±90 feet to the south to ±600 feet to the north (see Hydrology Map).
- J) Archaeological, cultural and historical information for the new construction on federal lands have been contained in a report and were submitted separately by Grand River Institute.

- K) If any fossils are discovered during construction, the operator shall cease construction immediately and notify the AO so as to determine the significance of the discovery.
- L) The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the AO. The AO will inform the operator as to the work needed to determine the following:
- Whether the materials appear eligible for the National Register of Historic Places;
 - The mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
 - A timeframe for the AO to complete an expedited review to acquire the State Historic Preservation Officer's concurrence that the findings of the AO are correct and that mitigation is appropriate.
- N) MEP maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

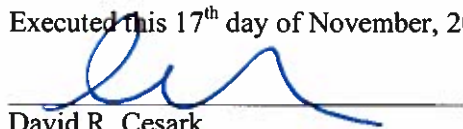
13)

REPRESENTATIVES AND CERTIFICATION

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved Application for Permit to Drill will be furnished to the field representatives to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal Laws applicable to this operation; that the statements made in this APD Package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD Package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for filing false statements.

Executed this 17th day of November, 2011.



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