



## **LETTER OF INTRODUCTION**

### **EASTERN HILLS NORTH 4-65 20-19 1AH-1DH, 2AH-2CH**

City File No. DA-2023-03

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## **Eastern Hills North 4-65 20-19**

**1AH, 1BH, 1CH, 1DH, 2AH, 2BH, 2CH**

**OIL & GAS PERMIT**

**SENE SECTION 17, TOWNSHIP 4 SOUTH, RANGE 65 WEST, 6<sup>TH</sup> P.M.**

**ARAPAHOE COUNTY, COLORADO**

**RESUBMITTAL: OCTOBER 28, 2019**



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## **Project Summary**

### ***Project Location***

ConocoPhillips Company, a Delaware corporation, and its subsidiary Burlington Resources Oil & Gas Company LP, a Delaware limited partnership, (Applicant) submits this application for approval of a Site Plan from the City of Aurora, Colorado, a municipal corporation (City) for the Eastern Hills North 4-65 20-19 1AH, 1BH, 1CH, 1DH, 2AH, 2BH, 2CH (Well Site).

Eastern Hills North 4-65 17-18 is an existing oil and gas well facility that is in the southeast corner of Section 17, Township 4 South, Range 65 West. While two wells were approved with Phase 1(2DH and 3H\_D) only one well (2DH) was drilled. The applicant no longer plans to drill 3H\_D. The 2DH is approximately 2,063 feet south of the north section line and 700 feet from the east section line. Phase 2 has seven proposed wellheads located 150 feet north of the existing Phase 1 wellhead 2DH. The seven wells are spaced 25' in the north-south direction, where the northern most well is located 1,759 feet away from the northern section line. All seven wellheads are in line with the Phase 1 wellhead 2DH and are 700 feet from the eastern section line. The total disturbed area for the Phase 2 site is 9.93 acres. The nearest residence is over 1,659' away, this distance is from the northern edge of the future Phase 2 pad to the northern Adonea subdivision. This site drains to the First Creek watershed and lies outside of the floodplain. Existing topography generally falls from the southeast to the northwest. The landscape is used for planted crops. The project site is on land classified as Northeast Plains Medium Density Residential Subarea (NEP-MRES). Please refer to the Context Map.

### ***Purpose, Well Site Construction and Access Road***

Applicant intends to drill and complete seven oil and gas wells from one pad. The proposed wells will be known as the Eastern Hills 4-65-29-30 1AH, Eastern Hills 4-65-29-30 1BH, Eastern Hills 4-65-29-30 1CH, Eastern Hills 4-65-29-30 1DH, Eastern Hills 4-65-29-30 2AH, Eastern Hills 4-65-29-30 2BH, and Eastern Hills 4-65-29-30 2CH. The desired outcome of this application is to permit the construction of this Well Site. The purpose of the wells is to produce hydrocarbons from underlying formations known to have commercial potential from the production of such substances.

The total disturbance for Phase 1 and 2 will be 16.31 acres; the drilling pad will be 3.82 acres during drilling and completion. The total reclaimed area will be reduced to 10.74 acres for both Phase 1 and Phase 2 after interim reclamation. The pad will be graded flat (0%) and covered with 6" of granular material to encourage minor stormwater events absorbing into the ground, minimize runoff, and to benefit the existing topography. The existing topography sheet flows southwest to northeast at an existing grade of approximately 3.0%-3.5%. there will be minimal disruption to the use of the remaining area of the parcel.

The Well Site will be accessed by an existing constructed private gravel roadway 690 feet long and 23 feet wide to an existing private access that is accessed from Powhaton Road. The City of Aurora and Applicant have agreed to a plan in which there will be two haul routes: one pre-oil pipeline installation, and one post-oil pipeline installation. The pre-oil pipeline haul route will be to proceed South on Powhaton Road for 3.1 miles to Jewell Avenue, then East on Jewell Avenue to Watkins Road, then North on Watkins Road for 4 miles to I-70 before merging onto the Interstate heading West. The post-pipeline haul route will be

to proceed North on Powhaton Road for 3 miles, then to the I-70 frontage road to merge onto I-70 heading West.

Drilling operations will occur on the center/western portion of the pad, while the production facilities will be located along the eastern edge.

The timing of all phases of operations are subject to change due to equipment availability, safety considerations, and weather cooperation. Construction of the Well Site and access road will require approximately 45 days of work. BMPs will be installed to mitigate the earthmoving activities and to stabilize the disturbed surfaces to achieve revegetation. A wildlife fence will be erected around the Well Site and a locked gate and cattle guards will be installed at the access road/Well Site entrance. This fencing, gate, and cattle guard will provide security for the life of the Well Site.

The BMP Site Specific narratives that follow summarize the BMPs listed in Exhibit C of the Operator Agreement between the City of Aurora and ConocoPhillips Company and its subsidiaries, dated June 5, 2019 with a brief explanation of how the Applicant intends to accomplish the obligation of each specific BMP for the Eastern Hills North project.

*Please note that the numbering does not correlate to the individual BMP Operating Agreement numbers.*

1. **Definitions:** The Operator Agreement references the following defined terms that have been used throughout this application: **Residential Building Unit, High Occupancy Building, Construction Phase, Drilling Phase, Completion Phase, Production Phase, and Reclamation Phase.** (*See Operator Agreement, Exhibit C, BMP No. 1.*)
2. **Access Roads:** The access road for the Eastern Hills Phase 2 North project uses the same access road as Phase 1 of the Eastern Hills 4-65 29-30 2DH (aka the Eastern Hills Phase 1 North) well that was drilled in September 2018. The access road was built in July 2018. The final access road alignment was laid out during the civil survey. The route was also based on the surface rights that were granted in the Surface Use Agreement along with the local topography. The access point at the nearest public roadway was determined by sight distances and setbacks from existing intersections. The first one hundred feet (100') was constructed of asphalt. The access road was constructed in conformance with the City's 2016 Roadway Specification Manual. (*See Operator Agreement, Exhibit C, BMP No. 28; Site Plan: General Construction Notes 4&6; Fire Access Road and Pad Construction Note Nos. 1, 2 and 3; and Operations Plan.*)
3. **Air Quality:** Applicant's Environmental Group has been working with City Planning staff (Juliana Berry) to revise an Air Quality Field Wide Plan as well as a Site-Specific Plan pursuant to discussions on September 18, 2019 and submitted with this Application. This comprehensive plan addresses policies and procedures used to evaluate, eliminate, capture, or minimize all potentially harmful emissions and compliance with all applicable state and federal regulations, including regulations promulgated by Colorado Department of Public Health and Environment, Colorado Oil and Gas Conservation Commission and United States Environmental Protection Agency. Applicant will be working with Apis, Inc., a third-party vendor who manufactures and services the air quality monitoring stations within 500 feet of the Well Site. At least five days prior to oil and gas operations commencing, the background monitoring station(s) will be placed away from and upwind of the emission concern areas. The air quality monitoring stations will provide continuous monitoring throughout the life of the well(s). Vendor will also manually deploy at least one whole-air canister to collect samples for a one-week time span prior to oil and gas operations commencing. (*See Operator Agreement, Exhibit C, BMP No. 15; Air Quality Plan, and Site Plan.*)

4. **Anchoring:** During Drilling and Completion phases of the Eastern Hills North, all equipment requiring anchoring is anchored using surface anchors or removable anchoring systems, no anchors are left behind for future use. During Production Phase, tanks and separation equipment are secured to the ground using anchors engineered to resist flotation, collapse, lateral movement, or subsidence. The Eastern Hills North location is not in a floodplain. *(See Operator Agreement, Exhibit C, BMP No. 41.)*
5. **Automatic Safety Protective Systems and Surface Safety Valves:** The Eastern Hills North Well Site will be equipped to operate remotely via the automated safety protective system. This system monitors flowing pressures and other operating parameters which have predetermined threshold values programmed and will remotely shut the well in should certain upset conditions be detected. All vessels and tanks are equipped with high level remote shutdowns to prevent an overflow scenario. Additionally, the automated safety system provides the ability to remotely shut-in wells on demand through operator remote intervention. *(See Operator Agreement, Exhibit C, BMP No. 45 and Operations Plan.)*
6. **Burning:** The Applicant will not allow open burning of debris to occur on the Eastern Hills North Well Site or any oil and gas operation, as per City code. This does not include emergency flares. *(See Operator Agreement, Exhibit C, BMP No. 6 and Operations Plan.)*
7. **Chemical Disclosure and Storage:** All hydraulic fracturing chemicals will be disclosed to the Aurora Fire Rescue department. Prior to the bringing of such chemicals onto the Eastern Hills North property, the Applicant will make available to the City the storage, containment and disposal method for such chemicals. *(See Operator Agreement, Exhibit C, BMP No. 7 and Operations Plan.)*
8. **Class II Underground Injection Control Wells:** The Applicant will not develop, use, operate, or contract with any third party for the use of any Class II underground injection control wells within the city limits or within a four-mile buffer of the City's existing or planned critical infrastructure. Notwithstanding the four-mile buffer, Applicant may use the Class II underground injection well operated by Expedition Water Solutions located in the SW/ 4 of Section 5, T5SR64W in Arapahoe County. *(See Operator Agreement, Exhibit C, BMP No. 34; and Operations Plan.)*
9. **Closed-Loop Pitless System for the Containment and/or Recycling of Drilling Fluids:** The Eastern Hills North wells will be drilled, completed and operated using closed-loop pitless systems for containment and/or reuse of all drilling, completion, flowback and produced fluids. Applicant will reuse fluids to the maximum extent practicable, with the City's understanding that Applicant is limited in its ability to reuse all fluids. All above ground storage, including tanks and separators, for use during drilling, completion, flowback and other produced fluids will have secondary containment. The secondary containment system used around the tank battery is an engineered steel panel containment wall with a full impermeable synthetic liner under all tanks and up the sides of the containment wall. This system is consistent across our operations, no difference between site specific and field wide design. *(See Operator Agreement, Exhibit C, BMP No. 5; Operations Plan and Site Plan.)*
10. **Color/Paint Color:** All permanent above ground associated production equipment, structures and stationary equipment for the Eastern Hills North will be painted in a tan or brown matte finish unless a different color is necessary for safety per regulations. *(See Operator Agreement, Exhibit C, BMP No. 8; Operations Plan; and Site Plan Note No. 3.)*

- 11. Combustion Devices:** Combustors will be available at the Eastern Hills North Well Site during the entire production phase to eliminate fugitive emissions for maintenance or emergency use only. The device will be fired using natural gas and operate with a 98% or higher hydrocarbon destruction efficiency. The device will be designed and operated in a manner that will ensure no visible emissions during normal operation. Visible emissions do not include radiant energy or water vapor. *(See Operator Agreement, Exhibit C, BMP No. 19; Operations Plan; Air Quality Plan and Site Plan (Production page) Best Management Practices Note No. 7.)*
- 12. Containment Berms:** A containment system capable of containing one and one-half times (150%) the capacity of the largest vessel, plus sufficient freeboard to prevent overflow will be constructed around all permanent tanks at the Eastern Hills North Well Site. The containment system will be constructed of a steel-rim berm and lined with a synthetic or engineered liner, mechanically connected to the steel-rim which will surround all primary containment vessels. When used, temporary vessels will have secondary containment constructed from lined earthen berms or pre-engineered, duck-pond style containment systems. All berms and containment devices will be inspected quarterly. *(See Operator Agreement, Exhibit C, BMP No. 40; Site Plan; Notes #2, Best Management Practices Note No. 2.)*
- 13. Cultural and Historical Resource Protection:** Applicant has not discovered any landmark buildings or sites within the disturbance area for the Eastern Hills North. Construction, alteration, removal or demolition of a building or feature or any changes that would impair the cultural or historical association of the landmark building, landmark site or historical district pursuant to those qualities depicted in the City of Aurora Municipal Code will not be made without first obtaining approval. If there is a discovery of historical artifacts at the Eastern Hills North Well Site, the City will be notified. *(See Operator Agreement, Exhibit C, BMP No. 47 and Operations Plan.)*
- 14. Discharge Valves:** Open-ended discharge valves on all storage tanks and other containers within the Eastern Hills North Well Site will be secured, capped, or blind-flanged, and so they will not be accessible to the general public. The Applicant will ensure that all open-ended discharge valves within the Well Site are placed within the interior of the secondary containment area. *(See Operator Agreement, Exhibit C, BMP No. 11 and Operations Plan.)*
- 15. Electric Equipment:** Applicant is currently working with Xcel Energy to build out electric capacity and infrastructure to power drilling equipment starting June 1, 2020. Applicant will continue to work with Xcel in good faith to secure electric power six months prior to the projected spud date for New Wells at the Eastern Hills North Well Site. The operator will continue reasonable efforts to expedite use of electrical line power to operate production equipment *(See Operator Agreement, Exhibit C, BMP No. 13 and Operations Plan.)*
- 16. Events or Incidents:** In the event of a medical, fire or explosion incident on the Eastern Hills North Well Site, 911 will be called and local emergency services will be dispatched. Any COGCC reportable safety events or OSHA reportable injuries at the Eastern Hills North Well Site will be reported to the City within 24 hours. *(See Operator Agreement, Exhibit C, BMP No. 37 and Emergency Response Plan.)*
- 17. Emergency Response Plan:** A site specific Emergency Response Plan (ERP) has been submitted for this site. The Applicant's emergency response will be uniform and will be executed in the format outlined in the ERP for all emergencies. A revised Emergency Response Plan has been provided to the City. The ERP provides 24 hour contact information for persons responsible for emergency field operations, information on evacuation routes and locations of healthcare facilities

anticipated to be used as well as a detailed plan for response to emergencies that may include any or all of the following: explosions, fires, gas, oil or water pipeline leaks or ruptures. The ERP also provides guidance on training and coordination and communication with City emergency personnel and departments. *(See Operator Agreement, Exhibit C, BMP No. 14, and Emergency Response Plan.)*

18. **Fencing:** Secure, opaque fencing will be installed at the Eastern Hills North Well Site after interim reclamation has been completed. This fencing will be eight feet tall. *(See Operator Agreement, Exhibit C, BMP No. 17 and Site Plan.)*
19. **Flammable Material:** The Eastern Hills North Well Site will be maintained in a manner so to ensure that all ground within twenty-five (25) feet of any tank or other structure containing flammable or combustible materials will be kept free of dry weeds, grass, rubbish or landscaping. *(See Operations Plan and Operator Agreement, Exhibit C, BMP No. 18.)*
20. **Flowlines:** All flowlines (the pipeline connecting the wellhead to the production facility) are contained entirely within the boundary of the well pad. No off-location flowlines as defined and set forth in COGCC Rule 1101, will be utilized. *(See Operations Plan, Operator Agreement, Exhibit C, BMP No. 42 and Site Plan; Notes #11.)*
21. **Fugitive Dust Suppression:** Dust associated with Site activities and traffic on roads will be minimized throughout all phases such that there are no visible dust emissions from sites or roads to the maximum extent practicable given wind conditions. Numerous mitigation measures are in place to minimize dust emissions including (but not limited to): application of fresh water to roads and ground during earth moving activities, curtailment of work during windy conditions and re-establishment of vegetation on disturbed areas that are not graveled. *(See Operations Plan and Operator Agreement, Exhibit C, BMP No. 12, Dust Suppression Plan.)*
22. **General Maintenance:** All equipment will be operated and maintained pursuant to manufacture specifications consistent with technological limitations and reasonable and customary maintenance practices. In addition to automated shutdowns, preventative maintenance and best practices are in place to prevent leaks from vessels. These include (but are not limited to) yearly shut-downs and visual inspections of each 2-phase and 3-phase vessel on site, yearly non-destructive testing of each 2-phase and 3-phase vessel shell and head on site, internal coating to prevent corrosion, weekly environmental checks by operations personnel, non-destructive testing of all water piping, and non-destructive testing of various flowlines to monitor for thin walled piping caused by erosion or corrosion. *(See Operator Agreement, Exhibit C, BMP No. 35 and Operations Plan.)*
23. **Landscaping:** Landscaping will be performed on the Eastern Hills North once reasonable access to a City water main is within four hundred feet (400') of the Well Site. *(See Operations Plan and Operator Agreement, Exhibit C, BMP No. 20, and Site Plan: Landscape Plan Sheet(s).)*
24. **Lighting:** Lighting is only used during the Drilling and Completion Phases of operations. No permanent lighting will be installed. All lighting used will be situated so that is downcast and does not shine beyond the boundary of the oil and gas operations area. *(See Operations Plan and Operator Agreement, Exhibit C, BMP No. 21 and Lighting Plan, Site Plan; Photometric Sheet(s).)*
25. **Low Profile Tanks:** All tanks installed on the well site will be no taller than sixteen feet (16'). *(See Operations Plan and Operator Agreement, Exhibit C, BMP No. 9, and Site Plan: Production*

*Equipment Representative Table.)*

- 26. Maintenance of Machinery:** Routine field maintenance of vehicles and mobile machinery will not be performed within 500 feet of navigable waters of the United States. All fueling will occur over impervious material. The Maintenance Supervisor and all supporting personnel will be responsible for compliance with BMP No. 22. *(See Operator Agreement, Exhibit C, BMP No. 22 and Operations Plan.)*
- 27. Mud Tracking:** The Applicant will take all practicable measures to ensure that vehicles do not track mud or debris onto City streets. If mud or debris is deposited on City streets the Applicant will clean the streets in a reasonable amount of time, or within 24 hours of notice by the City. If the clean-up cannot be done or is postponed the Applicant will notify the City. Further information may be found in the Operations Plan. This will be accomplished by the Construction Supervisor, Drilling Superintendent, Completions Supervisor and Maintenance Supervisor who understand this requirement and has the responsibility to ensure their teams will meet this requirement. *(See Operator Agreement, Exhibit C, BMP No. 23 and Operations Plan.)*
- 28. Noise Management Plan/Noise Mitigation:** The Applicant will comply with the sound limitation regulations set forth in the COGCC 800 Series Aesthetic and Noise Control regulations. The Applicant had Behrens Engineering, a third-party engineering firm, perform an environmental noise impact assessment and will follow its mitigation recommendations to stay in compliance with the COGCC 800 series requirements. Applicant provided Behrens' Noise Modeling Report to the City.
- Per Section 2.2 of the OA, Applicant is required to conduct a baseline noise study if a New Well is planned within 2,640' of 5 Residential Building Units (RBU) or 1 High Occupancy Building (HOBu). There are more than five (5+) RBU's within 2,640' of the Eastern Hills North Well Site, and there are no HOBu's within 2,640' of the Eastern Hills North Well Site, so a baseline noise study will be conducted.
  - Per Section 2.3 of the OA, Applicant is required to use noise mitigation if a New Well is within the area identified on Exhibit A-2 to the OA or if the New Well is within 1,320' of a RBU or 1,500' of a HOBu. There are no (0) RBU's within 1,320' of the Eastern Hills North Well Site, and there are no (0) HOBu's within 1,500' of the Eastern Hills North Well Site. However, the Eastern Hills North Well Site is located within the area identified on Exhibit A-2 to the OA, so Applicant will use noise mitigation during the Drilling and Completion Phases for the Eastern Hills North Well Site. Applicant will use berming, bales, sound walls or any other appropriate measure to mitigate noise emissions during these phases.
  - Per Section 2.4 of the OA, Applicant may be required to conduct additional noise mitigation for New Wells within 1,320' of a RBU. As stated above, there are no RBU's within 1,320' of the Eastern Hills North Well Site.
  - Per Section 2.6 of the OA, Applicant is required to address C scale noise/vibration if a New Well is within 1,320' of a RBU or 1,500' of a HOBu. As stated above, there are no (0) RBU's within 1,320' of the Eastern Hills North Well Site, and there are no (0) HOBu's within 1,500' of the Eastern Hills North Well Site. However, Applicant will already be using noise mitigation during the Drilling and Completion Phases for the Eastern Hills North Well Site pursuant to Section 2.3 of the OA.

Noise models of the proposed drilling and fracing operations were constructed for the Eastern Hills 4-65 17-18 1AH-2CH pad in Arapahoe County. The unmitigated noise models indicate that the fracing operations will exceed the C-weighted COGCC and OA noise limit at multiple modeled receiver locations. Mitigation was added to the unmitigated fracing noise model to reduce the noise levels at the residences in close proximity to the pad. With implementation of the recommended mitigation measures, the fracing operations are predicted to comply with the A-weighted and C-weighted COGCC and OA noise limits at all modeled receiver locations. (See Operator Agreement, Exhibit C, BMP No. 2 and Noise Mitigation Plan.)

- 29. Notifications to the City:** The Applicant will notify the City, through the designated City representative, no less than 30 days prior to the commencement of the Construction for the Eastern Hills North (unless the Construction Phase commences within 45 days of the approval of the applicable Form 2, Form 2A, or local permit), Drilling, or Completion Phases, and 30 days prior to recompleting, re-drilling, or plugging and abandonment of the well. Operator will provide all required notifications under the OA to the City by notifying Daniel Brotzman by e-mail at [dbrotzman@auroragov.org](mailto:dbrotzman@auroragov.org) as well as Stephen Rodriguez by e-mail at [srodrigu@auroragov.org](mailto:srodrigu@auroragov.org). (See Operator Agreement, Exhibit C, BMP No. 4.)
- 30. Noxious Weed Control:** All disturbed ground not needed for subsequent operations for the Eastern Hills North, including stockpiles and cut and fill slopes, are seeded and mulched in accordance with the permits. Approved weed-free seed mix is used, and these areas are monitored and maintained for weed establishment for the life of the well. (See Operator Agreement, Exhibit C, BMP No. 33, Weed Control Plan and Operations Plan.)
- 31. Odor:** Applicant will mitigate odors by routing to closed loop systems to the maximum extent practicable. If the Applicant receives complaints from a Residential Building within 1,320 feet from the site, Applicant will take measures to mitigate the odor within 24 hours, based on the specific circumstances. Further detail may be found in the Air Quality Plan and Operations Plan provided with this application. (See Operator Agreement, Exhibit C, BMP No. 36, Air Quality Plan and Operations Plan.)
- 32. PHA-Hazard and Operability Study:** The Applicant has provided a fieldwide analysis and a site-specific letter that the engineer of record has incorporated all applicable PHA-HAZOP recommendations in the design. On January 29, 2018 a PHA-HAZOP was facilitated by Cyndee R. Clouse, a certified facilitator, and conducted by a multi-disciplined team for the Multi-Well Pad Facility with Individual Separation. This study consisted of a risk assessment utilizing methodology commonly used while conducting a Process Hazard Analysis (PHA) with a Layers of Protection Analysis (LOPA). (See Operator Agreement, Exhibit C, BMP No. 44 and PHA- HAZOP Letter.)
- 33. Plugged and Decommissioned Well Testing:** There is one Previously Abandoned Well (State Smith 1-16) within 1500' of the completion portion of the projected track of the borehole of the proposed Eastern Hills 4-65 17-18 1AH, 1BH, 1CH, and 1DH. Applicant has assessed the integrity of the plugging and cementing of the State Smith 1-16, and the COGCC has agreed to Applicant's plan to use a reduced frac plan to mitigate this offset well. Applicant will seek permission to conduct soil testing of the State Smith 1-16 pursuant to the OA. (See Operator Agreement, Exhibit C, BMP No. 43 and Operations Plan.)
- 34. Reclamation:** Because the Eastern Hills North is surrounded by crop land, pursuant to COGCC rule 1003 (b.), Interim Reclamation will occur within three (3) months of first production. The Applicant will comply with COGCC Rules 1000 series governing the reclamation of sites. An ***Interim***

**Reclamation Plan** has been provided within the Site Plan for this application further detailing site-specific reclamation that will take place following the well(s) being put into production. Additional information regarding Interim reclamation may also be found in the Storm Water Management Plan (SWMP), submitted to the Public Works Department and approved by that department. A **Final Reclamation Plan** will be submitted to the City concurrently with the Applicant's plugging and abandonment permit submission to the COGCC. Areas reaching substantial completion of grading and topsoil placement operations will be drill seeded and crimp mulched within 14 days of substantial completion of grading and topsoil operations. If an incomplete area is to remain inactive for longer than 30 days, it will be drill seeded and crimp mulched or otherwise landscaped within 14 days from the suspension or completion of land disturbance activities. (See Operator Agreement, Exhibit C, BMP No. 39 and Operations Plan.)

- 35. Reduced Emission Completions (Commonly known as Green Completions):** The Applicant will comply with the EPA Reduced Emission Completions rules (under 40 CFR 60 Subpart OOOO and OOOOa) for oil and gas wells. Applicant will apply best management practices to safely maximize resource recovery and minimize releases to the environment. Applicant was an early adopter of reduced emissions completions (green completions), a charter member of the Natural Gas Star program, and is committed to reducing emissions from flaring and venting. For all projects in the City including the Eastern Hills North project, we plan to have a gas pipeline installed and ready to accept natural gas production immediately after initial flowback of wells on this site. Further detail may be found in the Operations Plan and the Air Quality Plan provided with this application. (See Operator Agreement, Exhibit C, BMP No. 16, Operations Plan and Air Quality Plan.)
- 36. Removal of Debris:** The Applicant will ensure that all construction-related debris is removed from the Well Site for proper disposal in a timely manner. The Applicant will ensure that Well Site is reasonably free of debris and excess materials at all times during all phases of operations. Applicant shall not stockpile debris at the Well Sites. (See Operator Agreement, Exhibit C, BMP No. 24 and Operations Plan.)
- 37. Removal of Equipment:** At the end of the flowback stage of development (the beginning of the Production Phase), all temporary equipment will be removed from the Eastern Hills North site (within 30 days), leaving only the wellhead(s) and the permanent production facilities, including, separators, storage tanks and emissions control equipment. No permanent storage of removable equipment will occur on any well site. (See Operator Agreement, Exhibit C, BMP No. 25 and Operations Plan.)
- 38. Road Repairs:** Road repairs will be addressed pursuant to the terms of Road Maintenance Agreement (RMA) executed January 3, 2018 and included with this submission. An amendment to the RMA is currently in process with the City. Pursuant to the RMA, the Applicant has agreed to pay road maintenance fees in lieu of road repair maintenance for the life of the well. The Applicant and the City have agreed that the Applicant will pay an initial fee of \$7,500 per well for road maintenance fees. During the Drilling and Completions Phases of development, the City will be responsible for frequent inspections of the Haul Route. If it is determined by City staff that road repairs are necessary, the City will promptly notify the Applicant, and the Applicant will provide a deposit of 125% of the estimated cost of repairs within 10 business days. (See Operator Agreement, Exhibit C, BMP No. 29, Operations Plan and Road Maintenance Agreement.)
- 39. Spills:** The Applicant will notify the City of any spill of materials on permeable ground at the Eastern Hills North Well Site that has a reportable quantity under any applicable laws. Applicant will provide a copy of the self-reporting submissions that the Applicant provides to the COGCC due to

any spill on the Well Site. Further detail may be found in the Spill Prevention, Control and Countermeasure Plan (SPCC) provided with this application. (See *Operator Agreement, Exhibit C, BMP No. 38 and Operations Plan.*)

- 40. Stormwater Management:** The Applicant will not begin construction of the Eastern Hills North Well Site until a Stormwater Water Management Plan (SWMP) is approved by the City and a stormwater quality discharge permit has been acquired for the Well Site. Applicant will perform monthly inspections of stormwater BMPs, or after a storm event. Further detail may be found in the SWMP provided with this application. (See *Operator Agreement, Exhibit C, BMP No. 30, Operations Plan and Stormwater Management Plan.*)
- 41. Trailers:** The Applicant will not place any permanent trailers on the Eastern Hills North Well Site. The Applicant will have temporary construction trailers on site during the Construction, Drilling and Completion phases of development and up to 6 months following the Completions phase of development. (See *Operator Agreement, Exhibit C, BMP No. 26, Operations Plan, and Site Plan (Drilling sheet).*)
- 42. Transportation and Circulation:** The Applicant will follow the Traffic Management Plan and Traffic Letter provided with this application. Haul routes have been depicted on the Haul Route Map in the Site Plan for all phases of development. Pursuant to the terms of Road Maintenance Agreement (RMA) executed January 3, 2018, and subsequently amended to include additional routes but not yet fully executed, ConocoPhillips Company and the City have agreed to allow the use of those roads depicted in Exhibit B of the RMA in conjunction with the development of City Well Sites. The Eastern Hills North project is depicted on the original Exhibit to the RMA that was executed on January 3, 2018. The pre-oil pipeline haul route from the Well Site will follow the private access road to Powhatan Road. Traffic will flow South to Jewell Avenue, then East to Watkins Rd., then North to I-70. The post-oil pipeline from the route will follow the private access road to Powhatan Road, then North on Powhatan Road to the I-70 frontage road, then East to I-70. (See *Operator Agreement, Exhibit C, BMP No. 27 and Road Maintenance Agreement.*)
- 43. Transportation and Storage of Fluids:** The Applicant will utilize pipelines for the transportation of hydrocarbons for the Eastern Hills North. Non-potable water used for hydraulic fracturing will be transported by above-ground water supply line, typically 12” in diameter and typically made of synthetic rubber or similar “hose” material. They are used for the transfer of water from an identified water source to support company’s hydraulic fracturing operations. Permanent tanks will be used for storage and transportation of produced water, and for storage of oil under downtime due to third parties. All third-party trucking operations will be subject to the Applicant’s HSE policies and procedures. (See *Operator Agreement, Exhibit C, BMP No. 3, Site Plan (Operations Plan page), and the Water Delivery Method.*)
- 44. Tree Mitigation:** There are no trees required to be removed at the Eastern Hills North Well Site. (See *Operator Agreement, Exhibit C, BMP No. 10, and Operations Plan.*)
- 45. Visual Mitigation:** Operator Agreement, Exhibit C, BMP No. 49 applies to four specific Well Sites, the Eastern Hills North is not one of these Well Sites. (See *Operator Agreement, Exhibit C, BMP No. 49.*)
- 46. Wastewater and Waste Management:** All fluids and waste will be contained and disposed of at licensed disposal or recycling facilities outside of the City. Applicant will provide a Spill Prevention, Control and Countermeasure Plan (SPCC) with the application. (See *Operator Agreement, Exhibit*

*C, BMP No. 31, Waste Management Plan and the SPCC Plan attached as an appendix thereto, and Operations Plan.)*

- 47. Water Protection Requirements:** Identification of sensitive water resources begins in the pre-development planning stage of the project. The proximity of wells to existing City infrastructure is depicted on the Adjacent Visible Improvements sheet of the Site Plan. BMP No. 48 describes that all new wells will be located a minimum of 500' from City Infrastructure unless vibratory studies confirm that no negative impacts occur to the City Infrastructure, in this case the wells may be setback 350' from City Infrastructure. The results of a vibratory study were provided to the City of Aurora Water Department and it was confirmed that a 350' setback was acceptable. (See *Operator Agreement, Exhibit C, BMP No. 48 and Operations Plan.*)
- 48. Water Quality Monitoring Plan/Groundwater Pollution Mitigation:** The Applicant will sample existing water wells prior to drilling activities and will continue to sample existing or installed wells through the Production Phase, until final Reclamation Phase is completed for the well site to ensure that groundwater has not been contaminated by the Applicant's activity. As the well is constructed, concentric layers of steel casing and cement form the barrier to protect groundwater resources from the contents that will later flow inside the well mitigating any potential pollution for groundwater pollution. The depth of the casing will extend to the deepest known depth of the freshwater aquifers. Surface casing is set at +/- 2600 ft TVD and cemented to surface. The production casing is a long string and is cemented to 200 ft inside the surface casing by design. If needed during the Drilling Phase, Applicant shall run temperature or cement log if surface casing cement is not circulated to the surface in order to ensure integrity. Completion well preparation tests production casing to 9800 psi before opening toe sleeve or perforating toe. If pressure test is unsuccessful (i.e. the toe valve leaks) a plug is deployed to test to 9800 psi as deep as the plug will go on wireline. During the production phase the Applicant will monitor casing pressures using pressure transmitters in the surface. Bradenhead testing will be performed during the completions phase with COGCC staff onsite. (See *Operator Agreement, Exhibit C, BMP No. 46, Fieldwide Water Quality Monitoring Plan, Site Specific Water Quality Monitor location on the Site Plan and Operations Plan.*)
- 49. Water Supply:** Pursuant to the terms of the Agreement for Delivery of Reusable Raw Water effective September 26, 2017 between the City of Aurora and ConocoPhillips Company the Applicant will take delivery from the City of water to be used during the Drilling, Completions, and Production Phases of development. Further details may be found within the Agreement for Delivery of Reusable Raw Water and in the Water Delivery Method. Operator has a site-specific Water Delivery Plan and Method that has been provided to the City with this application. These temporary, above-ground water supply lines ("Lay Flat Lines") are typically 12" in diameter and made of synthetic rubber or similar "hose" material. They are used for the transfer of water from an identified water source to support hydraulic fracturing operations. (See *Operator Agreement, Exhibit C, BMP No. 32, Agreement for Delivery of Reusable Raw Water effective September 26, 2017 between the City of Aurora and ConocoPhillips Company, and Operations Plan.*)

# **NEIGHBORHOOD MEETING RESULTS**

## Farkas, Scott (Veracity Land Services, LLC)

---

**Subject:** FW: ConocoPhillips Open House  
**Attachments:** file-7.jpeg; file1-2.jpeg; file2.jpeg; file3.jpeg

---

**From:** Mead, Jayme L <[Jayme.Mead@conocophillips.com](mailto:Jayme.Mead@conocophillips.com)>  
**Sent:** Monday, August 12, 2019 8:55 AM  
**To:** [blegare@auroragov.org](mailto:blegare@auroragov.org)  
**Subject:** ConocoPhillips Open House

Good morning Mayor,

I know you are aware that ConocoPhillips hosted our neighborhood meeting on August 6<sup>th</sup> for ten projects reflected in our Operator's Agreement with the City. We had a diverse team pulled together to engage and educate citizens in Aurora on our operations. We had subject matter experts present from ConocoPhillips representing the following fields: health and safety, noise mitigations, permitting, drilling and completions. We sent out 966 invitations to residents within 1 mile of our locations and had 15 residents in attendance. Although the turnout was low, citizens in attendance were very engaged and provided positive feedback on their experience with our staff and the overall flow of the open house.

Here are the only comments received from the open house:

- *"This open house was very organized! I really appreciate the individual time each ConocoPhillips Person showed to the participants. Super Job!"*
- *"All the different informational tables were staff with top notch professionalism. Will attend a follow-up session hopefully if it's planned. Thanks for the invitation."*

I've attached a few pictures from the event to give you an idea of our setup. Please let me know if you have any questions.

Best regards,

**Jayme Mead** | Stakeholder Relations Advisor Niobrara  
**ConocoPhillips** | 34501 E Quincy Ave. Watkins CO, 80137  
T: 303.268.3757 | M: 505.215.6615 | [Jayme.Mead@conocophillips.com](mailto:Jayme.Mead@conocophillips.com)









# **TYPICAL PHOTOS**



AURORA COLORADO OIL & GAS OPERATIONS  
DRILLING RIG

CONOCOPHILLIPS COMPANY

ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
DRILLING RIG WITH AUTOMATIC PIPE HANDLING

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
DIESEL FUEL AND GENERATORS WITH SECONDARY CONTAINMENT

CONOCOPHILLIPS COMPANY

ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
MATERIALS STORAGE WITH SECONDARY CONTAINMENT

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
PIPE STORAGE RACK

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
OFFICES & TEMPORARY LIVING QUARTERS

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



SAND CASTLES AND TRUCKS

TRUCKS AND PUMPS



AURORA COLORADO OIL & GAS OPERATIONS  
COMPLETION SITE

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
TEMPORARY SOUND MITIGATION WALLS

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546

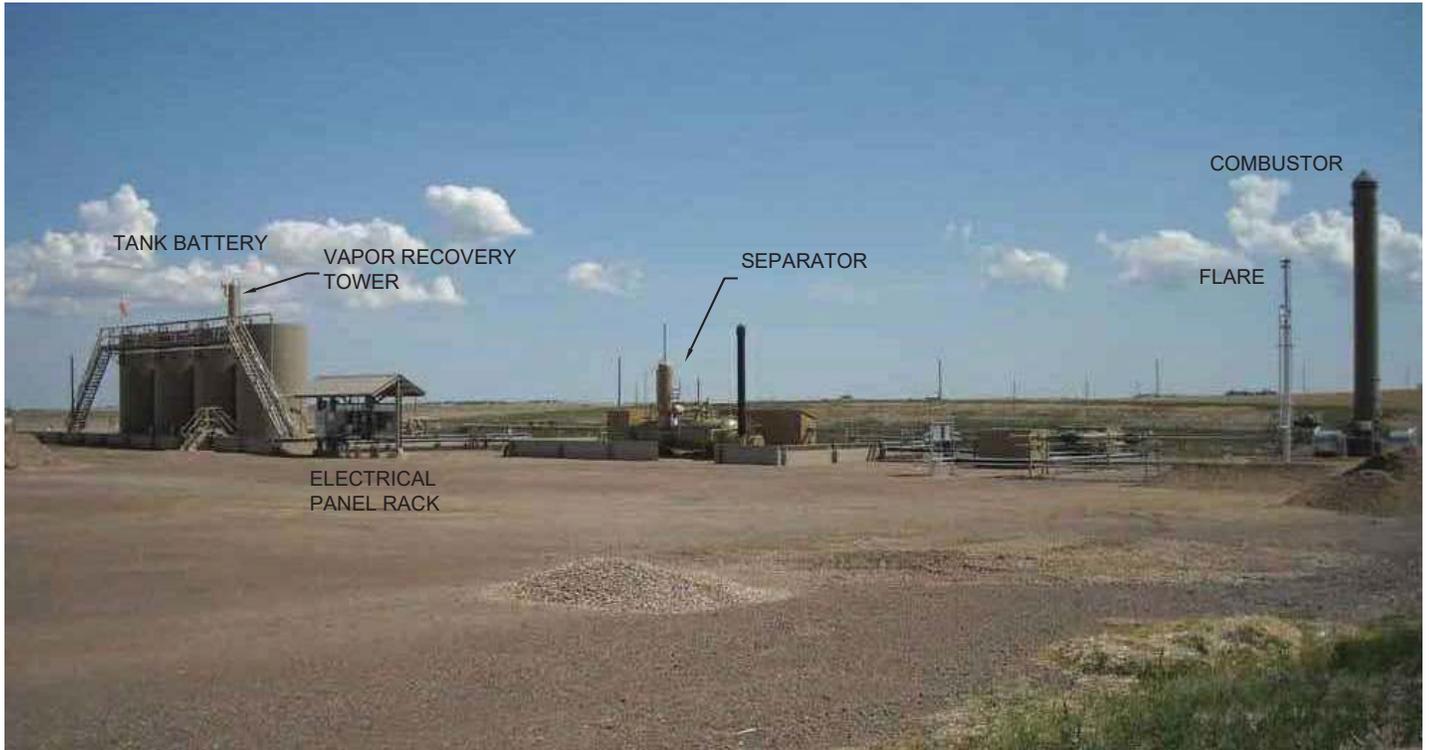


AURORA COLORADO OIL & GAS OPERATIONS  
MOBILE TORNADO SHELTER

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773

**CVL**  
**CONSULTANTS**  
CIVIL ENGINEERING LAND SURVEYING

10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
PRODUCTION FACILITY

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137





AURORA COLORADO OIL & GAS OPERATIONS  
WORKOVER RIG-PRODUCTION SETTING

CONOCOPHILLIPS COMPANY



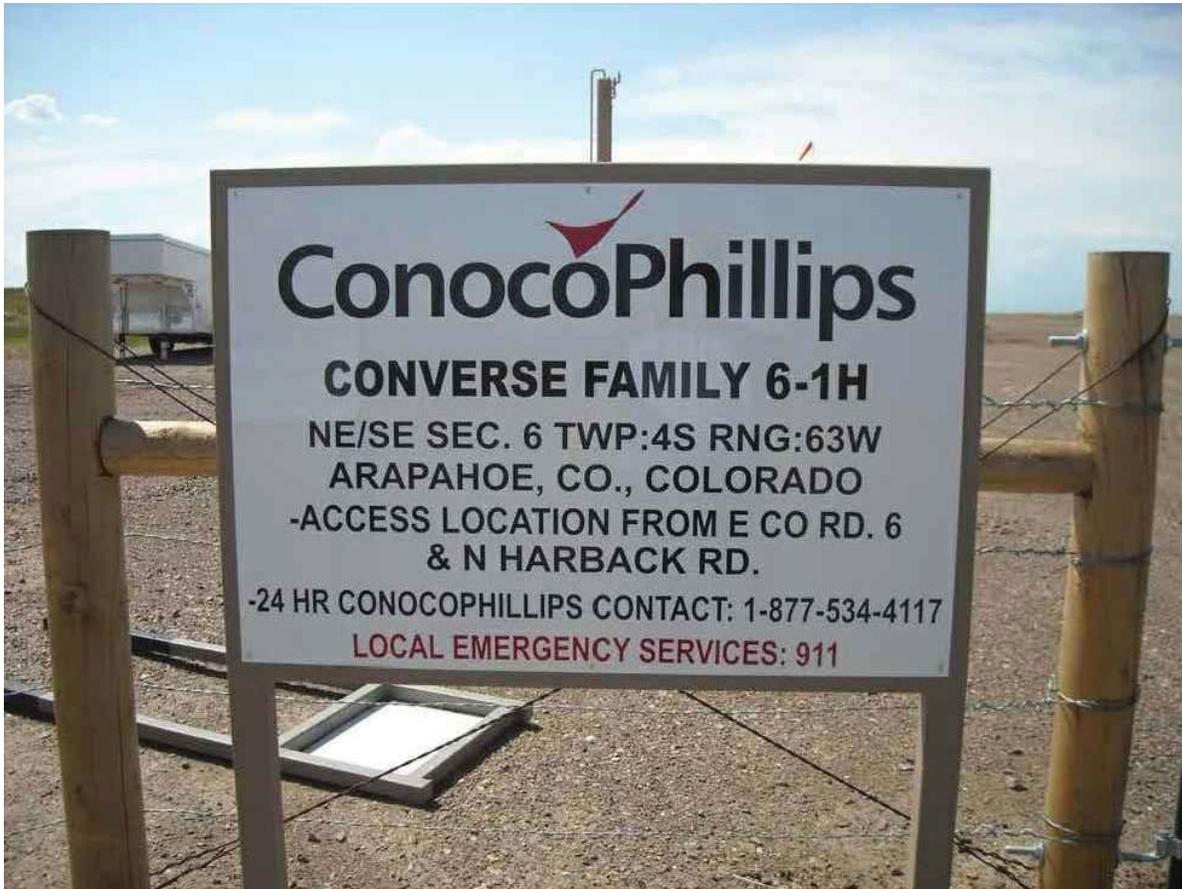


AURORA COLORADO OIL & GAS OPERATIONS  
CLOSED LOOP DRILLING SYSTEM (MUD TANKS)

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



AURORA COLORADO OIL & GAS OPERATIONS  
SIGNAGE

CONOCOPHILLIPS COMPANY  
ATTN: KATHY DENZER  
34501 E. QUINCY AVE., BUILDING 1  
WATKINS, CO 80137  
PHONE: (303) 268-3773



10333 E. Dry Creek Rd.  
Suite 240  
Englewood, CO 80112  
Tel: (720) 482-9526  
Fax: (720) 482-9546



# **PLAT PACKAGE**

**(excerpts)**



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: EASTERLY

**LEGEND:**



**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017



**ConocoPhillips Company**

**EASTERN HILLS #4-65 17-18 2DH, 3H D,  
 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO**

<b>SURVEYED BY</b>	M.M., G.W.	04-20-18	
<b>DRAWN BY</b>	J.L.G.	04-25-18	
<b>LOCATION PHOTOS</b>		<b>PHOTO 1</b>	



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: WESTERLY

**LEGEND:**



**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017



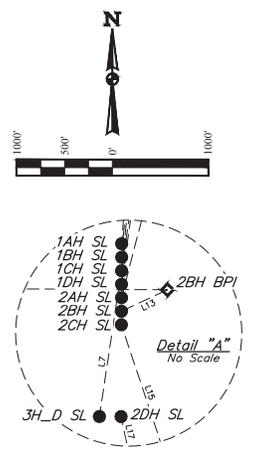
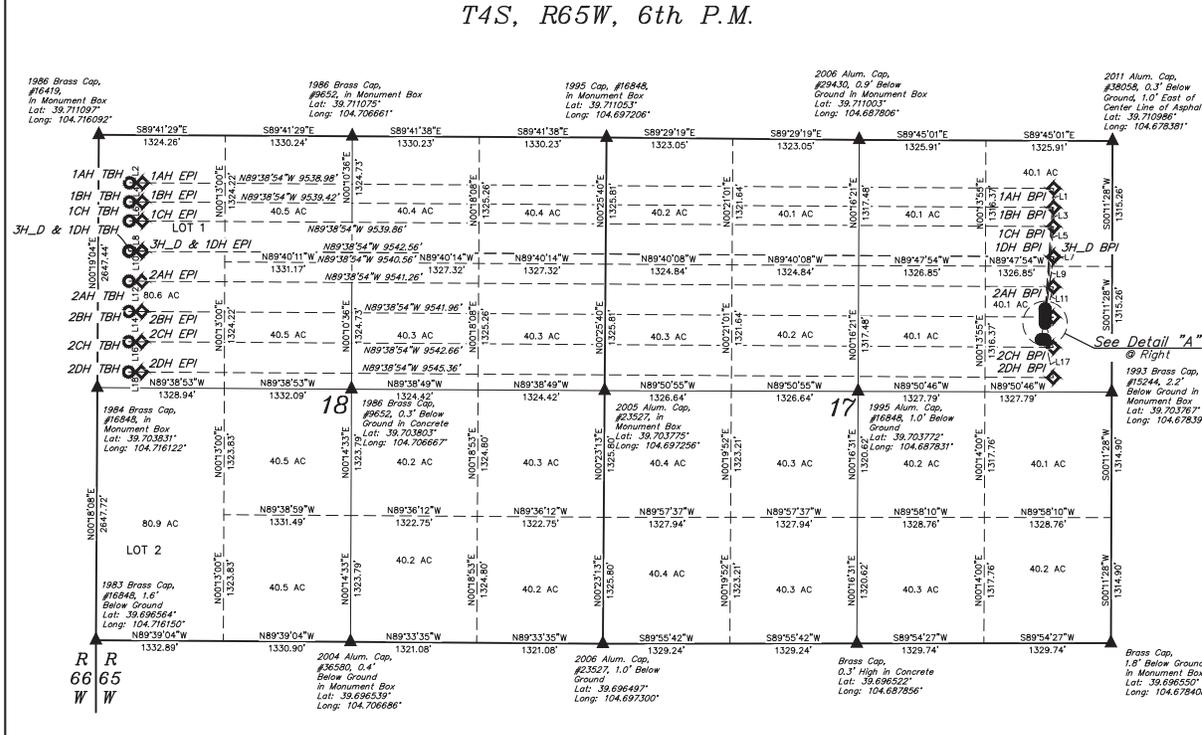
**ConocoPhillips Company**

**EASTERN HILLS #4-65 17-18 2DH, 3H D,  
 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO**

SURVEYED BY	M.M., G.W.	04-20-18	
DRAWN BY	J.L.G.	04-25-18	
<b>LOCATION PHOTOS</b>			<b>PHOTO 2</b>

T4S, R65W, 6th P.M.

**ConocoPhillips Company**  
**EASTERN HILLS #4-65 17-18 2DH, 3H D, 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M. ARAPAHOE COUNTY, COLORADO**  
 BASIS OF BEARINGS IS A G.P.S. OBSERVATION  
 BASIS OF ELEVATION  
 BENCHMARK 374 LOCATED ON THE SECTION LINE BETWEEN SECTIONS 12 & 13, T5S, R64W, 6th P.M., TAKEN FROM 1988 PUBLISHED DATUM BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY AS BEING 6054.61 FEET.



**LEGEND:**  
 — = 90° SYMBOL  
 ● = PROPOSED WELLHEAD  
 ○ = TARGET BOTTOM HOLE  
 ▲ = PRODUCTION INTERVAL  
 ◆ = SECTION CORNERS LOCATED  
 SL = SURFACE LOCATION  
 BPI = BEGINNING PRODUCTION INTERVAL  
 EPI = ENDING PRODUCTION INTERVAL  
 TBH = TARGET BOTTOM HOLE

LINE	DIRECTION	LENGTH
L1	N04°02'10"E	1265.72'
L2	N89°41'29"W	135.00'
L3	N04°39'11"E	1091.29'
L4	N89°41'29"W	135.00'
L5	N05°30'09"E	916.95'
L6	N89°41'29"W	135.00'
L7	N08°31'23"E	876.21'
L8	N89°41'29"W	135.00'
L9	N07°57'56"E	627.73'

LINE	DIRECTION	LENGTH
L10	N89°41'29"W	135.00'
L11	N14°32'06"E	342.66'
L12	N89°41'29"W	135.00'
L13	N64°59'12"E	93.83'
L14	N89°41'29"W	135.00'
L15	S18°26'11"E	265.94'
L16	N89°41'29"W	135.00'
L17	S12°06'17"E	408.39'
L18	N89°41'29"W	135.00'

WELL	SURFACE LOCATION	BEGINNING PRODUCTION INTERVAL	ENDING PRODUCTION INTERVAL	TARGET BOTTOM HOLE
1AH	1763' FNL 700' FEL	500' FNL 615' FEL	500' FNL 460' FWL	500' FNL 325' FWL
1BH	1786' FNL 700' FEL	700' FNL 615' FEL	700' FNL 460' FWL	700' FNL 325' FWL
1CH	1913' FNL 700' FEL	900' FNL 615' FEL	900' FNL 460' FWL	900' FNL 325' FWL
1DH	1838' FNL 700' FEL	1216' FNL 615' FEL	1216' FNL 460' FWL	1216' FNL 325' FWL
2AH	1863' FNL 700' FEL	1531' FNL 615' FEL	1531' FNL 460' FWL	1531' FNL 325' FWL
2BH	1889' FNL 700' FEL	1848' FNL 615' FEL	1848' FNL 460' FWL	1848' FNL 325' FWL
2CH	1913' FNL 700' FEL	2165' FNL 615' FEL	2165' FNL 460' FWL	2165' FNL 325' FWL
2DH	2083' FNL 700' FEL	2482' FNL 615' FEL	2482' FNL 460' FWL	2482' FNL 325' FWL
3H-D	2083' FNL 740' FEL	1216' FNL 615' FEL	1216' FNL 460' FWL	1216' FNL 325' FWL

CERTIFICATE OF ACCURACY  
 THIS IS TO CERTIFY THAT THE ABOVE NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 28285  
 STATE OF COLORADO  
 MATHIEW MILLER

**UINTECH**  
 ENGINEERING & LAND SURVEYING  
 UELS, LLC  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017  
 SURVEYED BY: MATTHEW MILLER, G.W. 04-20-18 SCALE: AS SHOWN  
 DRAWN BY: CIVIL 05-07-18 1" = 1000'  
**SECTION BREAK DOWN**



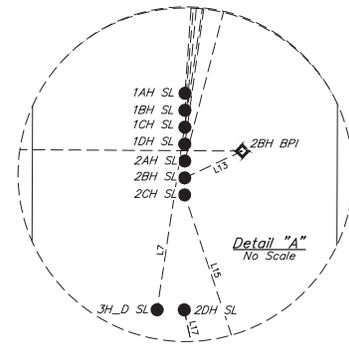
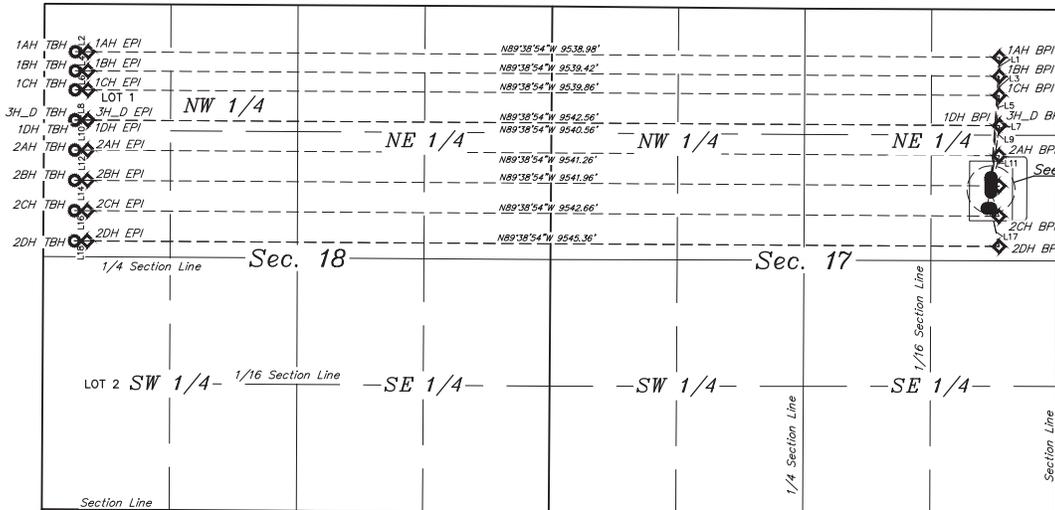
**LEGEND:**

- = SURFACE LOCATION.
- = TARGET BOTTOM HOLE.
- ◇ = PRODUCTION INTERVAL.
- SL = SURFACE LOCATION.
- BPI = BEGINNING PRODUCTION INTERVAL.
- EPI = ENDING PRODUCTION INTERVAL.
- TBH = TARGET BOTTOM HOLE.

LINE	DIRECTION	LENGTH
L1	N04°02'10"E	1265.72'
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L4	N89°41'29"W	135.00'
L5	N05°30'09"E	916.95'
L6	N89°41'29"W	135.00'

LINE	DIRECTION	LENGTH
L7	N08°31'23"E	876.21'
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LINE	DIRECTION	LENGTH
L13	N84°59'12"E	93.83'
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L15	S18°26'11"E	265.94'
L16	N89°41'29"W	135.00'
L17	S12°06'17"E	408.39'
L18	N89°41'29"W	135.00'



R R  
66 65  
W W

**NOTES:**

REV: 1 06-20-18 CIVIE (PAD CHANGES)

**ConocoPhillips Company**  
 EASTERN HILLS #4-65 17-18 2DH, 3H D,  
 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO

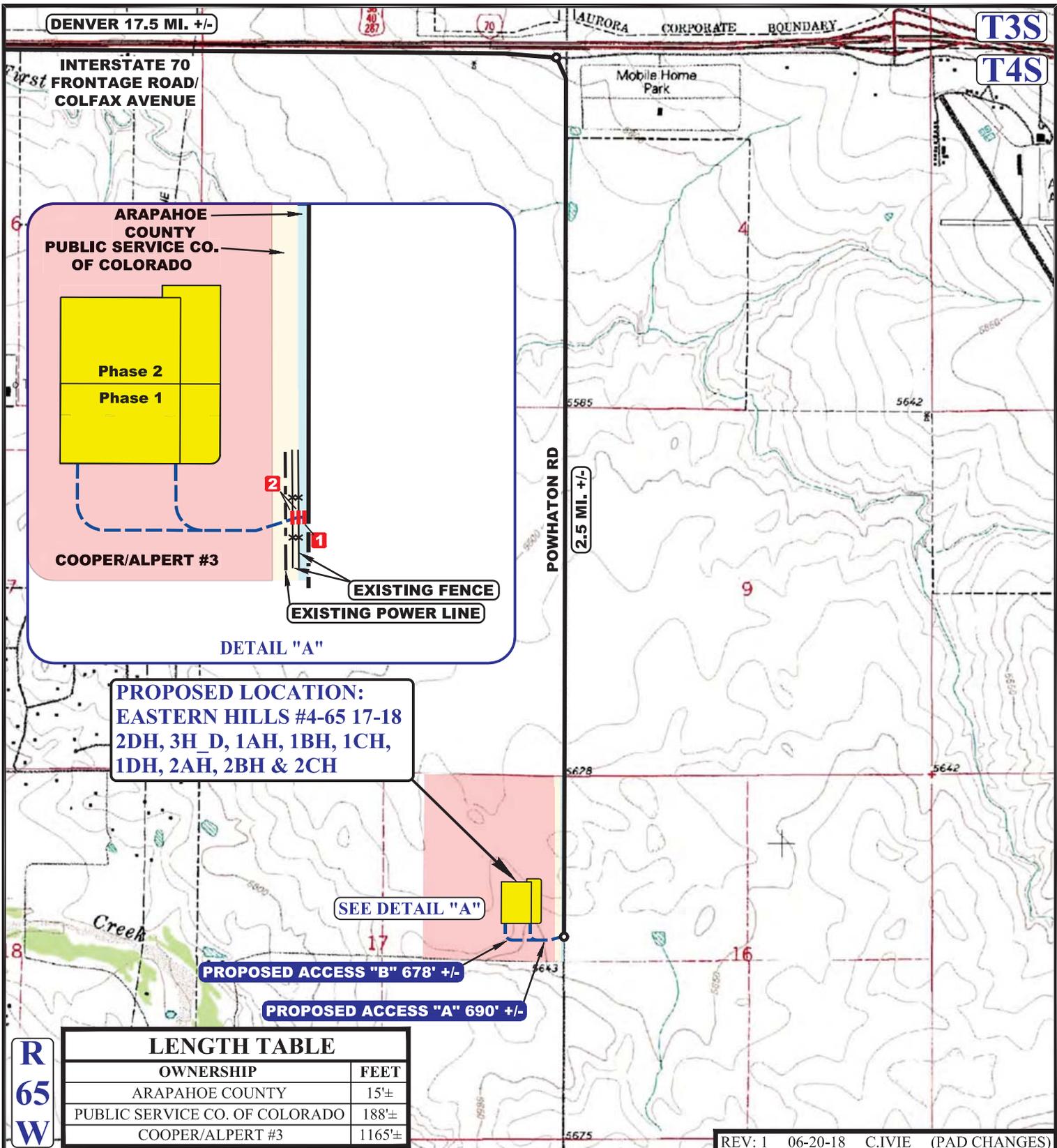
**UJINTAH**  
 ENGINEERING & LAND SURVEYING  
**UELS, LLC**  
 Corporate Office \* 85 South 200 East  
 Vernal, UT 84078 \* (435) 789-1017

SURVEYED BY	MATTHEW MILLER, G.W.	04-20-18	SCALE
DRAWN BY	CIVIE	05-07-18	1" = 1000'
<b>MULTI-WELL PLAN</b>			<b>FIGURE #4</b>

**ConocoPhillips Company**  
 EASTERN HILLS #4-65 17-18 2DH, 3H\_D, 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO  
 DATE: 02-16-18 C.IVIE

DISTANCES FROM WELLHEAD																
WELL NAME	BUILDING		BUILDING UNIT		HIGH OCCU. BUILDING		D.O.A.A.		PUBLIC ROAD		ABOVE GROUND UTILITY		RAILROAD		PROPERTY LINE	
	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH
#4-65 17-18 1AH	N21°W	2023'	N21°W	2023'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 1BH	N21°W	2046'	N21°W	2046'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 1CH	N21°W	2069'	N21°W	2069'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 1DH	N20°W	2093'	N20°W	2093'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 2AH	N20°W	2116'	N20°W	2116'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 2BH	N20°W	2140'	N20°W	2140'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 2CH	N20°W	2163'	N20°W	2163'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 2DH	N18°W	2324'	N18°W	2324'	OVER 1 MILE		OVER 1 MILE		EAST	685'	EAST	614'	OVER 1 MILE		EAST	490'
#4-65 17-18 3H_D	N17°W	2312'	N17°W	2312'	OVER 1 MILE		OVER 1 MILE		EAST	725'	EAST	654'	OVER 1 MILE		EAST	530'

PHASE 2 DISTANCES FROM PRODUCTION EQUIPMENT																
PRODUCTION AREA	BUILDING FROM GENERATOR		BUILDING UNIT FROM GENERATOR		HIGH OCCU. BUILDING		D.O.A.A.		PUBLIC ROAD FROM FLARE		ABOVE GROUND UTILITY FROM FLARE		RAILROAD		PROPERTY LINE FROM FLARE	
	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH	DIRECTION	LENGTH
PRODUCTION EQUIPMENT	N26°W	2305'	N26°W	2305'	OVER 1 MILE		OVER 1 MILE		EAST	324'	EAST	252'	OVER 1 MILE		EAST	129'



DENVER 17.5 MI. +/-

AURORA CORPORATE BOUNDARY

T3S

T4S

INTERSTATE 70  
FRONTAGE ROAD/  
COLFAX AVENUE

Mobile Home Park

ARAPAHOE COUNTY  
PUBLIC SERVICE CO.  
OF COLORADO

Phase 2  
Phase 1

COOPER/ALPERT #3

DETAIL "A"

EXISTING FENCE

EXISTING POWER LINE

PROPOSED LOCATION:  
EASTERN HILLS #4-65 17-18  
2DH, 3H\_D, 1AH, 1BH, 1CH,  
1DH, 2AH, 2BH & 2CH

SEE DETAIL "A"

PROPOSED ACCESS "B" 678' +/-

PROPOSED ACCESS "A" 690' +/-

R  
65  
W

**LENGTH TABLE**

OWNERSHIP	FEET
ARAPAHOE COUNTY	15'±
PUBLIC SERVICE CO. OF COLORADO	188'±
COOPER/ALPERT #3	1165'±

REV: 1 06-20-18 C.IVIE (PAD CHANGES)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

**LEGEND:**

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING FENCE
- EXISTING POWER LINE
- 18" CMP REQUIRED
- CATTLE GUARD REQUIRED



**ConocoPhillips Company**

EASTERN HILLS #4-65 17-18 2DH, 3H\_D,  
1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
ARAPAHOE COUNTY, COLORADO

SURVEYED BY	M.M., G.W.	04-20-18	SCALE
DRAWN BY	J.L.G.	04-25-18	1 : 24,000
<b>ACCESS ROAD MAP</b>			<b>TOPO B</b>



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T4S

5628

SIDE DITCH

1,000' OFFSET

EDGE OF DISTURBANCE

Phase 2

Phase 1

L1  
L2

PROPOSED LOCATION:  
EASTERN HILLS #4-65 17-18  
2DH, 3H\_D, 1AH, 1BH, 1CH,  
1DH, 2AH, 2BH & 2CH

5643

R  
65  
W

REV: 1 06-20-18 C.IVIE (PAD CHANGES)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	EAST	207'
L2	EAST	250'

**LEGEND:**

-  EXISTING WATER
-  1000' OFFSET BOUNDARY
-  EDGE OF DISTURBANCE



**ConocoPhillips Company**

EASTERN HILLS #4-65 17-18 2DH, 3H\_D,  
1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
ARAPAHOE COUNTY, COLORADO

SURVEYED BY	M.M., G.W.	04-20-18	SCALE
DRAWN BY	J.L.G.	04-25-18	1 : 6,000
<b>HYDROLOGY MAP</b>			<b>TOPO W</b>



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PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: EASTERLY

**LEGEND:**



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**ConocoPhillips Company**

**EASTERN HILLS #4-65 17-18 2DH, 3H D,  
 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO**

<b>SURVEYED BY</b>	M.M., G.W.	04-20-18	
<b>DRAWN BY</b>	J.L.G.	04-25-18	
<b>REFERENCE AREA PHOTOS</b>			<b>REF 1</b>



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF REFERENCE AREA

CAMERA ANGLE: WESTERLY

**LEGEND:**



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**ConocoPhillips Company**

**EASTERN HILLS #4-65 17-18 2DH, 3H D,  
 1AH, 1BH, 1CH, 1DH, 2AH, 2BH & 2CH  
 SE 1/4 NE 1/4, SECTION 17, T4S, R65W, 6th P.M.  
 ARAPAHOE COUNTY, COLORADO**

<b>SURVEYED BY</b>	M.M., G.W.	04-20-18	
<b>DRAWN BY</b>	J.L.G.	04-25-18	
<b>REFERENCE AREA PHOTOS</b>			<b>REF 2</b>