

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

|   |                  |                    |  |                |  |   |                                    |                 |              |               |
|---|------------------|--------------------|--|----------------|--|---|------------------------------------|-----------------|--------------|---------------|
| <b>APPLICATION FOR PERMIT TO DRILL</b>  |                  |                    |  |                |  | <b>1. WELL NAME and NUMBER</b><br>North Duck Creek 365-34   |                                    |                 |              |               |
| <b>2. TYPE OF WORK</b><br>DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> |                  |                    |  |                |  | <b>3. FIELD OR WILDCAT</b><br>NATURAL BUTTES  |                                    |                 |              |               |
| <b>4. TYPE OF WELL</b><br>Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>   |                  |                    |  |                |  | <b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>  |                                    |                 |              |               |
| <b>6. NAME OF OPERATOR</b><br>EOG Resources, Inc.   |                  |                    |  |                |  | <b>7. OPERATOR PHONE</b><br>435 781-9111  |                                    |                 |              |               |
| <b>8. ADDRESS OF OPERATOR</b><br>600 17th Street, Suite 1000 N, Denver, CO, 80202   |                  |                    |  |                |  | <b>9. OPERATOR E-MAIL</b><br>kaylene_gardner@eogresources.com   |                                    |                 |              |               |
| <b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b><br>UTU9613  |                  |                    | <b>11. MINERAL OWNERSHIP</b><br>FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>    |                |  | <b>12. SURFACE OWNERSHIP</b><br>FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> |                                    |                 |              |               |
| <b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>  |                  |                    |  |                |  | <b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>  |                                    |                 |              |               |
| <b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>   |                  |                    |  |                |  | <b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>   |                                    |                 |              |               |
| <b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b><br>UTE INDIAN TRIBE   |                  |                    | <b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b><br>YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> |                |  | <b>19. SLANT</b><br>VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>                               |                                    |                 |              |               |
| <b>20. LOCATION OF WELL</b>   |                  | <b>FOOTAGES</b>    |  | <b>QTR-QTR</b> | <b>SECTION</b>   | <b>TOWNSHIP</b>   | <b>RANGE</b>                       | <b>MERIDIAN</b> |              |               |
| LOCATION AT SURFACE   |                  | 504 FNL 642 FEL    |  | NENE           | 34   | 8.0 S   | 21.0 E                             | S               |              |               |
| Top of Uppermost Producing Zone   |                  | 504 FNL 642 FEL    |  | NENE           | 34   | 8.0 S   | 21.0 E                             | S               |              |               |
| At Total Depth  |                  | 504 FNL 642 FEL    |  | NENE           | 34   | 8.0 S   | 21.0 E                             | S               |              |               |
| <b>21. COUNTY</b><br>UINTAH   |                  |                    | <b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b><br>504  |                |  | <b>23. NUMBER OF ACRES IN DRILLING UNIT</b><br>1920   |                                    |                 |              |               |
|   |                  |                    | <b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b><br>1300   |                |  | <b>26. PROPOSED DEPTH</b><br>MD: 11050 TVD: 11050   |                                    |                 |              |               |
| <b>27. ELEVATION - GROUND LEVEL</b><br>4784   |                  |                    | <b>28. BOND NUMBER</b><br>NM2308   |                |  | <b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b><br>Water Right # 49-225 (A31368)   |                                    |                 |              |               |
| <b>Hole, Casing, and Cement Information</b>   |                  |                    |  |                |  |   |                                    |                 |              |               |
| <b>String</b>   | <b>Hole Size</b> | <b>Casing Size</b> | <b>Length</b>  | <b>Weight</b>  | <b>Grade &amp; Thread</b>  | <b>Max Mud Wt.</b>  | <b>Cement</b>                      | <b>Sacks</b>    | <b>Yield</b> | <b>Weight</b> |
| <b>Surf</b>   | 12.25            | 9.625              | 0 - 3000   | 36.0           | J-55 ST&C  | 0.0   | Type III                           | 195             | 4.1          | 10.5          |
|   |                  |                    |  |                |  |   | Type V                             | 135             | 1.18         | 15.6          |
| <b>Prod</b>   | 7.875            | 4.5                | 0 - 11050  | 11.6           | P-110 LT&C   | 10.5  | Halliburton Premium , Type Unknown | 225             | 1.61         | 12.5          |
|   |                  |                    |  |                |  |   | 50/50 Poz                          | 240             | 1.47         | 13.5          |
| <b>ATTACHMENTS</b>  |                  |                    |  |                |  |   |                                    |                 |              |               |
| <b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>   |                  |                    |  |                |  |   |                                    |                 |              |               |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  |                  |                    |  |                | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                 |   |                                    |                 |              |               |
| <input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)  |                  |                    |  |                | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |   |                                    |                 |              |               |
| <input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)   |                  |                    |  |                | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP                      |   |                                    |                 |              |               |
| <b>NAME</b> Kaylene Gardner   |                  |                    | <b>TITLE</b> Regulatory Administrator  |                |  | <b>PHONE</b> 435 781-9111   |                                    |                 |              |               |
| <b>SIGNATURE</b>  |                  |                    | <b>DATE</b> 11/04/2011   |                |  | <b>EMAIL</b> kaylene_gardner@eogresources.com   |                                    |                 |              |               |
| <b>API NUMBER ASSIGNED</b><br>43047521800000  |                  |                    | <b>APPROVAL</b>  |                |  | <br>Permit Manager  |                                    |                 |              |               |

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

| <b>FORMATION</b>       | <b>TVD-RKB (ft)</b> | <b>Objective</b> | <b>Lithology</b> |     |
|------------------------|---------------------|------------------|------------------|-----|
| Green River            | 2,178               |                  | Shale            |     |
| Birdsnest Zone         | 2,450               |                  | Dolomite         |     |
| Mahogany Oil Shale Bed | 3,065               |                  | Shale            |     |
| Wasatch                | 5,590               | Primary          | Sandstone        | Gas |
| Chapita Wells          | 6,238               | Primary          | Sandstone        | Gas |
| Buck Canyon            | 6,919               | Primary          | Sandstone        | Gas |
| North Horn             | 7,544               | Primary          | Sandstone        | Gas |
| KMV Price River        | 8,879               | Primary          | Sandstone        | Gas |
| KMV Price River Middle | 9,556               | Primary          | Sandstone        | Gas |
| KMV Price River Lower  | 10,358              | Primary          | Sandstone        | Gas |
| Sego                   | 10,845              | Secondary        | Sandstone        | Gas |
| <b>TD</b>              | <b>11,050</b>       |                  |                  |     |

**Estimated TD: 11,050' or 200'± below TD****Anticipated BHP: 6,033 psi**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,178 ft ±.
2. Cement to be installed to surface of the well isolating all zones.

**3. PRESSURE CONTROL EQUIPMENT:**Intermediate/Production Hole – 5000 psi  
BOP schematic diagrams attached.**4. CASING PROGRAM:****All casing will be new or inspected.****Note:**

- **12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" casing to that depth as detailed below. Drilled depth may be shallower or deeper than the 3000' shown below, depending on the actual depth of the loss zone.**
- **Below the 9 5/8" surface casing EOG will drill an 8.75" hole to ± 7500'. At this point, EOG will determine whether wellbore conditions encountered (sloughing/swelling shales, key seat development, and lost circulation) will warrant running a 7" intermediate casing string to this depth in order to reach the proposed TD for the well. Determination to run intermediate casing will be made by the EOG Resources Drilling Engineer, Drilling Superintendent, and Drilling Manager. In the event that intermediate casing is run, all regulatory agencies will be properly notified. If intermediate casing is run, EOG Resources will properly cement the 7" casing, then drill the remaining production hole below it to TD with a 6.25" bit and run and cement 4 1/2" production casing at TD. If intermediate casing is not needed, EOG will remove the 8.75" bit at ± 7500' and drill the remainder of the production hole with a 7.875" bit to TD, then run and cement 4 1/2" production casing at TD. Casing string and cementing details for these options are shown in the Casing Program and Cement Program sections below.**

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****4. CASING PROGRAM (cont'd):****If Intermediate Casing string is required, casing program will be as follows:**

| <u>Casing</u> | <u>Hole Size</u> | <u>Length</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Thread</u> | <u>Collapse Rating</u> | <u>Burst Rating</u> | <u>Tensile Rating</u> |
|---------------|------------------|---------------|-------------|---------------|--------------|---------------|------------------------|---------------------|-----------------------|
| Conductor     | 20"              | 0 – 60'       | 14"         | 48.0#         | H-40         | STC           | 770 psi                | 1,730 psi           | 322,000#              |
| Surface       | 12.25"           | 0 – 3000' KB± | 9.625"      | 36.0#         | J-55         | STC           | 2,020 psi              | 3,520 psi           | 394,000#              |
| Intermediate  | 8.75"            | 0 - 7500' KB± | 7"          | 23.0#         | HC N-80      | LTC           | 5,650 psi              | 6,340 psi           | 485,000#              |
| Production    | 6.25"            | Surface – TD  | 4.5"        | 11.6#         | P-110        | LTC           | 7,560 psi              | 10,690 psi          | 279,000#              |
|               |                  |               |             |               |              |               |                        |                     |                       |

**If Intermediate Casing string is not run, casing program will be as follows:**

| <u>Casing</u> | <u>Hole Size</u> | <u>Length</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Thread</u> | <u>Collapse Rating</u> | <u>Burst Rating</u> | <u>Tensile Rating</u> |
|---------------|------------------|---------------|-------------|---------------|--------------|---------------|------------------------|---------------------|-----------------------|
| Conductor     | 20"              | 0 – 60'       | 14"         | 48.0#         | H-40         | STC           | 770 psi                | 1,730 psi           | 322,000#              |
| Surface       | 12.25"           | 0 – 3000' KB± | 9.625"      | 36.0#         | J-55         | STC           | 2,020 psi              | 3,520 psi           | 394,000#              |
| Production    | 8.75" / 7.875"   | Surface – TD  | 4.5"        | 11.6#         | P-110        | LTC           | 7,560 psi              | 10,690 psi          | 279,000#              |
|               |                  |               |             |               |              |               |                        |                     |                       |

**5. FLOAT EQUIPMENT:****Surface Casing (0' - 3000'±)**

Guide Shoe

Insert Float Collar

Centralizers: 1 in middle of shoe joint, then top of every joint for next 7 joints. (8 total)

**Intermediate Casing (0' - 7500'±) (If Run)**

Float shoe, 1 joint of casing, float collar and balance of casing to surface. Conventional bow-spring centralizer to be placed 5' above shoe on joint #1 and on top of joints #2 & #3, then every 5<sup>th</sup> joint to 400' above the top of the Wasatch. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**Production Casing (0' - TD):**

Float shoe, 1 joint of casing, float collar and balance of casing to surface. 4-½", 11.6#, P-110 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every 3<sup>rd</sup> joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**DRILLING PLAN**

**NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**6. MUD PROGRAM:**

**Surface Hole (Surface - 3000'±):**

Air/Air mist/Aerated water\* (\*A standby water source will be available at all times to act as a kill medium when conducting air drilling operations)

or

A closed-loop system utilizing a gelled bentonite mud will be employed.  
LCM sweeps, additions, etc. will be used as necessary.

**Intermediate Hole (3000' - 7500'±):**

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed-loop mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition.

**Production Hole (7500'± - TD):**

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Defloculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum

**7. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 1  
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

**8. EVALUATION PROGRAM:**

**Cased-hole Logs:**

Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**Cement Bond / Casing Collar Locator and Pulsed Neutron**

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****9. CEMENT PROGRAM:****Surface Casing (Surface - 3000'±):**

**Lead:** Lead volume to be calculated to bring cement from 500' above casing shoe to surface. Lead cement will be:

**195 sx. HES VariCem (Type III) + 2% Cal-Seal (Thixotropic Additive) + 0.3% Versaset (Thixotropic Additive) + 2% Econolite (Light Weight Additive), mixed at 10.5 ppg, 4.10 cfps, 26.88 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement 500' above casing shoe. Tail cement will be:

**135 sx. HES HalCem (Type V) + 2% CaCl<sub>2</sub> (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water**

**Top Out:** As necessary with:

**HES HalCem (Type V) + 2% CaCl<sub>2</sub> (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water**

**Note:** The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess on the lead slurry and gauge hole + 100% excess on the tail slurry.

**Intermediate Casing (3000'± - 7500'±) (If Run)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at intermediate casing point and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

**HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)**

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **145 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **170 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **200 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **225 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

**220 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement from 7500'± to 400' above top of Wasatch Formation. Tail cement will be:

**240 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** Above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 50% excess on lead slurry, gauge hole + 70% excess on the tail slurry.

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****9. CEMENT PROGRAM (cont'd):****Production Casing (7500'± - TD) (With Intermediate Casing String Run)**

Slurry volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation inside the 7" X 4 1/2" casing annulus. Cement will be:

**710 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess in the open hole and 0% excess in the 7" X 4 1/2" casing annulus.

**Production Casing (3000'± - TD) (Without Intermediate Casing String)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

**HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)**

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **295 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **350 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **405 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **460 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

**450 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

**1035 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

**DRILLING PLAN**

**NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 3000'±):**

Lost circulation

**Intermediate / Production Hole (3000'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

**11. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**12. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

**13. Air Drilling Operations:**

1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head

**(Attachment: BOP Schematic Diagram)**

EOG RESOURCES, INC.

T8S, R21E, S.L.B.&M.

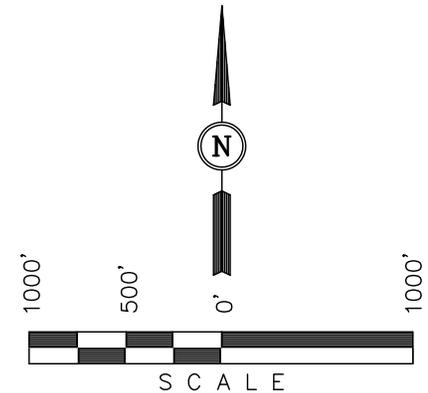
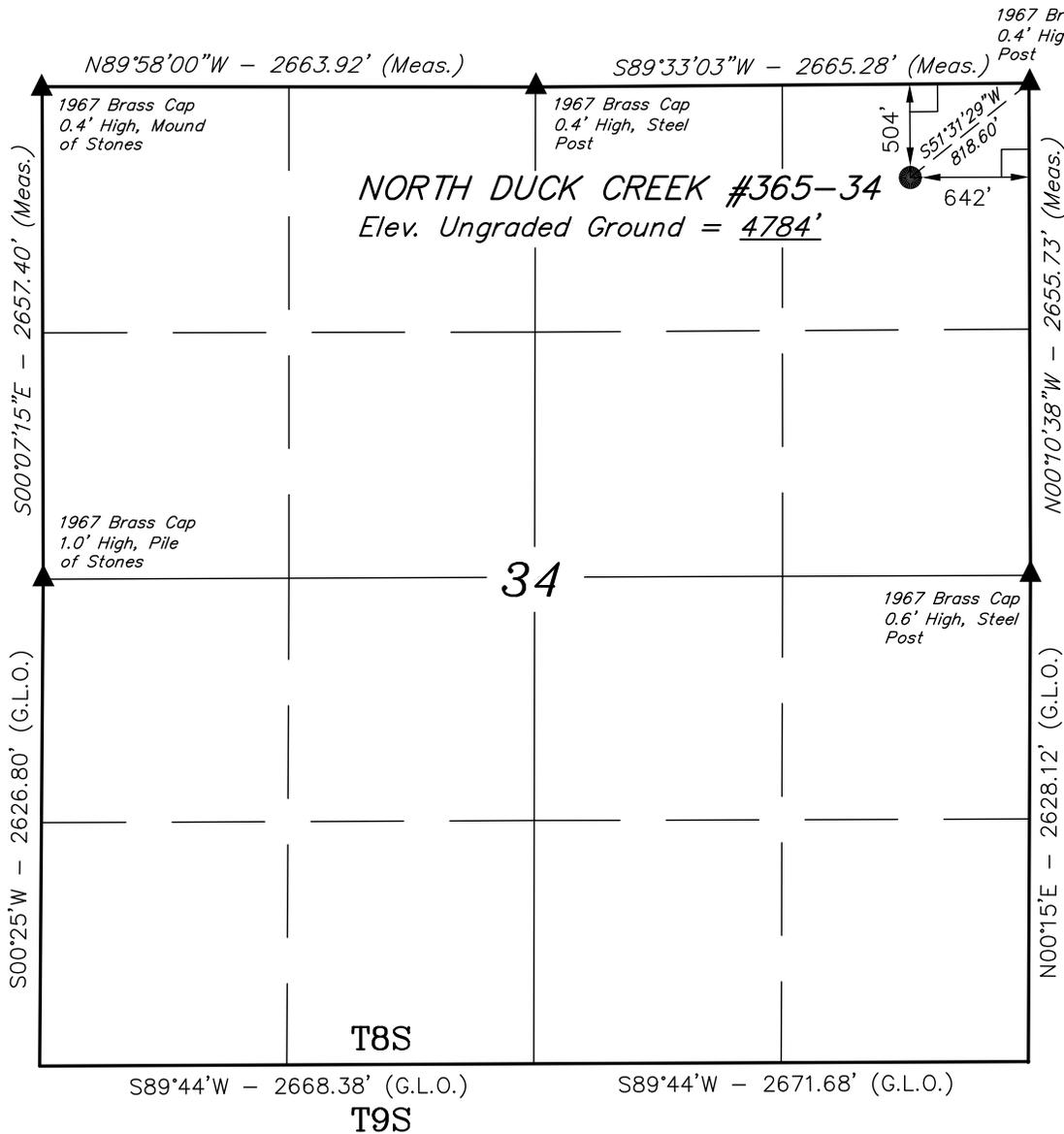
Well location, NORTH DUCK CREEK #365-34, located as shown in the NE 1/4 NE 1/4 of Section 34, T8S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD 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.

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

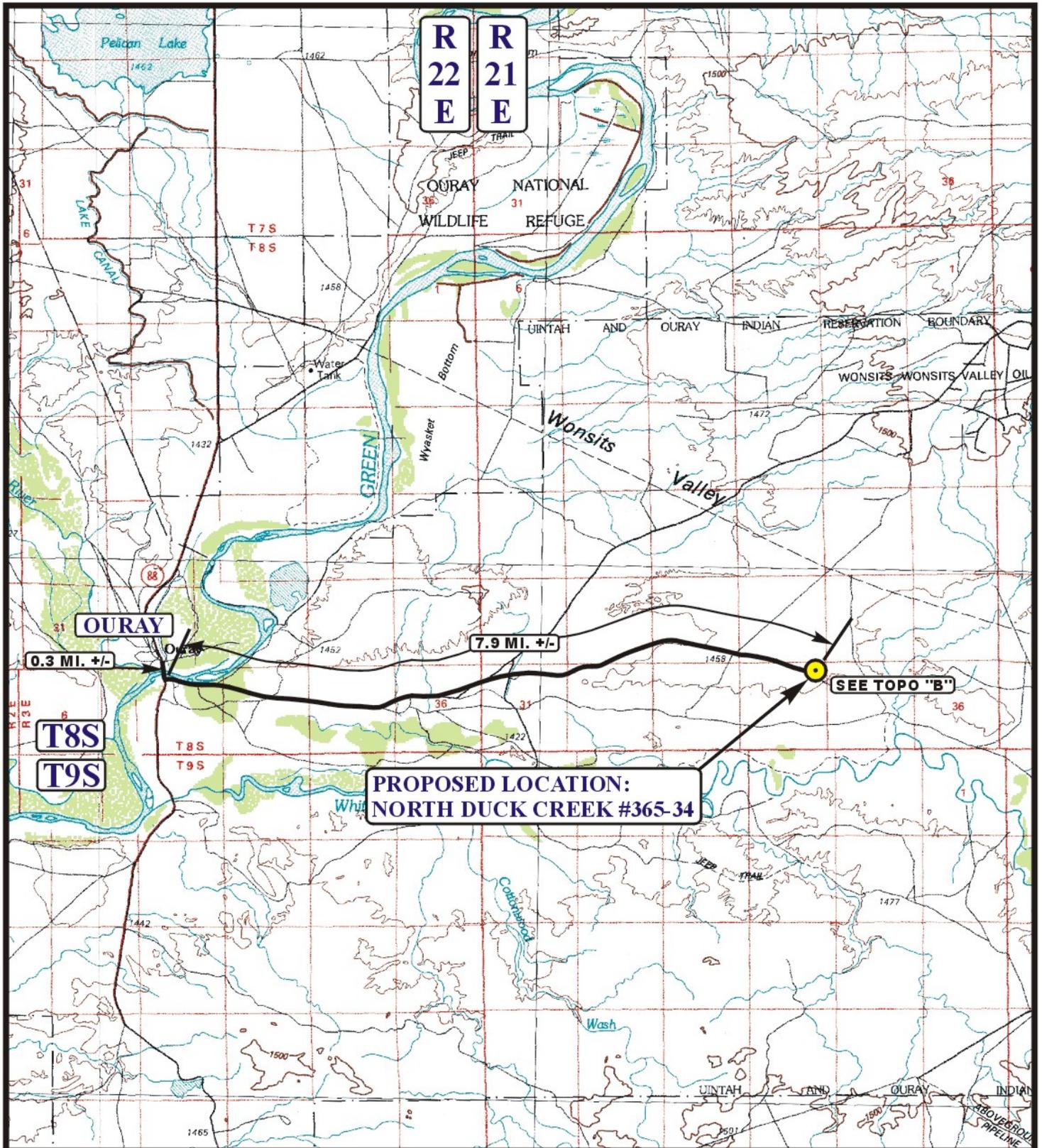
|                           |                             |                         |
|---------------------------|-----------------------------|-------------------------|
| SCALE<br>1" = 1000'       | DATE SURVEYED:<br>11-29-10  | DATE DRAWN:<br>12-04-10 |
| PARTY<br>G.S. T.H. D.R.B. | REFERENCES<br>G.L.O. PLAT   |                         |
| WEATHER<br>COLD           | FILE<br>EOG RESOURCES, INC. |                         |

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 40°05'07.85" (40.085514)  
 LONGITUDE = 109°31'57.25" (109.532569)  
 (NAD 27)  
 LATITUDE = 40°05'07.98" (40.085550)  
 LONGITUDE = 109°31'54.77" (109.531881)

RECEIVED: November 04, 2011



**PROPOSED LOCATION:  
NORTH DUCK CREEK #365-34**

**LEGEND:**

 PROPOSED LOCATION

**EOG RESOURCES, INC.**

**NORTH DUCK CREEK #365-34  
SECTION 34, T8S, R21E, S.L.B.&M.  
504' FNL 642' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

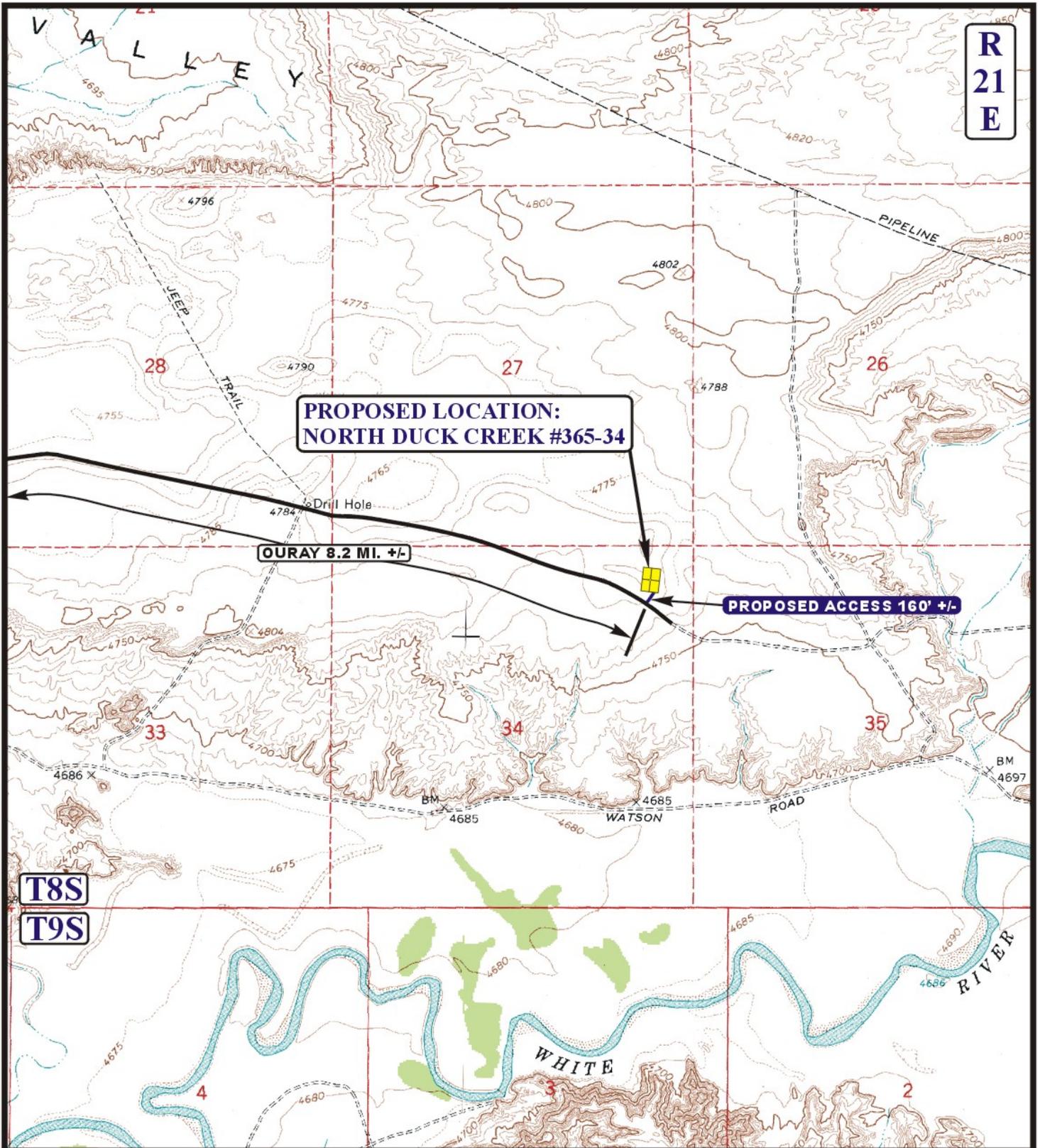


**TOPOGRAPHIC  
MAP**

**12 13 10**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



**EOG RESOURCES, INC.**

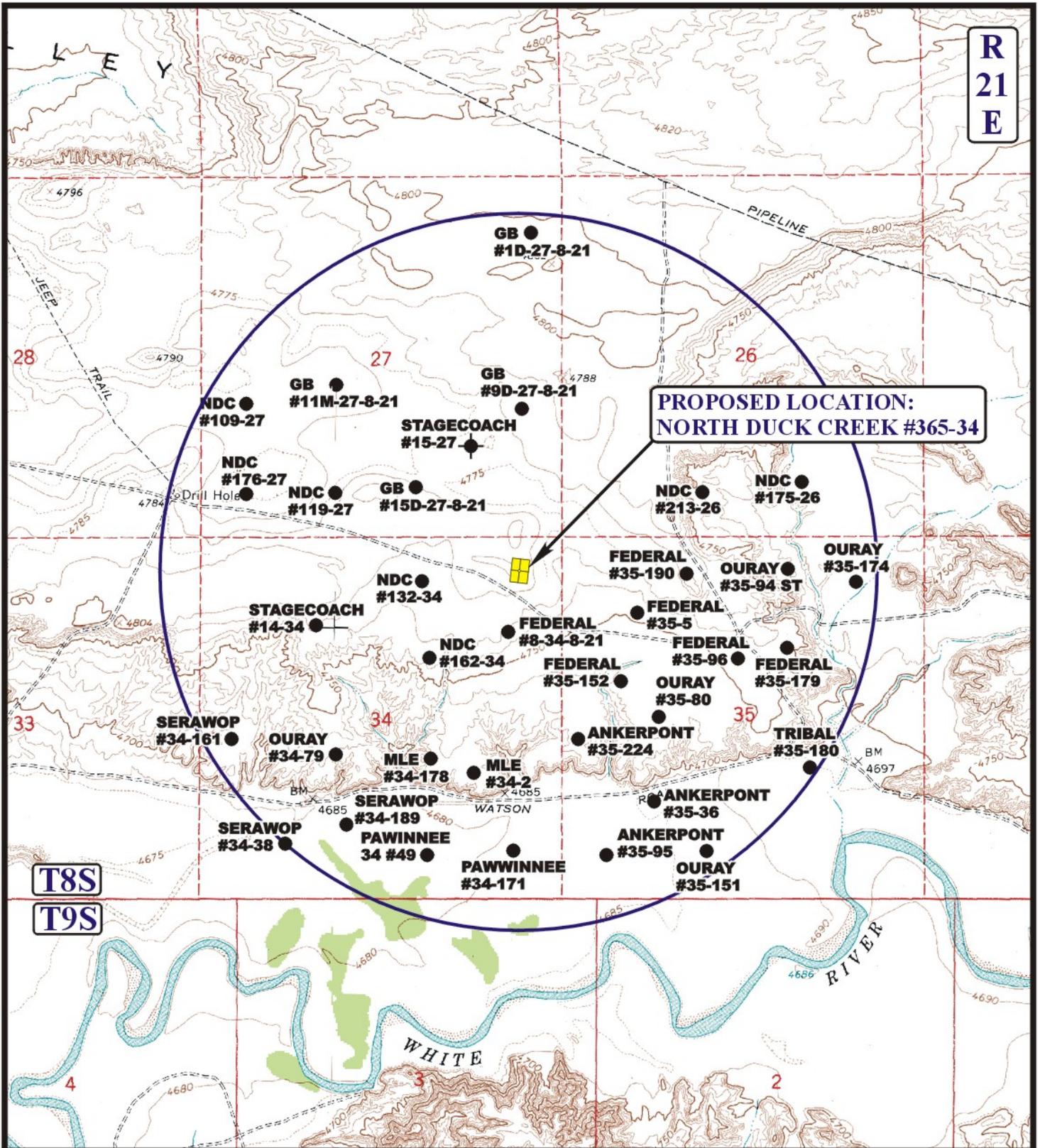
**NORTH DUCK CREEK #365-34**  
**SECTION 34, T8S, R21E, S.L.B.&M.**  
**504' FNL 642' FEL**



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **12 13 10**  
MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00





**R  
21  
E**

**PROPOSED LOCATION:  
NORTH DUCK CREEK #365-34**

**T8S  
T9S**

**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⊖ SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- ⊖ TEMPORARILY ABANDONED

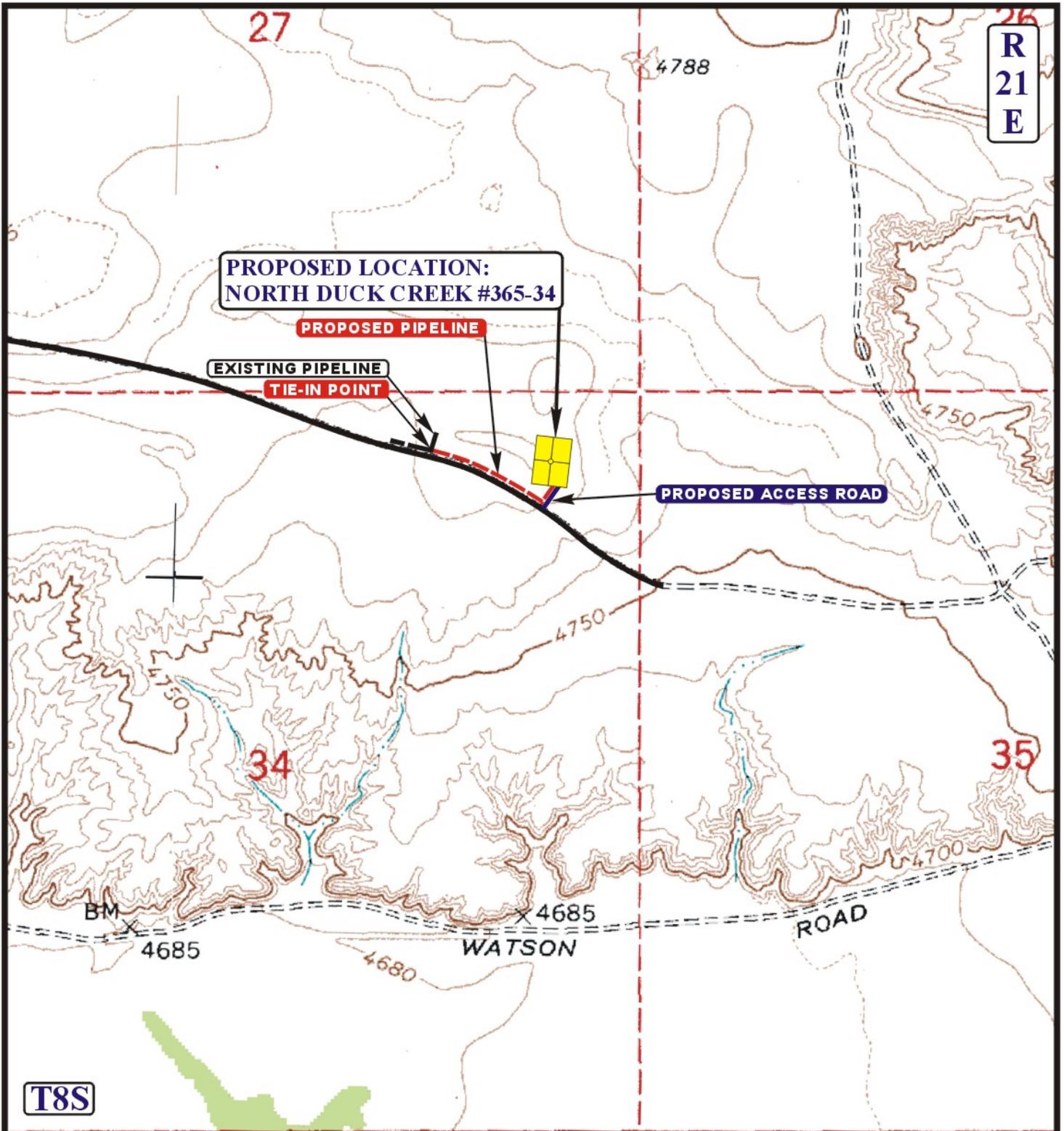
**EOG RESOURCES, INC.**

**NORTH DUCK CREEK #365-34  
SECTION 34, T8S, R21E, S.L.B.&M.  
504' FNL 642' FEL**

**U&L S** **Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **12 13 10**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00 **C TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,024' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**EOG RESOURCES, INC.**

**NORTH DUCK CREEK #365-34**  
**SECTION 34, T8S, R21E, S.L.B.&M.**  
**504' FNL 642' FEL**



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

|           |           |           |
|-----------|-----------|-----------|
| <b>12</b> | <b>13</b> | <b>10</b> |
| MONTH     | DAY       | YEAR      |

SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00

**D**  
**TOPO**

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

| <b>FORMATION</b>       | <b>TVD-RKB (ft)</b> | <b>Objective</b> | <b>Lithology</b> |     |
|------------------------|---------------------|------------------|------------------|-----|
| Green River            | 2,178               |                  | Shale            |     |
| Birdsnest Zone         | 2,450               |                  | Dolomite         |     |
| Mahogany Oil Shale Bed | 3,065               |                  | Shale            |     |
| Wasatch                | 5,590               | Primary          | Sandstone        | Gas |
| Chapita Wells          | 6,238               | Primary          | Sandstone        | Gas |
| Buck Canyon            | 6,919               | Primary          | Sandstone        | Gas |
| North Horn             | 7,544               | Primary          | Sandstone        | Gas |
| KMV Price River        | 8,879               | Primary          | Sandstone        | Gas |
| KMV Price River Middle | 9,556               | Primary          | Sandstone        | Gas |
| KMV Price River Lower  | 10,358              | Primary          | Sandstone        | Gas |
| Sego                   | 10,845              | Secondary        | Sandstone        | Gas |
| <b>TD</b>              | <b>11,050</b>       |                  |                  |     |

**Estimated TD: 11,050' or 200'± below TD****Anticipated BHP: 6,033 psi**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,178 ft ±.
2. Cement to be installed to surface of the well isolating all zones.

**3. PRESSURE CONTROL EQUIPMENT:**Intermediate/Production Hole – 5000 psi  
BOP schematic diagrams attached.**4. CASING PROGRAM:****All casing will be new or inspected.****Note:**

- **12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" casing to that depth as detailed below. Drilled depth may be shallower or deeper than the 3000' shown below, depending on the actual depth of the loss zone.**
- **Below the 9 5/8" surface casing EOG will drill an 8.75" hole to ± 7500'. At this point, EOG will determine whether wellbore conditions encountered (sloughing/swelling shales, key seat development, and lost circulation) will warrant running a 7" intermediate casing string to this depth in order to reach the proposed TD for the well. Determination to run intermediate casing will be made by the EOG Resources Drilling Engineer, Drilling Superintendent, and Drilling Manager. In the event that intermediate casing is run, all regulatory agencies will be properly notified. If intermediate casing is run, EOG Resources will properly cement the 7" casing, then drill the remaining production hole below it to TD with a 6.25" bit and run and cement 4 1/2" production casing at TD. If intermediate casing is not needed, EOG will remove the 8.75" bit at ± 7500' and drill the remainder of the production hole with a 7.875" bit to TD, then run and cement 4 1/2" production casing at TD. Casing string and cementing details for these options are shown in the Casing Program and Cement Program sections below.**

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****4. CASING PROGRAM (cont'd):****If Intermediate Casing string is required, casing program will be as follows:**

| <u>Casing</u> | <u>Hole Size</u> | <u>Length</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Thread</u> | <u>Collapse Rating</u> | <u>Burst Rating</u> | <u>Tensile Rating</u> |
|---------------|------------------|---------------|-------------|---------------|--------------|---------------|------------------------|---------------------|-----------------------|
| Conductor     | 20"              | 0 – 60'       | 14"         | 48.0#         | H-40         | STC           | 770 psi                | 1,730 psi           | 322,000#              |
| Surface       | 12.25"           | 0 – 3000' KB± | 9.625"      | 36.0#         | J-55         | STC           | 2,020 psi              | 3,520 psi           | 394,000#              |
| Intermediate  | 8.75"            | 0 - 7500' KB± | 7"          | 23.0#         | HC N-80      | LTC           | 5,650 psi              | 6,340 psi           | 485,000#              |
| Production    | 6.25"            | Surface – TD  | 4.5"        | 11.6#         | P-110        | LTC           | 7,560 psi              | 10,690 psi          | 279,000#              |
|               |                  |               |             |               |              |               |                        |                     |                       |

**If Intermediate Casing string is not run, casing program will be as follows:**

| <u>Casing</u> | <u>Hole Size</u> | <u>Length</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Thread</u> | <u>Collapse Rating</u> | <u>Burst Rating</u> | <u>Tensile Rating</u> |
|---------------|------------------|---------------|-------------|---------------|--------------|---------------|------------------------|---------------------|-----------------------|
| Conductor     | 20"              | 0 – 60'       | 14"         | 48.0#         | H-40         | STC           | 770 psi                | 1,730 psi           | 322,000#              |
| Surface       | 12.25"           | 0 – 3000' KB± | 9.625"      | 36.0#         | J-55         | STC           | 2,020 psi              | 3,520 psi           | 394,000#              |
| Production    | 8.75" / 7.875"   | Surface – TD  | 4.5"        | 11.6#         | P-110        | LTC           | 7,560 psi              | 10,690 psi          | 279,000#              |
|               |                  |               |             |               |              |               |                        |                     |                       |

**5. FLOAT EQUIPMENT:****Surface Casing (0' - 3000'±)**

Guide Shoe

Insert Float Collar

Centralizers: 1 in middle of shoe joint, then top of every joint for next 7 joints. (8 total)

**Intermediate Casing (0' - 7500'±) (If Run)**

Float shoe, 1 joint of casing, float collar and balance of casing to surface. Conventional bow-spring centralizer to be placed 5' above shoe on joint #1 and on top of joints #2 & #3, then every 5<sup>th</sup> joint to 400' above the top of the Wasatch. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**Production Casing (0' - TD):**

Float shoe, 1 joint of casing, float collar and balance of casing to surface. 4-½", 11.6#, P-110 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every 3<sup>rd</sup> joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**DRILLING PLAN**

**NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**6. MUD PROGRAM:**

**Surface Hole (Surface - 3000'±):**

Air/Air mist/Aerated water\* (\*A standby water source will be available at all times to act as a kill medium when conducting air drilling operations)

or

A closed-loop system utilizing a gelled bentonite mud will be employed.  
LCM sweeps, additions, etc. will be used as necessary.

**Intermediate Hole (3000' - 7500'±):**

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed-loop mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition.

**Production Hole (7500'± - TD):**

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Defloculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum

**7. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 1  
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
- EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
- EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
- EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

**8. EVALUATION PROGRAM:**

**Cased-hole Logs:**

Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**Cement Bond / Casing Collar Locator and Pulsed Neutron**

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****9. CEMENT PROGRAM:****Surface Casing (Surface - 3000'±):**

**Lead:** Lead volume to be calculated to bring cement from 500' above casing shoe to surface. Lead cement will be:

**195 sx. HES VariCem (Type III) + 2% Cal-Seal (Thixotropic Additive) + 0.3% Versaset (Thixotropic Additive) + 2% Econolite (Light Weight Additive), mixed at 10.5 ppg, 4.10 cfps, 26.88 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement 500' above casing shoe. Tail cement will be:

**135 sx. HES HalCem (Type V) + 2% CaCl<sub>2</sub> (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water**

**Top Out:** As necessary with:

**HES HalCem (Type V) + 2% CaCl<sub>2</sub> (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water**

**Note:** The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess on the lead slurry and gauge hole + 100% excess on the tail slurry.

**Intermediate Casing (3000'± - 7500'±) (If Run)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at intermediate casing point and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

**HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)**

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **145 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **170 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **200 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **225 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

**220 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement from 7500'± to 400' above top of Wasatch Formation. Tail cement will be:

**240 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** Above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 50% excess on lead slurry, gauge hole + 70% excess on the tail slurry.

**DRILLING PLAN****NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****9. CEMENT PROGRAM (cont'd):****Production Casing (7500'± - TD) (With Intermediate Casing String Run)**

Slurry volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation inside the 7" X 4 1/2" casing annulus. Cement will be:

**710 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess in the open hole and 0% excess in the 7" X 4 1/2" casing annulus.

**Production Casing (3000'± - TD) (Without Intermediate Casing String)**

**Lead:** Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

**HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)**

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **295 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **350 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **405 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **460 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

**450 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

**1035 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water**

**Note:** The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

**DRILLING PLAN**

**NORTH DUCK CREEK 365-34**  
**NE/NE, SEC. 34, T8S, R21E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 3000'±):**

Lost circulation

**Intermediate / Production Hole (3000'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

**11. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**12. HAZARDOUS CHEMICALS:**

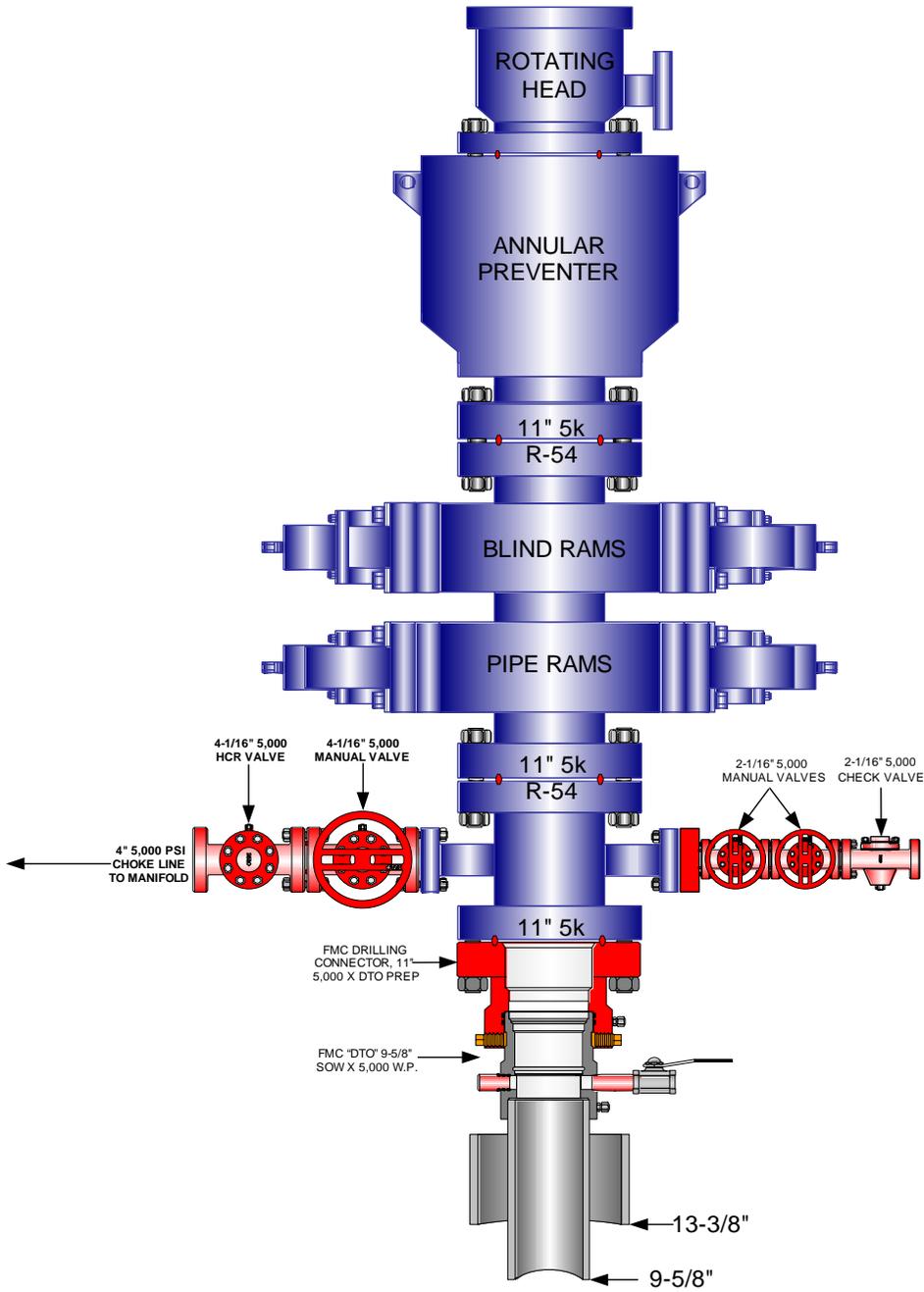
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

**13. Air Drilling Operations:**

1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head

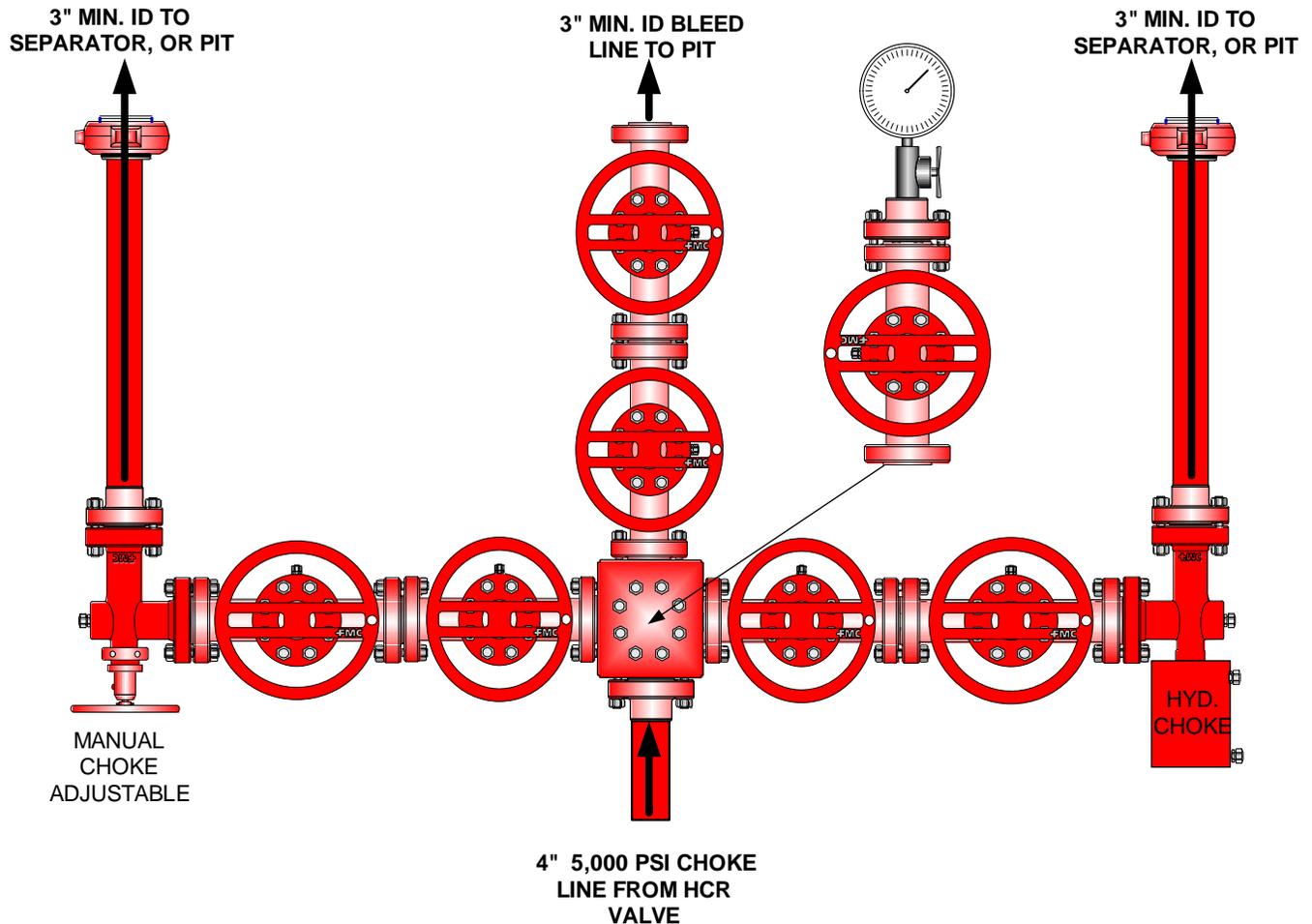
**(Attachment: BOP Schematic Diagram)**

**EOG RESOURCES 11" 5,000 PSI W.P. BOP CONFIGURATION**



**EOG RESOURCES CHOKE MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

PAGE 2 OF 2



**Testing Procedure:**

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.  
Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength,  
**whichever is greater.**
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

**RECEIVED: November 04, 2011**

**EOG RESOURCES, INC.**  
**NORTH DUCK CREEK #365-34**  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 34, T8S, R21E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



**U  
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S** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
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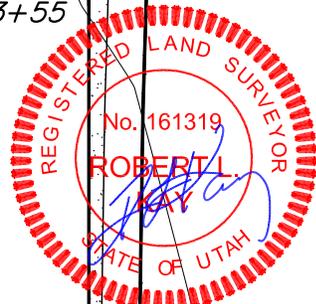
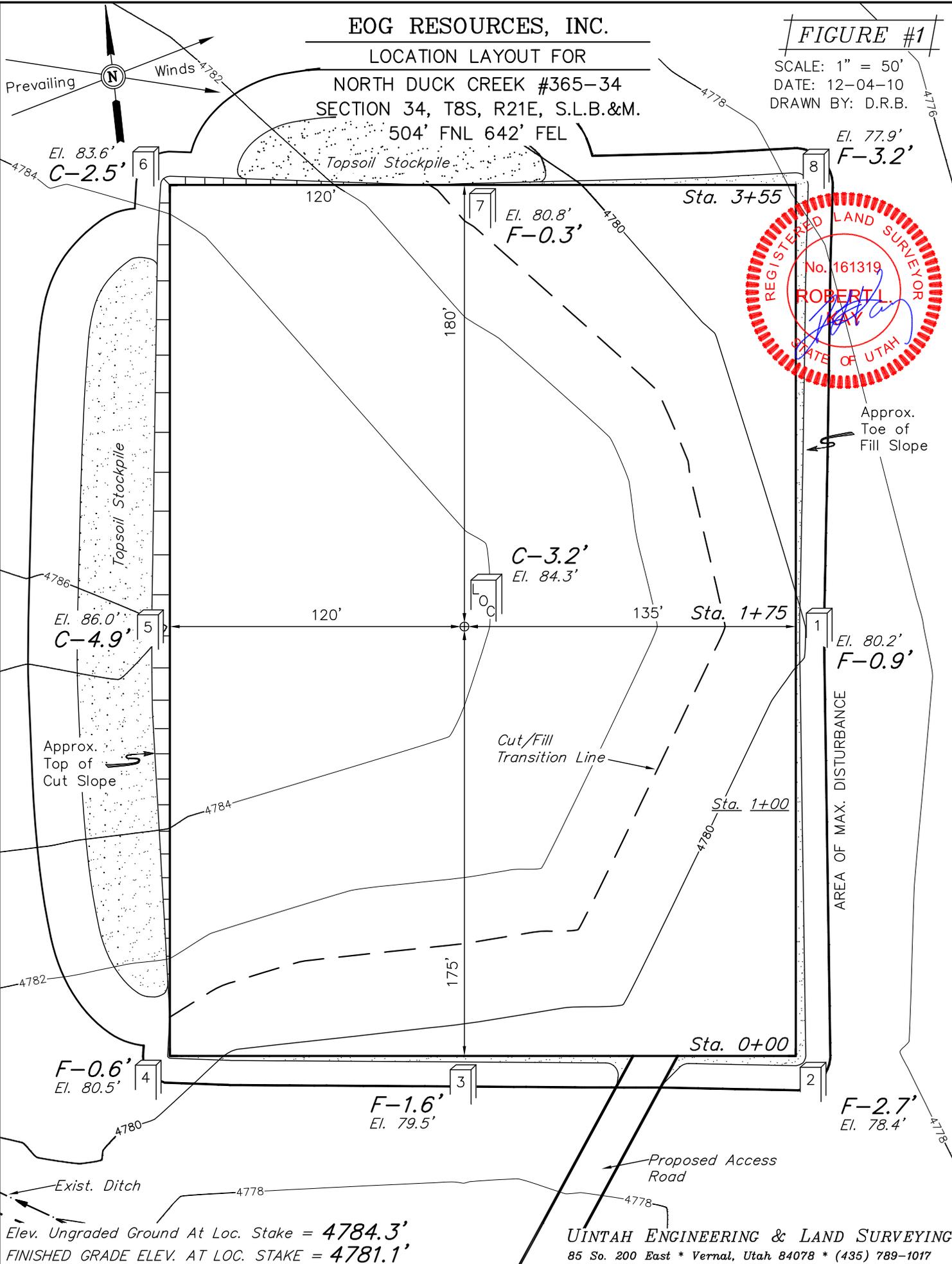
|                        |                |           |                   |              |
|------------------------|----------------|-----------|-------------------|--------------|
| <b>LOCATION PHOTOS</b> | <b>12</b>      | <b>13</b> | <b>10</b>         | <b>PHOTO</b> |
|                        | MONTH          | DAY       | YEAR              |              |
| TAKEN BY: G.S.         | DRAWN BY: Z.L. |           | REVISED: 00-00-00 |              |

EOG RESOURCES, INC.

LOCATION LAYOUT FOR  
NORTH DUCK CREEK #365-34  
SECTION 34, T8S, R21E, S.L.B.&M.  
504' FNL 642' FEL

FIGURE #1

SCALE: 1" = 50'  
DATE: 12-04-10  
DRAWN BY: D.R.B.



Elev. Ungraded Ground At Loc. Stake = 4784.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 4781.1'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: November 04, 2011

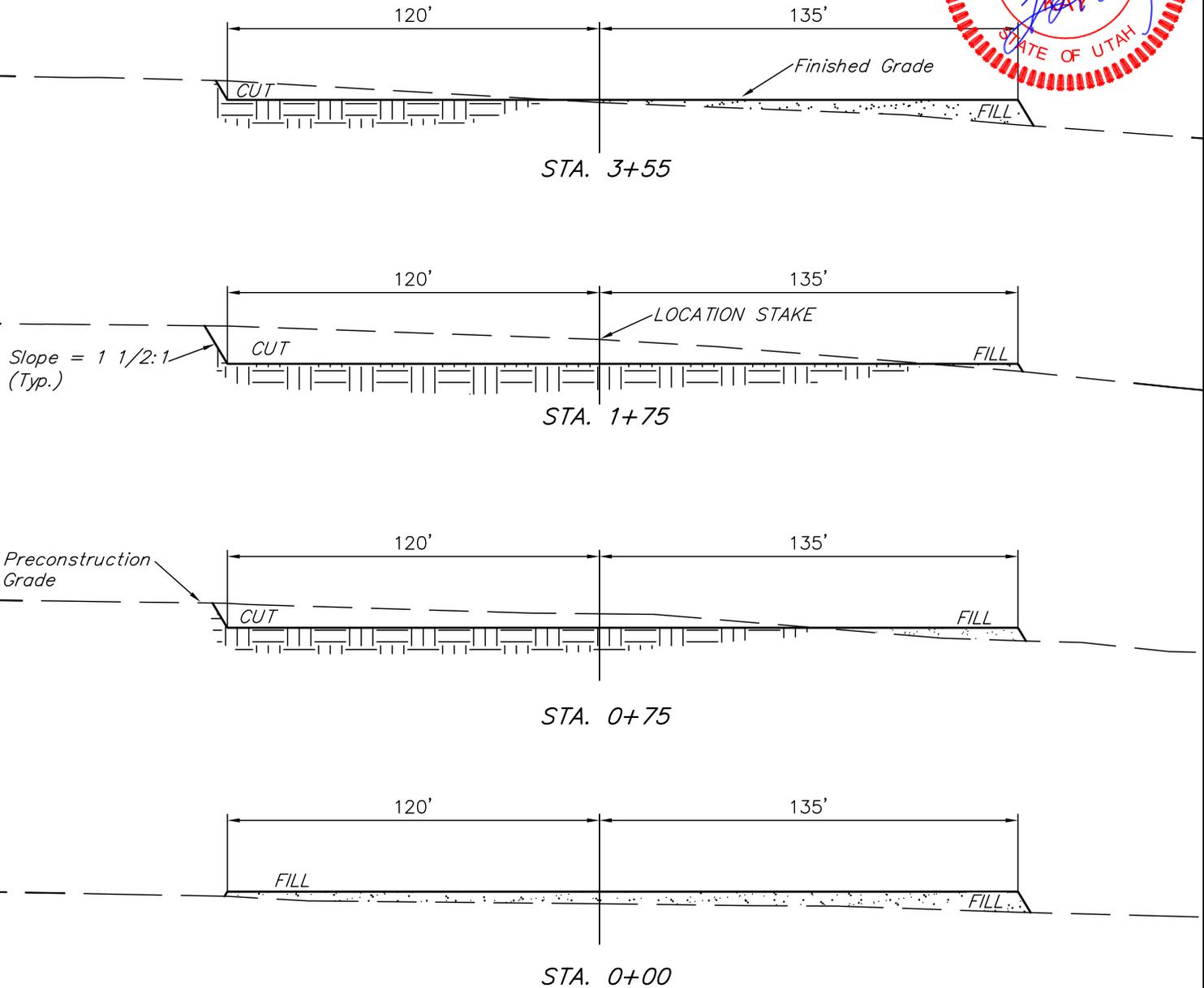
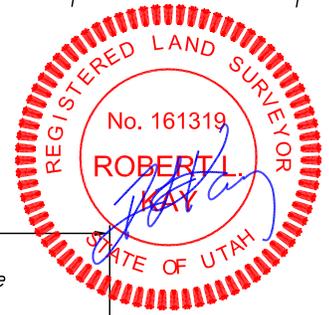
**EOG RESOURCES, INC.**

TYPICAL CROSS SECTIONS FOR  
 NORTH DUCK CREEK #365-34  
 SECTION 34, T8S, R21E, S.L.B.&M.  
 504' FNL 642' FEL

FIGURE #2

1" = 20'  
 X-Section  
 Scale  
 1" = 50'

DATE: 12-04-10  
 DRAWN BY: D.R.B.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.345 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.088 ACRES  
 PIPELINE DISTURBANCE = ± 0.674 ACRES  
 TOTAL = ± 4.107 ACRES

\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 3,560 Cu. Yds.  
 Remaining Location = 2,960 Cu. Yds.  
**TOTAL CUT = 6,520 CU.YDS.**  
**FILL = 2,960 CU.YDS.**

EXCESS MATERIAL = 3,560 Cu. Yds.  
 Topsoil = 3,560 Cu. Yds.  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

EOG RESOURCES, INC.

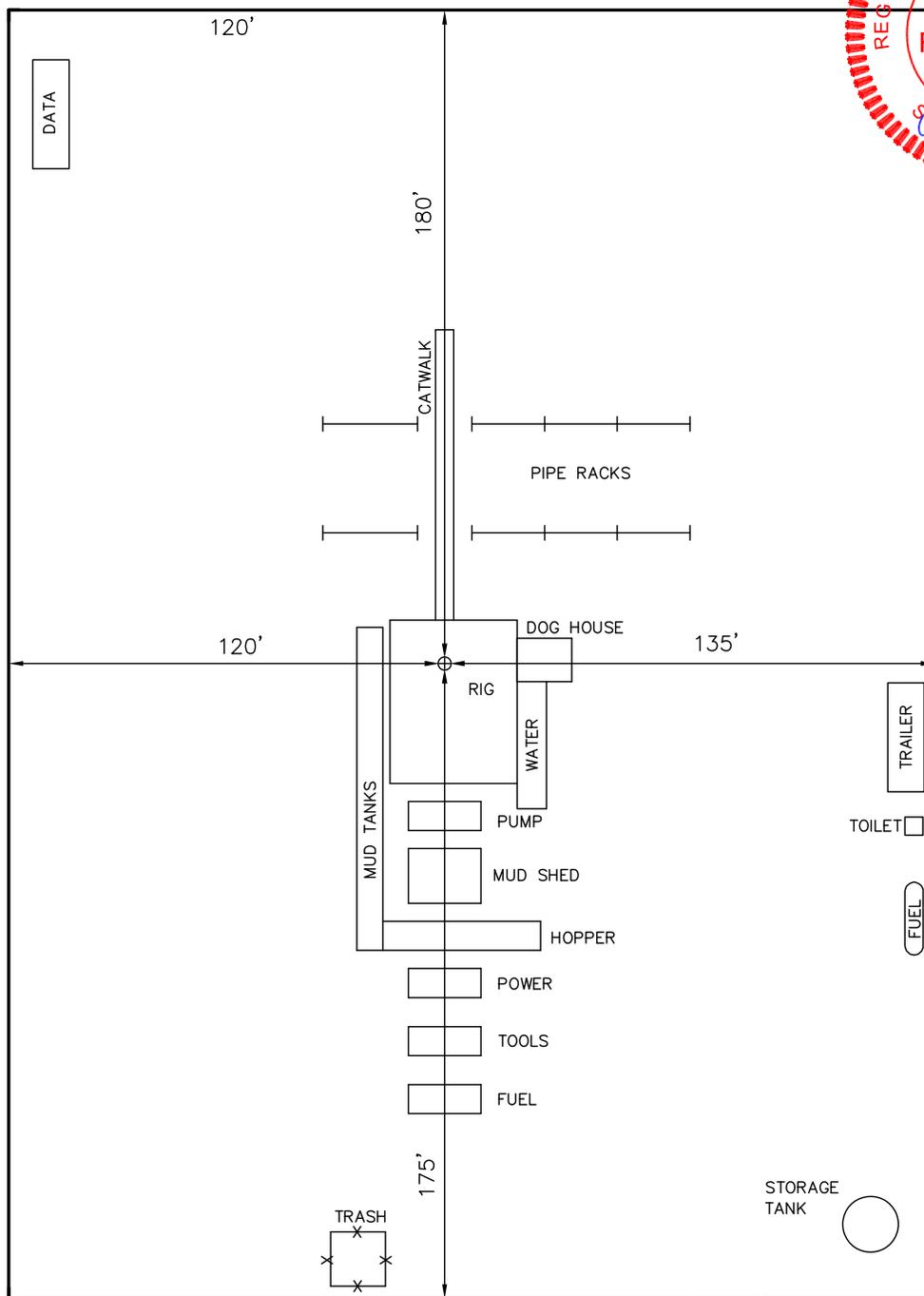
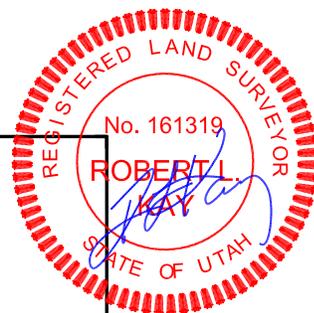
TYPICAL RIG LAYOUT FOR

NORTH DUCK CREEK #365-34  
SECTION 34, T8S, R21E, S.L.B.&M.  
504' FNL 642' FEL

FIGURE #3



SCALE: 1" = 50'  
DATE: 12-04-10  
DRAWN BY: D.R.B.



Proposed Access Road

Existing Road

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

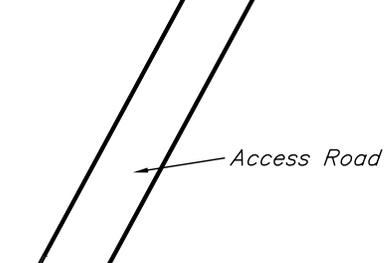
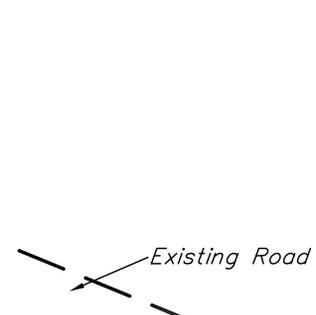
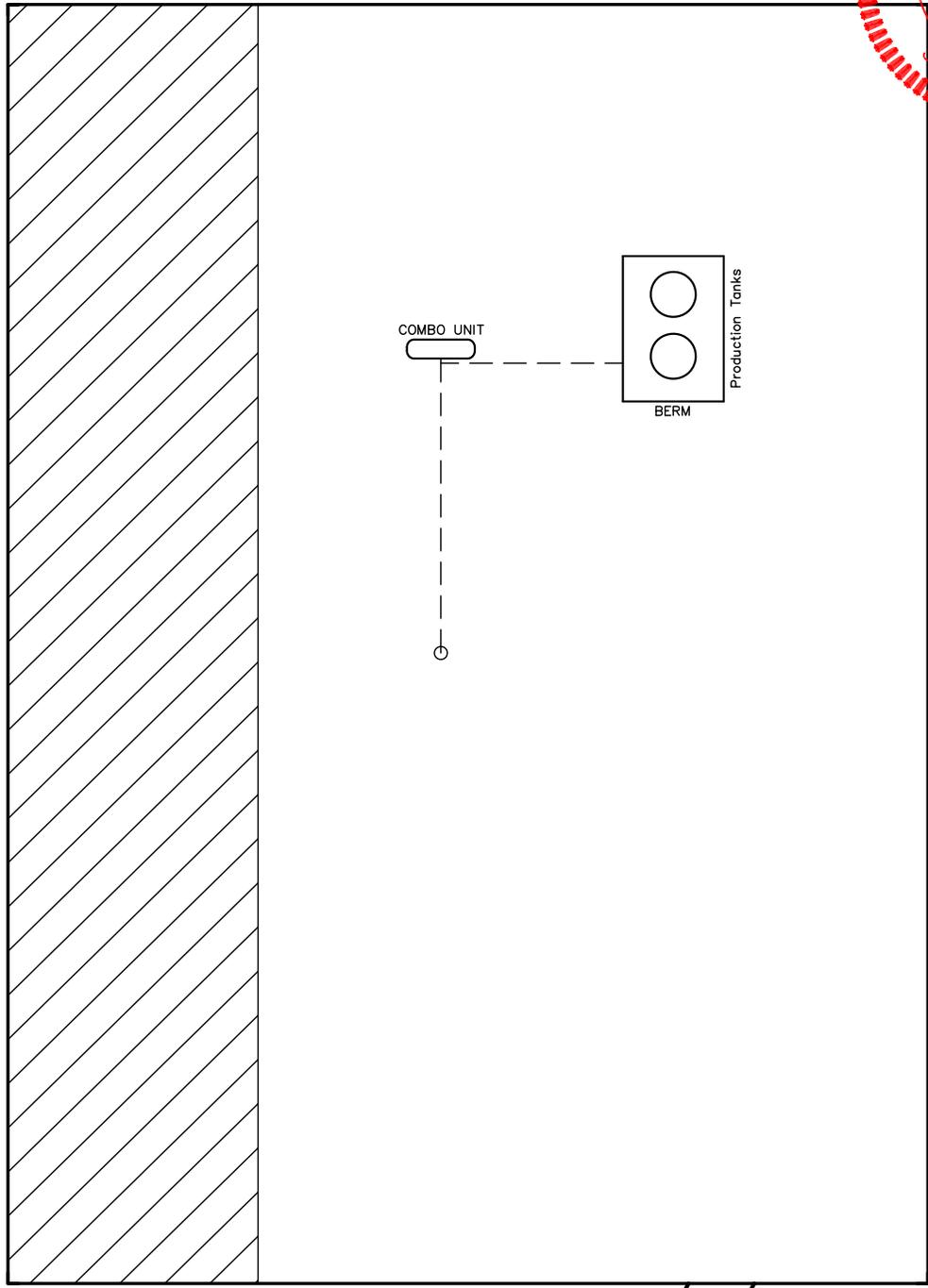
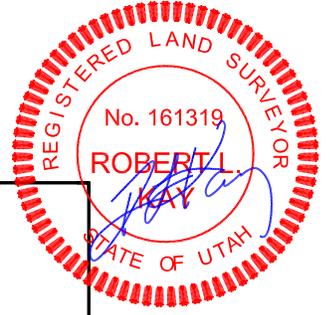
RECEIVED: November 04, 2011



SCALE: 1" = 50'  
DATE: 12-04-10  
DRAWN BY: D.R.B.

**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
**NORTH DUCK CREEK #365-34**  
**SECTION 34, T8S, R21E, S.L.B.&M.**  
**504' FNL 642' FEL**

*FIGURE #4*



 RECLAIMED AREA

*UINTAH ENGINEERING & LAND SURVEYING*  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**RECEIVED: November 04, 2011**

EOG RESOURCES, INC.  
NORTH DUCK CREEK #365-34  
SURFACE USE AREA & ROAD RIGHT-OF-WAY  
SECTION 34, T8S, R21E, S.L.B.&M.

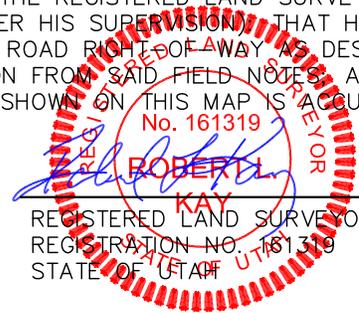
TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 127.52' OR 0.024 MILES. WIDTH OF RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.088 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF UTAH )  
                  ) SS  
COUNTY OF UINTAH )

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR EOG RESOURCES, INC., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION) THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE SURFACE USE AREA AND ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES, AND THAT SAID RIGHT-OF-WAY, 0.024 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2010.

MY COMMISSION EXPIRES \_\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC  
VERNAL, UTAH

APPLICANT'S CERTIFICATE

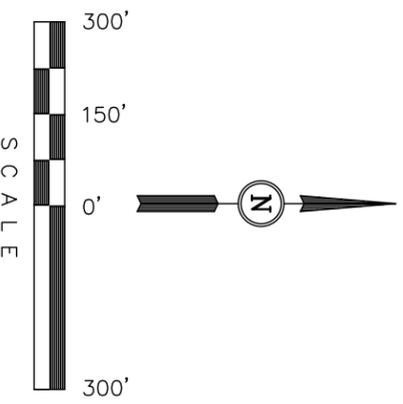
I, \_\_\_\_\_, DO HEREBY CERTIFY THAT I AM THE AGENT FOR EOG RESOURCES, INC., HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS SURFACE USE AREA AND ROAD RIGHT-OF-WAY, 0.024 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 1+27.52, THAT SAID SURFACE AREA AND ROAD RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

\_\_\_\_\_  
APPLICANT

\_\_\_\_\_  
TITLE

**LOCATION SURFACE USED AREA  
& ROAD RIGHT-OF-WAY  
ON UTE TRIBAL LANDS**

(For NORTH DUCK CREEK #365-34)  
LOCATED IN  
SECTION 34, T8S, R21E, S.L.B.&M.  
UNITAH COUNTY, UTAH



**SURFACE USE AREA DESCRIPTION**

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 34, T8S, R21E, S.L.B.&M. WHICH BEARS S39°51'01"W 949.77' FROM THE NORTHEAST CORNER OF SAID SECTION 34, THENCE N83°43'20"W 216.11'; THENCE N06°16'40"E 435.00'; THENCE S83°43'20"E 335.00'; THENCE S06°16'40"W 435.00'; THENCE N83°43'20"W 118.89' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.345 ACRES MORE OR LESS.

**CERTIFICATE**  
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD 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.  
NO. 161319



**UNITAH ENGINEERING & LAND SURVEYING**  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

|         |                  |            |             |
|---------|------------------|------------|-------------|
| SCALE   | 1" = 300'        | DATE       | 12-05-10    |
| PARTY   | G.S. T.H. D.R.B. | REFERENCES | G.L.O. PLAT |
| WEATHER | COLD             | FILE       | 5 0 1 9 5   |

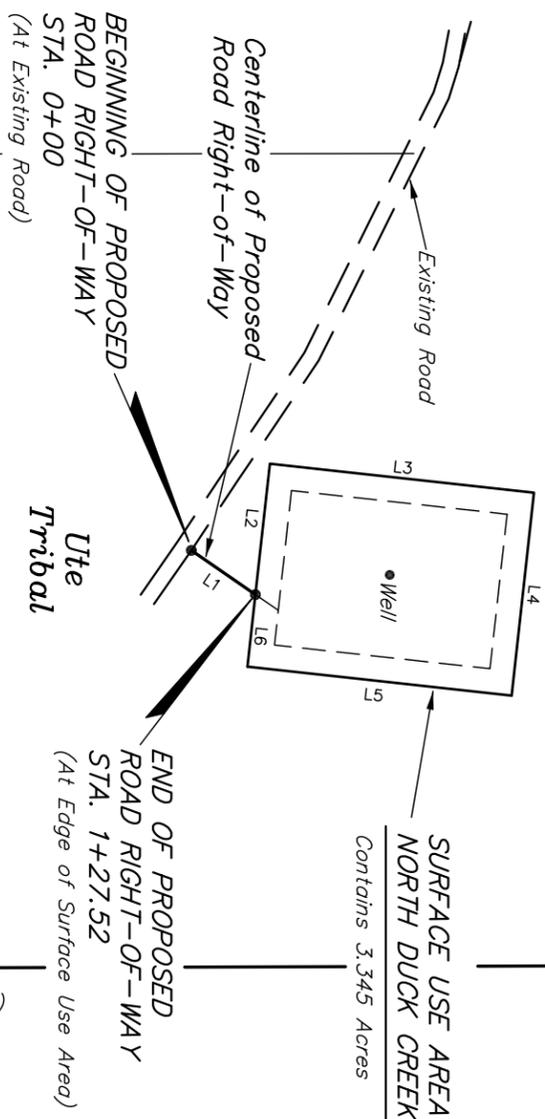
Section Line

S89°33'03"W - 2665.28' (Meas.)

1967 Brass Cap  
0.4' High, Steel  
Post

1967 Brass Cap  
0.4' High, Steel  
Post

| LINE | BEARING     | LENGTH  |
|------|-------------|---------|
| L1   | N34°39'40"E | 127.52' |
| L2   | N83°43'20"W | 216.11' |
| L3   | N06°16'40"E | 435.00' |
| L4   | S83°43'20"E | 335.00' |
| L5   | S06°16'40"W | 435.00' |
| L6   | N83°43'20"W | 118.89' |



**ROAD RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 34, T8S, R21E, S.L.B.&M. WHICH BEARS S39°14'12"W 1076.83' FROM THE NORTHEAST CORNER OF SAID SECTION 34, THENCE N34°39'40"E 127.52' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 34, WHICH BEARS S39°51'01"W 949.77' FROM THE NORTHEAST CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANITOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.088 ACRES MORE OR LESS.

NE 1/4

1/16 Section Line

N00°10'38"W - 2655.73' (Meas.)

Section Line

| RIGHT-OF-WAY LENGTHS |         |       |       |
|----------------------|---------|-------|-------|
| PROPERTY OWNER       | FEET    | ACRES | RODS  |
| UTE TRIBAL           | 127.52' | 0.088 | 7.728 |

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

1/4 Section Line

1/4 Section Line

1/16 Section Line

Sec. 34

▲ = SECTION CORNERS LOCATED.

EOG RESOURCES, INC.  
NORTH DUCK CREEK #365-34  
PIPELINE RIGHT-OF-WAY  
SECTION 34, T8S, R21E, S.L.B.&M.

TOTAL PIPELINE RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 979.16' OR 0.185 MILES. WIDTH OF RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.674 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF UTAH        )  
                          ) SS  
COUNTY OF UINTAH )

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR EOG RESOURCES, INC., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION) THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE PIPELINE RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.185 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2010.

MY COMMISSION EXPIRES \_\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC  
VERNAL, UTAH

APPLICANT'S CERTIFICATE

I, \_\_\_\_\_, DO HEREBY CERTIFY THAT I AM THE AGENT FOR EOG RESOURCES, INC., HERINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS PIPELINE RIGHT-OF-WAY, 0.185 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 9+79.16, THAT SAID PIPELINE RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

\_\_\_\_\_  
APPLICANT

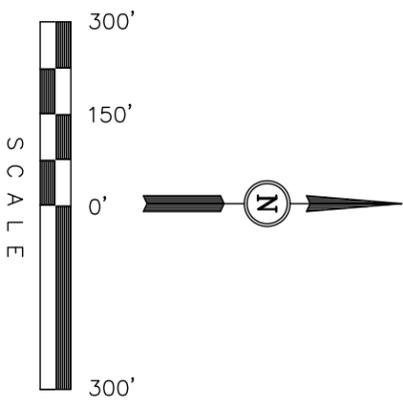
\_\_\_\_\_  
TITLE

EOG RESOURCES, INC.

**PIPELINE RIGHT-OF-WAY  
ON UTE TRIBAL LANDS**

(For NORTH DUCK CREEK #365-34)

LOCATED IN  
SECTION 34, T8S, R21E, S.L.B.&M.  
UNITAH COUNTY, UTAH



| LINE | BEARING     | LENGTH  |
|------|-------------|---------|
| L1   | S35°51'54"W | 80.88'  |
| L2   | N56°06'57"W | 170.17' |
| L3   | N59°12'14"W | 182.19' |
| L4   | N62°56'07"W | 207.23' |
| L5   | N67°29'26"W | 202.11' |
| L6   | N74°03'46"W | 136.58' |

CERTIFICATE  
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD 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.



**UNITAH ENGINEERING & LAND SURVEYING**  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

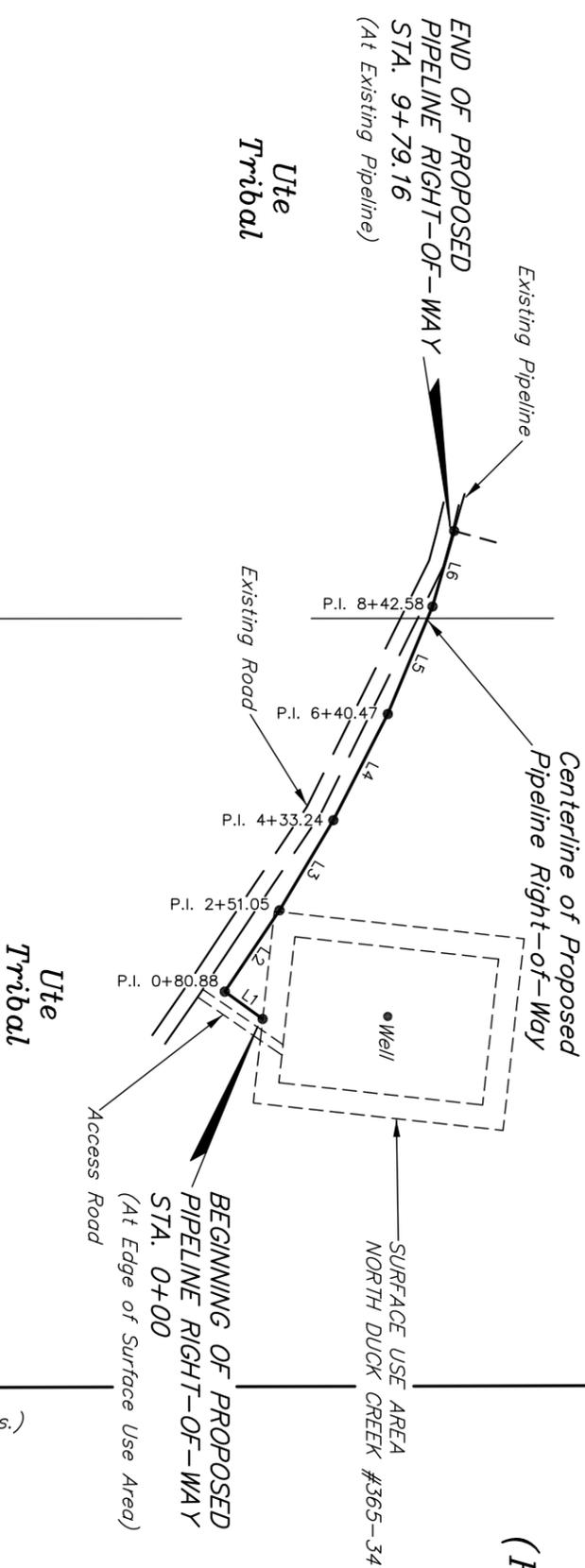
|         |           |      |           |
|---------|-----------|------|-----------|
| SCALE   | 1" = 300' | DATE | 12-05-10  |
| PARTY   | G.S.      | T.H. | D.R.B.    |
| WEATHER | COLD      | FILE | 5 0 1 9 6 |

Section Line

S89°33'03"W - 2665.28' (Meas.)

1967 Brass Cap  
0.4' High, Steel  
Post

1967 Brass Cap  
0.4' High, Steel  
Post



**PIPELINE RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 34, T8S, R21E, S.L.B.&M. WHICH BEARS S41°14'26"W 965.61' FROM THE NORTHEAST CORNER OF SAID SECTION 34, THENCE S35°51'54"W 80.88'; THENCE N56°06'57"W 170.17'; THENCE N59°12'14"W 182.19'; THENCE N62°56'07"W 207.23'; THENCE N67°29'26"W 202.11'; THENCE N74°03'46"W 136.58' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 34, WHICH BEARS S75°07'21"W 1535.77' FROM THE NORTHEAST CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.674 ACRES MORE OR LESS.

NOTE:  
BEGINNING STA. 0+00 BEARS S41°14'26"W 965.61' FROM THE NORTHEAST CORNER OF SECTION 34, T8S, R21E, S.L.B.&M.  
END STA. 9+79.16 BEARS S75°07'21"W 1535.77' FROM THE NORTHEAST CORNER OF SECTION 34, T8S, R21E, S.L.B.&M.

**RIGHT-OF-WAY LENGTHS**

| PROPERTY OWNER | FEET    | ACRES | RODS   |
|----------------|---------|-------|--------|
| UTE TRIBAL     | 979.16' | 0.674 | 59.343 |

1/4 Section Line

1/16 Section Line

1967 Brass Cap  
0.6' High, Steel  
Post

N00°10'38"W - 2655.73' (Meas.)

Sec. 34

1/4 Section Line

BASIS OF BEARINGS

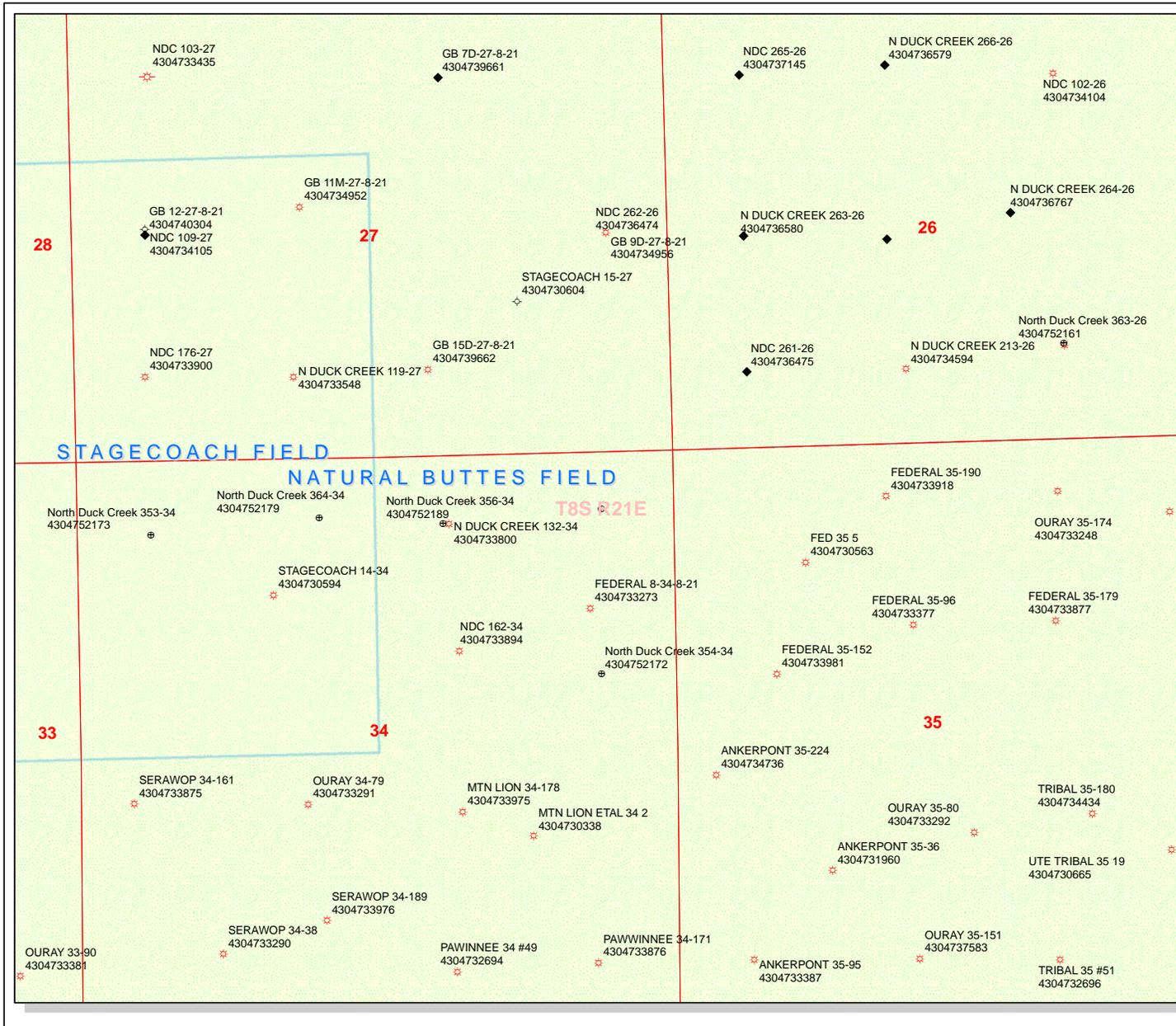
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

▲ = SECTION CORNERS LOCATED.

**EOG RESOURCES, INC.  
NORTH DUCK CREEK #365-34  
SECTION 34, T8S, R21E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHEASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 7.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 160' TO THE PROPOSED LOCATION.

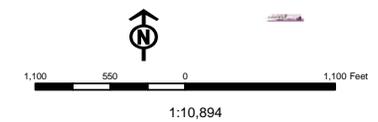
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 39.2 MILES.



**API Number: 4304752180**  
**Well Name: North Duck Creek 365-34**  
**Township T0.8 . Range R2.1 . Section 34**  
**Meridian: SLBM**  
 Operator: EOG RESOURCES, INC.

Map Prepared:  
 Map Produced by Diana Mason

- |                      |                                    |
|----------------------|------------------------------------|
| <b>Units Status</b>  | <b>Wells Query Status</b>          |
| ACTIVE               | APD - Approved Permit              |
| EXPLORATORY          | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE          | GIW - Gas Injection                |
| NF PP OIL            | GS - Gas Storage                   |
| PP OIL               | LA - Location Abandoned            |
| PP GAS               | LOC - New Location                 |
| PP GEOTHERM.         | OPS - Operation Suspended          |
| PP OIL               | PA - Plugged Abandoned             |
| SECONDARY            | PGW - Producing Gas Well           |
| TERMINATED           | POW - Producing Oil Well           |
|                      | RET - Returned APD                 |
| <b>Fields Status</b> | SGW - Shut-in Gas Well             |
| Unknown              | SOW - Shut-in Oil Well             |
| ABANDONED            | TA - Temp. Abandoned               |
| ACTIVE               | TW - Test Well                     |
| COMBINED             | WDW - Water Disposal               |
| INACTIVE             | WIW - Water Injection Well         |
| STORAGE              | WSW - Water Supply Well            |
| TERMINATED           |                                    |



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 11/4/2011**API NO. ASSIGNED:** 43047521800000**WELL NAME:** North Duck Creek 365-34**OPERATOR:** EOG Resources, Inc. (N9550)**PHONE NUMBER:** 435 781-9111**CONTACT:** Kaylene Gardner**PROPOSED LOCATION:** NENE 34 080S 210E**Permit Tech Review:** **SURFACE:** 0504 FNL 0642 FEL**Engineering Review:** **BOTTOM:** 0504 FNL 0642 FEL**Geology Review:** **COUNTY:** Uintah**LATITUDE:** 40.08543**LONGITUDE:** -109.53275**UTM SURF EASTINGS:** 625090.00**NORTHINGS:** 4438270.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU9613**PROPOSED PRODUCING FORMATION(S):** MESA VERDE**SURFACE OWNER:** 2 - Indian**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** FEDERAL - NM2308
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** Water Right # 49-225 (A31368)
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**Commingle Approved****LOCATION AND SITING:**

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:** Cause 173-23
- Effective Date:** 10/5/2009
- Siting:** 460' Fr Exterior Drilling Unit Boundary
- R649-3-11. Directional Drill**

**Comments:** Presite Completed**Stipulations:** 4 - Federal Approval - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** North Duck Creek 365-34

**API Well Number:** 43047521800000

**Lease Number:** UTU9613

**Surface Owner:** INDIAN

**Approval Date:** 11/21/2011

**Issued to:**

EOG Resources, Inc., 600 17th Street, Suite 1000 N, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-23. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | FORM 9<br><br><b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU9613 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE IN                 |
|  |  | <b>7.UNIT or CA AGREEMENT NAME:</b>                                    |
| <b>1. TYPE OF WELL</b><br>Gas Well   | <b>8. WELL NAME and NUMBER:</b><br>N DUCK CREEK 365-34 |  |
| <b>2. NAME OF OPERATOR:</b><br>EOG Resources, Inc.   | <b>9. API NUMBER:</b><br>43047521800000                |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>600 17th Street, Suite 1000 N , Denver, CO, 80202  | <b>PHONE NUMBER:</b><br>435 781-9111 Ext               | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES                 |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0504 FNL 0642 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NENE Section: 34 Township: 08.0S Range: 21.0E Meridian: S  |  | <b>COUNTY:</b><br>UINTAH   |
|  |  | <b>STATE:</b><br>UTAH  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |  |
|--|--|---|--|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>11/20/2012 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                   |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME                |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE               |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  | <input type="checkbox"/> DEEPEN                        | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION                |
|  | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                       |
|  | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON               |
|  | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                  |
|  | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input checked="" type="checkbox"/> <b>APD EXTENSION</b> |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>        |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** November 21, 2012

**By:** 

|   |                                     |  |
|---|-------------------------------------|--|
| <b>NAME (PLEASE PRINT)</b><br>Kaylene Gardner | <b>PHONE NUMBER</b><br>435 781-9111 | <b>TITLE</b><br>Regulatory Administrator |
| <b>SIGNATURE</b><br>N/A                       | <b>DATE</b><br>11/20/2012           |  |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047521800000**

API: 43047521800000

Well Name: N DUCK CREEK 365-34

Location: 0504 FNL 0642 FEL QTR NENE SEC 34 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Kaylene Gardner

Date: 11/20/2012

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.

|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | FORM 9  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU9613 |
|  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>UTE IN    |
| <b>1. TYPE OF WELL</b><br>Gas Well   |  | <b>7. UNIT or CA AGREEMENT NAME:</b>                      |
| <b>2. NAME OF OPERATOR:</b><br>EOG RESOURCES, INC.   |  | <b>8. WELL NAME and NUMBER:</b><br>N DUCK CREEK 365-34    |
| <b>3. ADDRESS OF OPERATOR:</b><br>1060 East Highway 40 , Vernal, UT, 84078   |  | <b>9. API NUMBER:</b><br>43047521800000                   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0504 FNL 0642 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NENE Section: 34 Township: 08.0S Range: 21.0E Meridian: S  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>NATURAL BUTTES    |
|  |  | <b>COUNTY:</b><br>UINTAH                                  |
|  |  | <b>STATE:</b><br>UTAH                                     |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |   |
|--|--|---|---|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>11/14/2013 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  | <input type="checkbox"/> DEEPEN                        | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION               |
|  | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|  | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|  | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input checked="" type="checkbox"/> APD EXTENSION       |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input type="text"/>                             |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** November 18, 2013

**By:** 

|   |                                     |  |
|---|-------------------------------------|--|
| <b>NAME (PLEASE PRINT)</b><br>Kaylene Gardner | <b>PHONE NUMBER</b><br>435 781-9111 | <b>TITLE</b><br>Regulatory Administrator |
| <b>SIGNATURE</b><br>N/A                       | <b>DATE</b><br>11/14/2013           |  |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047521800000**

API: 43047521800000

Well Name: N DUCK CREEK 365-34

Location: 0504 FNL 0642 FEL QTR NENE SEC 34 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Kaylene Gardner

Date: 11/14/2013

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.

|  |  |
|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b>                                      |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>UTU9613 |
| 1. TYPE OF WELL<br>Gas Well  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>UTE       |
| 2. NAME OF OPERATOR:<br>EOG RESOURCES, INC.  | 7. UNIT or CA AGREEMENT NAME:                      |
| 3. ADDRESS OF OPERATOR:<br>600 17th Street, Suite 1000 N , Denver, CO, 80202   | 8. WELL NAME and NUMBER:<br>N DUCK CREEK 365-34    |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:<br>0504 FNL 0642 FEL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>Qtr/Qtr: NENE Section: 34 Township: 08.0S Range: 21.0E Meridian: S   | 9. API NUMBER:<br>43047521800000                   |
| 9. FIELD and POOL or WILDCAT:<br>NATURAL BUTTES  | COUNTY:<br>Uintah                                  |
| 9. FIELD and POOL or WILDCAT:<br>NATURAL BUTTES  | STATE:<br>UTAH                                     |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |   |
|--|--|---|---|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>11/20/2014 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  | <input type="checkbox"/> DEEPEN                        | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION               |
|  | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|  | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|  | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input checked="" type="checkbox"/> APD EXTENSION       |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the  
 November 25, 2014  
 Oil, Gas and Mining

Date: \_\_\_\_\_

By: 

|   |                                     |  |
|---|-------------------------------------|--|
| <b>NAME (PLEASE PRINT)</b><br>Donna J Skinner | <b>PHONE NUMBER</b><br>303 262-9467 | <b>TITLE</b><br>Sr. Regulatory Assistant |
| <b>SIGNATURE</b><br>N/A                       | <b>DATE</b><br>11/20/2014           |  |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047521800000**

API: 43047521800000

Well Name: N DUCK CREEK 365-34

Location: 0504 FNL 0642 FEL QTR NENE SEC 34 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Donna J Skinner

Date: 11/20/2014

Title: Sr. Regulatory Assistant Representing: EOG RESOURCES, INC.

|  |  |
|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b>                                      |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>UTU9613 |
| 1. TYPE OF WELL<br>Gas Well  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>UTE       |
| 2. NAME OF OPERATOR:<br>EOG RESOURCES, INC.  | 7. UNIT or CA AGREEMENT NAME:                      |
| 3. ADDRESS OF OPERATOR:<br>1060 East Highway 40 , Vernal, UT, 84078  | 8. WELL NAME and NUMBER:<br>N DUCK CREEK 365-34    |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:<br>0504 FNL 0642 FEL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>Qtr/Qtr: NENE Section: 34 Township: 08.0S Range: 21.0E Meridian: S   | 9. API NUMBER:<br>43047521800000                   |
| 9. FIELD and POOL or WILDCAT:<br>NATURAL BUTTES  | COUNTY:<br>UINTAH                                  |
| 9. FIELD and POOL or WILDCAT:<br>NATURAL BUTTES  | STATE:<br>UTAH                                     |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |   |
|--|--|---|---|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:<br><b>10/13/2015</b> | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:   | <input type="checkbox"/> DEEPEN                        | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION               |
|  | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|  | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|  | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|  | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|  | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input checked="" type="checkbox"/> APD EXTENSION       |
|  | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the**  
**October 15, 2015**  
**Oil, Gas and Mining**

Date: \_\_\_\_\_  
 By: 

|  |                              |                               |
|--|------------------------------|-------------------------------|
| NAME (PLEASE PRINT)<br>Kristen Sheehan | PHONE NUMBER<br>303 262-9931 | TITLE<br>Assistant Regulatory |
| SIGNATURE<br>N/A                       | DATE<br>10/13/2015           |                               |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047521800000**

API: 43047521800000

Well Name: N DUCK CREEK 365-34

Location: 0504 FNL 0642 FEL QTR NENE SEC 34 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Kristen Sheehan

Date: 10/13/2015

Title: Assistant Regulatory Representing: EOG RESOURCES, INC.

|  |  |
|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b>                                      |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>UTU9613 |
| 1. TYPE OF WELL<br>Gas Well  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>UTE       |
| 2. NAME OF OPERATOR:<br>EOG RESOURCES, INC.  | 7. UNIT or CA AGREEMENT NAME:                      |
| 3. ADDRESS OF OPERATOR:<br>600 17th Street Ste 1000N , Denver, CO, 80202   | 8. WELL NAME and NUMBER:<br>N DUCK CREEK 365-34    |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:<br>0504 FNL 0642 FEL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>Qtr/Qtr: NENE Section: 34 Township: 08.0S Range: 21.0E Meridian: S   | 9. API NUMBER:<br>43047521800000                   |
| 9. FIELD and POOL or WILDCAT:<br>NATURAL BUTTES  | COUNTY:<br>Uintah                                  |
| 9. API NUMBER:<br>43047521800000   | STATE:<br>UTAH                                     |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION   |   |   |
|---|--|---|---|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>11/8/2016 | <input type="checkbox"/> ACIDIZE                       | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> CASING REPAIR                  |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:                                 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:  | <input type="checkbox"/> CHANGE WELL STATUS            | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> CONVERT WELL TYPE              |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:   | <input type="checkbox"/> DEEPEN                        | <input type="checkbox"/> FRACTURE TREAT                 | <input type="checkbox"/> NEW CONSTRUCTION               |
|   | <input type="checkbox"/> OPERATOR CHANGE               | <input type="checkbox"/> PLUG AND ABANDON               | <input type="checkbox"/> PLUG BACK                      |
|   | <input type="checkbox"/> PRODUCTION START OR RESUME    | <input type="checkbox"/> RECLAMATION OF WELL SITE       | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
|   | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       | <input type="checkbox"/> TEMPORARY ABANDON              |
|   | <input type="checkbox"/> TUBING REPAIR                 | <input type="checkbox"/> VENT OR FLARE                  | <input type="checkbox"/> WATER DISPOSAL                 |
|   | <input type="checkbox"/> WATER SHUTOFF                 | <input type="checkbox"/> SI TA STATUS EXTENSION         | <input checked="" type="checkbox"/> APD EXTENSION       |
|   | <input type="checkbox"/> WILDCAT WELL DETERMINATION    | <input type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

**Approved by the**  
**November 08, 2016**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:**

|   |                                     |  |
|---|-------------------------------------|--|
| <b>NAME (PLEASE PRINT)</b><br>Kaylene Gardner | <b>PHONE NUMBER</b><br>435 781-9111 | <b>TITLE</b><br>Regulatory Administrator |
| <b>SIGNATURE</b><br>N/A                       |                                     | <b>DATE</b><br>11/8/2016                 |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047521800000**

API: 43047521800000

Well Name: N DUCK CREEK 365-34

Location: 0504 FNL 0642 FEL QTR NENE SEC 34 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Kaylene Gardner

Date: 11/8/2016

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.