

BEST MANAGEMENT PRACTICES (BMP's)

STORM WATER QUALITY BEST MANAGEMENT PRACTICE SHALL BE IMPLEMENTED TO MINIMIZE SOIL EROSION, SEDIMENTATION, INCREASED POLLUTION LOADS AND CHANGED WATER FLOW CHARACTERISTICS RESULTING FROM LAND DISTURBING ACTIVITY TO THE MAXIMUM EXTENT PRACTICAL, AS TO MINIMIZE POLLUTION OF RECEIVING WATERS.

IMPLEMENTED BMP'S

| CONSTRUCTION STRUCTURAL BMP'S | PERMANENT STRUCTURAL BMP'S |
|--|--|
| <input checked="" type="checkbox"/> VTC PAD | <input type="checkbox"/> VTC PAD |
| <input checked="" type="checkbox"/> DITCH & BERM SYSTEM | <input type="checkbox"/> DITCH & BERM SYSTEM |
| <input type="checkbox"/> INLET PROTECTION | <input type="checkbox"/> CULVERT OUTLET PROTECTION |
| <input type="checkbox"/> CULVERT OUTLET PROTECTION | <input type="checkbox"/> WASH WATER SEDIMENTATION POND |
| <input type="checkbox"/> WASH WATER SEDIMENTATION POND | <input type="checkbox"/> COGCC APPROVED CONTAINMENT BERM |
| <input type="checkbox"/> SILT FENCING | <input type="checkbox"/> RIP RAP |
| <input type="checkbox"/> RIP RAP | <input checked="" type="checkbox"/> REVEGETATION |
| <input type="checkbox"/> EROSION CONTROL MAT | |
| <input checked="" type="checkbox"/> SEDIMENT CONTROL LOG | |
| <input checked="" type="checkbox"/> SURFACE ROUGHENING | |
| ADDITIONAL BMP'S: _____ | ADDITIONAL BMP'S: _____ |
| _____ | _____ |
| _____ | _____ |

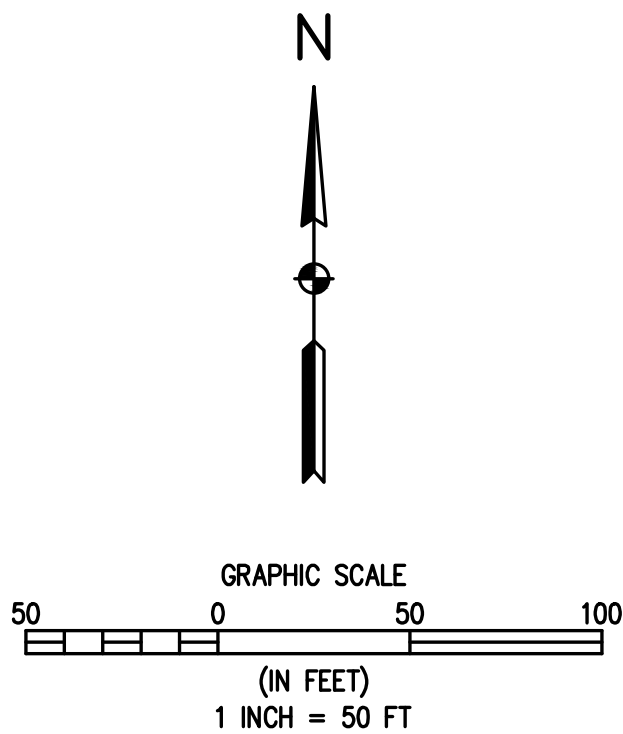
EROSION AND SEDIMENT CONTROL

1. TO THE EXTENT PRACTICABLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GRADING ACTIVITIES. AT ALL TIMES DURING PROJECT CONSTRUCTION, ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO PREVENT ACCELERATED EROSION ON THE SITE AND ON ANY ADJACENT PROPERTIES.
2. ALL TOPSOIL, WHERE PHYSICALLY PRACTICABLE, SHALL BE SALVAGED AND NO TOPSOIL SHALL BE REMOVED FROM SITE EXCEPT AS SET FORTH IN THE APPROVED PLANS. TOPSOIL AND OVERBURDEN SHALL BE SEGREGATED AND STOCKPILED SEPARATELY, AND OVERBURDEN SHALL BE REDISTRIBUTED WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS WHICH WILL BE SEEDED AND PLANTED. RUNOFF FROM STOCKPILED AREA SHALL BE CONTROLLED TO PREVENT EROSION AND RESULTANT SEDIMENTATION OF RECEIVING WATER.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MEASURES SHALL BE APPLIED WITHIN 14 DAYS TO DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL BE LEFT DORMANT FOR LONGER THAN 30 DAYS. IT IS RECOMMENDED THAT THE PERMANENT SEED MIX BE PLANTED AFTER OCTOBER TO KEEP SEEDLINGS FROM DEVELOPING BEFORE WINTER. TEMPORARY VEGETATIVE COVER CONSISTING OF ANNUAL RYE GRASS SHALL BE HYDRO SEEDED AT 20 POUNDS PURE LIVE SEED PER ACRE.
4. FUGITIVE DUST EMISSIONS RESULTING FROM DRILLING & ACCESS ROAD CONSTRUCTION ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING WATER.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AND SHALL BE INSTALLED AS SOON AS PRACTICAL IF REQUIRED BY THE STORMWATER ADMINISTRATOR OR THEIR REPRESENTATIVE.
6. AREAS WHERE SEDIMENT CONTROL LOGS ARE NOT INDICATED MAY REQUIRE SOME FORM OF SEDIMENT CONTROL STRAW MULCH AND/OR TEMPORARY SEEDING MAY BE UTILIZED AS NECESSARY.

| | |
|----------------------------------|--|
| INSPECTION AND MAINTENANCE | INSPECTIONS: |
| | <ol style="list-style-type: none"> 1. PERFORM EVERY 14 DAYS, AND FOLLOWING A WEATHER EVENT CAUSING RUNOFF DURING THE CONSTRUCTION PHASE. PERFORM EVERY 30 DAYS DURING THE COMPLETED AND INTERIM PHASES. 2. AN INSPECTION REPORT WILL BE FILLED OUT, & FILED FOR EACH INSPECTION PERFORMED. 3. MAKE A <u>COPY</u> OF EACH INSPECTION REPORT AVAILABLE TO THE COUNTY UPON REQUEST. |
| | <p>MAINTENANCE:</p> <ol style="list-style-type: none"> 1. PERFORM MAINTENANCE AND REPAIRS AS SOON AS POSSIBLE ON ITEMS OR AREAS IDENTIFIED IN THE INSPECTION REPORT 2. PERFORM MAINTENANCE AS INDICATED IN THE URBAN DRAINAGE & FLOOD CONTROL DISTRICT, URBAN STORM DRAINAGE CRITERIA MANUAL, VOL. 3, PER MANUFACTURER'S SPECIFICATIONS OR OTHER SOURCES DETERMINED TO BE ACCEPTABLE. <p>AN EFFICIENT RECORD-KEEPING SYSTEM IS A HELPFUL TOOL IN MANAGING INSPECTION AND MAINTENANCE REPORTS. INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING LOGS, AND OTHER SITE RELATED CORRESPONDENCE WILL BE MAINTAINED IN THE MASTER EROSION CONTROL PLAN.</p> |

LEGEND

| EXISTING LINETYPES | | PROPOSED LINETYPES | | EXISTING SYMBOLS | | PROPOSED SYMBOLS | |
|--------------------|------|--------------------|------|------------------|--|------------------|--------------------------|
| | 81 | | 81 | | | | CONTROL POINT |
| | 5280 | | 5280 | | | | SPOT ELEVATION |
| | | | | | | | PERCENT SLOPE |
| | | | | | | | NOMINAL SLOPE |
| | | | | | | | ELECTRIC PANEL |
| | | | | | | | GAS MARKER |
| | | | | | | | IRRIGATION CONTROL VALVE |
| | | | | | | | PROPOSED WELL |
| | | | | | | | RIPRAP |
| | GAS | | GAS | | | | WATTLE |
| | GAS | | GAS | | | | TRACKING CONTROL |
| | GAS | | GAS | | | | |



DRILLING STORMWATER MANAGEMENT PLAN

BASELINE

Engineering • Planning • Surveying

710 11TH AVENUE, SUITE 105 • GREELEY, COLORADO 80631
P: 970.353.7600 • F: 970.353.7601 • www.basellnecorp.com

| | | |
|--------------------|-----------------|-------------------|
| DESIGNED BY AAD | DRAWN BY LDS | CHECKED BY AAD |
|--------------------|-----------------|-------------------|

PREPARED BY DATE

REVISION DESCRIPTION

EXTRACTION OIL & GAS

OF BROOMFIELD COUNTY OF BROOMFIELD
EXHIBIT Q – NORTHWEST A PAD
SOUTHWEST QUARTER OF SECTION 9, TOWNSHIP 1 SOUTH, RANGE 68 WEST, 6TH P.M.
DRIILLING STORMWATER MANAGEMENT PLAN

PREPARED UNDER THE DIRECT
SUPERVISION OF

**PRELIMINARY
NOT FOR
CONSTRUCTION**

BASELINE CORPORATION

| | |
|--------------|-----------|
| DRAWING SIZE | 24" X 36" |
|--------------|-----------|

| | |
|-------------|-------------|
| SURVEY FIRM | SURVEY DATE |
| BASELINE | 5/5/2016 |

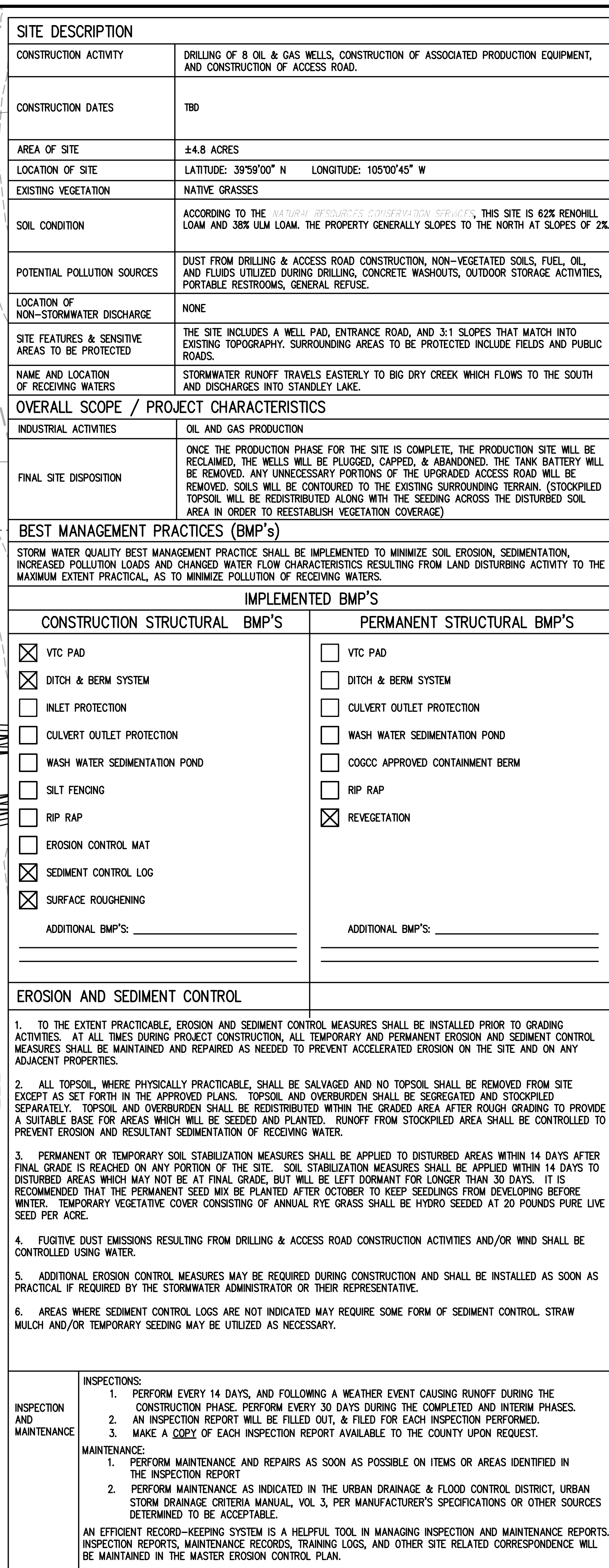
JOB NO. C015272

DRAWING NAME

Northwest A Drilling.dwg

| | | | |
|-------|---|----|---|
| SHEET | 1 | OF | 3 |
|-------|---|----|---|

Q1



| | |
|--|---|
| SITE DESCRIPTION | |
| CONSTRUCTION ACTIVITY | DRILLING OF 8 OIL & GAS WELLS, CONSTRUCTION OF ASSOCIATED PRODUCTION EQUIPMENT, AND CONSTRUCTION OF ACCESS ROAD. |
| CONSTRUCTION DATES | TBD |
| AREA OF SITE | ±4.8 ACRES |
| LOCATION OF SITE | LATITUDE: 39°59'00" N LONGITUDE: 105°00'45" W |
| EXISTING VEGETATION | NATIVE GRASSES |
| SOIL CONDITION | ACCORDING TO THE <i>NATURAL RESOURCES CONSERVATION SERVICE</i> , THIS SITE IS 62% RENOHILL LOAM AND 38% ULM LOAM. THE PROPERTY GENERALLY SLOPES TO THE NORTH AT SLOPES OF 2%. |
| POTENTIAL POLLUTION SOURCES | DUST FROM DRILLING & ACCESS ROAD CONSTRUCTION, NON-VEGETATED SOILS, FUEL, OIL, AND FLUIDS UTILIZED DURING DRILLING, CONCRETE WASHOUTS, OUTDOOR STORAGE ACTIVITIES, PORTABLE RESTROOMS, GENERAL REFUSE. |
| LOCATION OF NON-STORMWATER DISCHARGE | NONE |
| SITE FEATURES & SENSITIVE AREAS TO BE PROTECTED | THE SITE INCLUDES A WELL PAD, ENTRANCE ROAD, AND 3:1 SLOPES THAT MATCH INTO EXISTING TOPOGRAPHY. SURROUNDING AREAS TO BE PROTECTED INCLUDE FIELDS AND PUBLIC ROADS. |
| NAME AND LOCATION OF RECEIVING WATERS | STORMWATER RUNOFF TRAVELS EASTERLY TO BIG DRY CREEK WHICH FLOWS TO THE SOUTH AND DISCHARGES INTO STANDLEY LAKE. |
| OVERALL SCOPE / PROJECT CHARACTERISTICS | |
| INDUSTRIAL ACTIVITIES | OIL AND GAS PRODUCTION |
| FINAL SITE DISPOSITION | ONCE THE PRODUCTION PHASE FOR THE SITE IS COMPLETE, THE PRODUCTION SITE WILL BE RECLAIMED, THE WELLS WILL BE PLUGGED, CAPPED, & ABANDONED. THE TANK BATTERY WILL BE REMOVED. ANY UNNECESSARY PORTIONS OF THE UPGRADED ACCESS ROAD WILL BE REMOVED. SOILS WILL BE CONTOURED TO THE EXISTING SURROUNDING TERRAIN. (STOCKPILED TOPSOIL WILL BE REDISTRIBUTED ALONG WITH THE SEEDING ACROSS THE DISTURBED SOIL AREA IN ORDER TO REESTABLISH VEGETATION COVERAGE) |
| BEST MANAGEMENT PRACTICES (BMP'S) | |
| STORM WATER QUALITY BEST MANAGEMENT PRACTICE SHALL BE IMPLEMENTED TO MINIMIZE SOIL EROSION, SEDIMENTATION, INCREASED POLLUTION LOADS AND CHANGED WATER FLOW CHARACTERISTICS RESULTING FROM LAND DISTURBING ACTIVITY TO THE MAXIMUM EXTENT PRACTICAL, AS TO MINIMIZE POLLUTION OF RECEIVING WATERS. | |
| IMPLEMENTED BMP'S | |
| CONSTRUCTION STRUCTURAL BMP'S | PERMANENT STRUCTURAL BMP'S |
| <input checked="" type="checkbox"/> VTC PAD <input checked="" type="checkbox"/> DITCH & BERM SYSTEM <input type="checkbox"/> INLET PROTECTION <input type="checkbox"/> CULVERT OUTLET PROTECTION <input type="checkbox"/> WASH WATER SEDIMENTATION POND <input type="checkbox"/> SILT FENCING <input type="checkbox"/> RIP RAP <input type="checkbox"/> EROSION CONTROL MAT <input checked="" type="checkbox"/> SEDIMENT CONTROL LOG <input checked="" type="checkbox"/> SURFACE ROUGHENING ADDITIONAL BMP'S: _____ _____ _____ | <input type="checkbox"/> VTC PAD <input type="checkbox"/> DITCH & BERM SYSTEM <input type="checkbox"/> CULVERT OUTLET PROTECTION <input type="checkbox"/> WASH WATER SEDIMENTATION POND <input type="checkbox"/> COGCC APPROVED CONTAINMENT BERM <input type="checkbox"/> RIP RAP <input checked="" type="checkbox"/> REVEGETATION ADDITIONAL BMP'S: _____ _____ _____ |
| EROSION AND SEDIMENT CONTROL | |
| <p>1. TO THE EXTENT PRACTICABLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GRADING ACTIVITIES. AT ALL TIMES DURING PROJECT CONSTRUCTION, ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO PREVENT ACCELERATED EROSION ON THE SITE AND ON ANY ADJACENT PROPERTIES.</p> <p>2. ALL TOPSOIL, WHERE PHYSICALLY PRACTICABLE, SHALL BE SALVAGED AND NO TOPSOIL SHALL BE REMOVED FROM SITE EXCEPT AS SET FORTH IN THE APPROVED PLANS. TOPSOIL AND OVERBURDEN SHALL BE SEGREGATED AND STOCKPILED SEPARATELY. TOPSOIL AND OVERBURDEN SHALL BE REDISTRIBUTED WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS WHICH WILL BE SEEDED AND PLANTED. RUNOFF FROM STOCKPILED AREA SHALL BE CONTROLLED TO PREVENT EROSION AND RESULTANT SEDIMENTATION OF RECEIVING WATER.</p> <p>3. PERMANENT OR TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MEASURES SHALL BE APPLIED WITHIN 14 DAYS TO DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL BE LEFT DORMANT FOR LONGER THAN 30 DAYS. IT IS RECOMMENDED THAT THE PERMANENT SEED MIX BE PLANTED AFTER OCTOBER TO KEEP SEEDLINGS FROM DEVELOPING BEFORE WINTER. TEMPORARY VEGETATIVE COVER CONSISTING OF ANNUAL RYE GRASS SHALL BE HYDRO SEEDED AT 20 POUNDS PURE LIVE SEED PER ACRE.</p> <p>4. FUGITIVE DUST EMISSIONS RESULTING FROM DRILLING & ACCESS ROAD CONSTRUCTION ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING WATER.</p> <p>5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AND SHALL BE INSTALLED AS SOON AS PRACTICAL IF REQUIRED BY THE STORMWATER ADMINISTRATOR OR THEIR REPRESENTATIVE.</p> <p>6. AREAS WHERE SEDIMENT CONTROL LOGS ARE NOT INDICATED MAY REQUIRE SOME FORM OF SEDIMENT CONTROL. STRAW MULCH AND/OR TEMPORARY SEEDING MAY BE UTILIZED AS NECESSARY.</p> | |
| INSPECTION AND MAINTENANCE | <p>INSPECTIONS:</p> <p>1. PERFORM EVERY 14 DAYS, AND FOLLOWING A WEATHER EVENT CAUSING RUNOFF DURING THE CONSTRUCTION PHASE. PERFORM EVERY 30 DAYS DURING THE COMPLETED AND INTERIM PHASES.</p> <p>2. AN INSPECTION REPORT WILL BE FILLED OUT, & FILED FOR EACH INSPECTION PERFORMED.</p> <p>3. MAKE A <u>COPY</u> OF EACH INSPECTION REPORT AVAILABLE TO THE COUNTY UPON REQUEST.</p> <p>MAINTENANCE:</p> <p>1. PERFORM MAINTENANCE AND REPAIRS AS SOON AS POSSIBLE ON ITEMS OR AREAS IDENTIFIED IN THE INSPECTION REPORT</p> <p>2. PERFORM MAINTENANCE AS INDICATED IN THE URBAN DRAINAGE & FLOOD CONTROL DISTRICT, URBAN STORM DRAINAGE CRITERIA MANUAL, VOL 3, PER MANUFACTURER'S SPECIFICATIONS OR OTHER SOURCES DETERMINED TO BE ACCEPTABLE.</p> <p>AN EFFICIENT RECORD-KEEPING SYSTEM IS A HELPFUL TOOL IN MANAGING INSPECTION AND MAINTENANCE REPORTS. INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING LOGS, AND OTHER SITE RELATED CORRESPONDENCE WILL BE MAINTAINED IN THE MASTER EROSION CONTROL PLAN.</p> |

| | | | |
|---|----------------------------------|----------------------------|---|
| EXTRACTION OIL & GAS | | DESIGNED BY AAD | |
| CITY OF BROOMFIELD | | PREPARED BY DATE | |
| COUNTY OF BROOMFIELD | | DRAWN BY LDS | |
| EXHIBIT Q – NORTHWEST A PAD | | CHECKED BY AAD | |
| NW QUARTER OF SECTION 9, TOWNSHIP 1 SOUTH, RANGE 68 WEST, 6TH P.M. | | | |
| INTERIM STORMWATER MANAGEMENT PLAN | | | |
| PREPARED UNDER THE DIRECT SUPERVISION OF | | | |
| PRELIMINARY NOT FOR CONSTRUCTION | | | |
| FOR AND ON BEHALF OF BASELINE CORPORATION | | | |
| INITIAL SUBMITTAL | 10/28/2016 | | |
| DRAWING SIZE | 24" x 36" | | |
| SURVEY FIRM | SURVEY DATE | | |
| BASELINE | 5/5/2016 | | |
| JOB NO. | C015272 | | |
| DRAWING NAME | Northwest A Interim Drilling.dwg | | |
| SHEET | 2 | OF | 3 |

| EXISTING LINETYPES | PROPOSED LINETYPES | | EXISTING SYMBOLS | PROPOSED SYMBOLS |
|--------------------|--------------------|-------------------------------|------------------|------------------|
| | | MINOR CONTOUR (1' INTERVAL) | | |
| | | MAJOR CONTOUR (5' INTERVAL) | | |
| | | PROPERTY BOUNDARY | | |
| | | EDGE OF ASPHALT | | |
| | | EDGE OF GRAVEL | | |
| | | SECTION LINE | | |
| | | CURB AND GUTTER (SPILL/CATCH) | | |
| | | WIRE FENCE | | |
| | | DITCH FLOWLINE | | |
| | | GASLINE | | |

| SITE DESCRIPTION | |
|---|--|
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| AREA OF SITE | ±4.8 ACRES |
| LOCATION OF SITE | LATITUDE: 39°59'00" N LONGITUDE: 105°00'45" W |
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| ADDITIONAL BMP'S: _____ | ADDITIONAL BMP'S: _____ |
| _____ | _____ |
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| INSPECTION AND MAINTENANCE | <p>INSPECTIONS:</p> <ol style="list-style-type: none"> 1. PERFORM EVERY 14 DAYS, AND FOLLOWING A WEATHER EVENT CAUSING RUNOFF DURING THE CONSTRUCTION PHASE. PERFORM EVERY 30 DAYS DURING THE COMPLETED AND INTERIM PHASES. 2. AN INSPECTION REPORT WILL BE FILLED OUT, & FILED FOR EACH INSPECTION PERFORMED. 3. MAKE A <u>COPY</u> OF EACH INSPECTION REPORT AVAILABLE TO THE COUNTY UPON REQUEST. <p>MAINTENANCE:</p> <ol style="list-style-type: none"> 1. PERFORM MAINTENANCE AND REPAIRS AS SOON AS POSSIBLE ON ITEMS OR AREAS IDENTIFIED IN THE INSPECTION REPORT 2. PERFORM MAINTENANCE AS INDICATED IN THE URBAN DRAINAGE & FLOOD CONTROL DISTRICT, URBAN STORM DRAINAGE CRITERIA MANUAL, VOL 3, PER MANUFACTURER'S SPECIFICATIONS OR OTHER SOURCES DETERMINED TO BE ACCEPTABLE. <p>AN EFFICIENT RECORD—KEEPING SYSTEM IS A HELPFUL TOOL IN MANAGING INSPECTION AND MAINTENANCE REPORTS. INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING LOGS, AND OTHER SITE RELATED CORRESPONDENCE WILL BE MAINTAINED IN THE MASTER EROSION CONTROL PLAN.</p> |
| | |