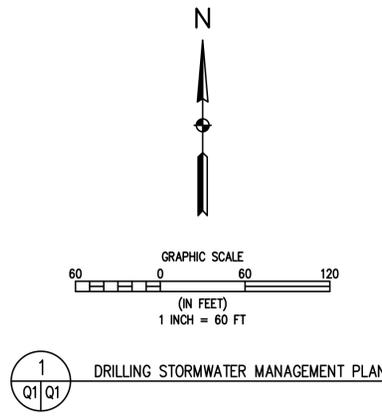


M:\co-15272 Extraction Broomfield-Thornton Gathering Line Feed\Drawings\02-Interchange B\Drilling.dwg, 12/6/2017 6:24:38 PM, Luke Seeber



LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	EXISTING SYMBOLS	PROPOSED SYMBOLS	DESCRIPTION
81	81	△	△	CONTROL POINT
5280	5280	25.44	25.36	SPOT ELEVATION
---	---	→	→	PERCENT SLOPE
---	---	▲	▲	NOMINAL SLOPE
---	---	□	□	ELECTRIC PANEL
---	---	□	□	GAS MARKER
---	---	□	□	IRRIGATION CONTROL VALVE
---	---	○	○	PROPOSED WELL HEAD
---	---	○	○	RIPRAP
---	---	○	○	WATTLE
---	---	○	○	TRACKING CONTROL
---	---	---	---	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	
CONSTRUCTION ACTIVITY	DRILLING OF 17 OIL & GAS WELLS, CONSTRUCTION OF ASSOCIATED PRODUCTION EQUIPMENT, AND CONSTRUCTION OF ACCESS ROAD.
CONSTRUCTION DATES	TBD
AREA OF SITE	±8.0 ACRES
LOCATION OF SITE	LATITUDE: 39°58'44" N LONGITUDE: 104°59'29" W
EXISTING VEGETATION	NATIVE GRASSES
SOIL CONDITION	ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE, THIS SITE IS 44% PLATNER LOAM AND 56% ULM LOAM. THE PROPERTY DRAINS TO THE SOUTH AT 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 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**
- 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.
 - 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 SEED AND PLANTED. RUNOFF FROM STOCKPILED AREA SHALL BE CONTROLLED TO PREVENT EROSION AND RESULTANT SEDIMENTATION OF RECEIVING WATER.
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 - 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.
 - 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:
	1. PERFORM EVERY 14 DAYS, AND FOLLOWING A WEATHER EVENT CAUSING RUNOFF DURING THE CONSTRUCTION PHASE. PERFORMANCE 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 COPY OF EACH INSPECTION REPORT AVAILABLE TO THE COUNTY UPON REQUEST.
	MAINTENANCE:
	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.
	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.

BASELINE
 Engineering - Planning - Surveying
 4007 S. LINCOLN AVENUE, SUITE 405 • LOVELAND, COLORADO 80537
 P. 970.333.7800 • F. 970.333.7864 • www.baselineinc.com

DESIGNED BY	DATE
AAD	

DRAWN BY	DATE
LDS	

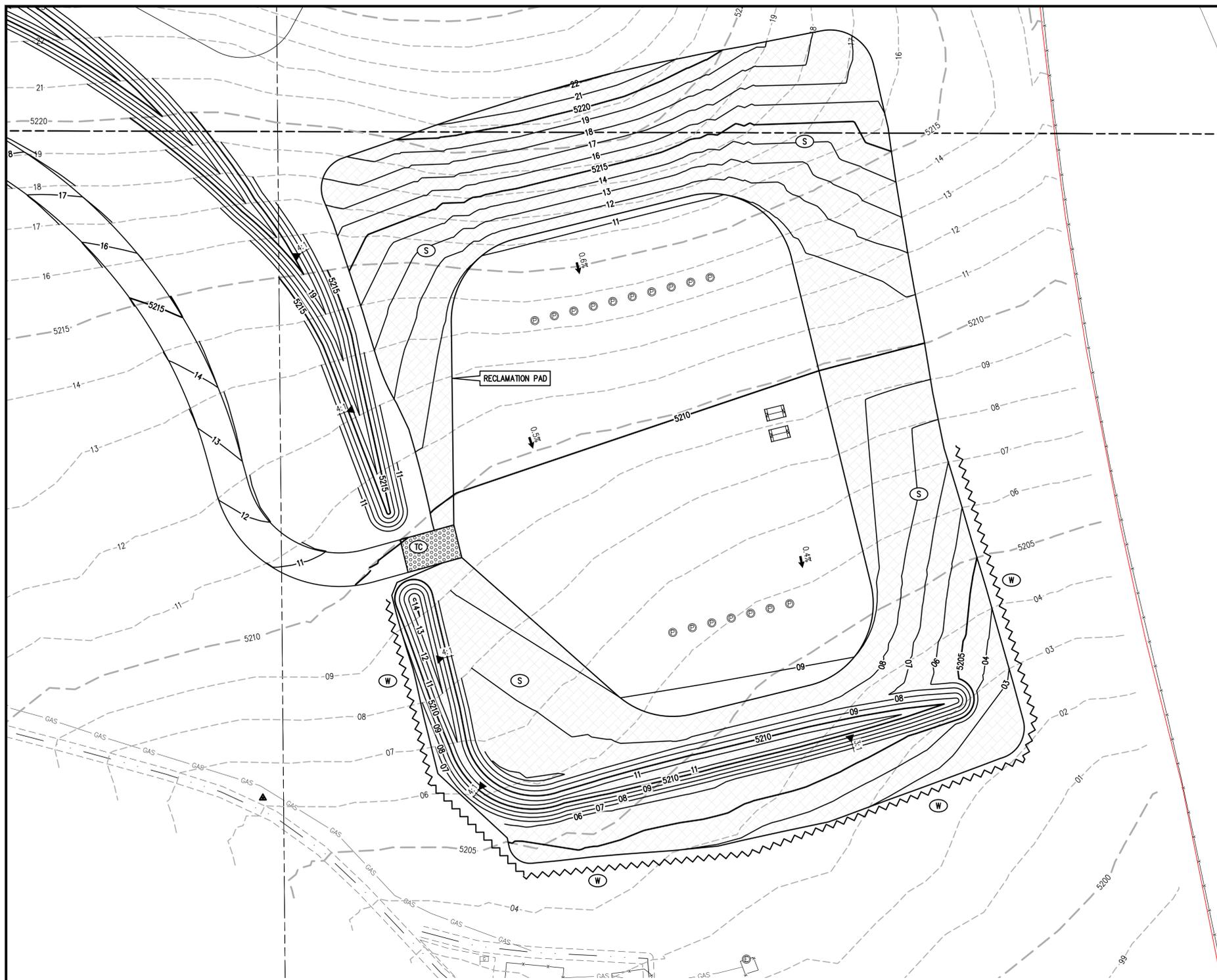
CHECKED BY	DATE
AAD	

EXTRACTION OIL & GAS
 COUNTY OF BROOMFIELD
 EXHIBIT Q - INTERCHANGE B PAD
 SOUTHWEST 1/4 OF SECTION 10, TOWNSHIP 1 SOUTH, RANGE 68 WEST, 6TH P.M.
 DRILLING STORMWATER MANAGEMENT PLAN

FOR AND ON BEHALF OF
 BASELINE CORPORATION
 INITIAL SUBMITTAL: xx/xx/xxxx
 DRAWING SIZE: 24" x 36"
 SURVEY FIRM: SURVEY DATE: xx/xx/xx
 BASELINE: xx/xx/xx
 JOB NO.: C015272
 DRAWING NAME: Interchange B Drilling.dwg
 SHEET 1 OF 3

PRELIMINARY NOT FOR CONSTRUCTION

M:\co-15272 Extraction Broomfield-Thornton Gathering Line Feed\Drawings\02-Interchange B Interim Drilling.dwg, 12/6/2017 6:25:02 PM, Luke Seeber



SITE DESCRIPTION	
CONSTRUCTION ACTIVITY	DRILLING OF 17 OIL & GAS WELLS, CONSTRUCTION OF ASSOCIATED PRODUCTION EQUIPMENT, AND CONSTRUCTION OF ACCESS ROAD.
CONSTRUCTION DATES	TBD
AREA OF SITE	±8.0 ACRES
LOCATION OF SITE	LATITUDE: 39°58'44" N LONGITUDE: 104°59'29" W
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SOIL CONDITION	ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE, THIS SITE IS 44% PLATNER LOAM AND 56% ULM LOAM. THE PROPERTY DRAINS TO THE SOUTH ON 2% SLOPES.
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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.
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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)

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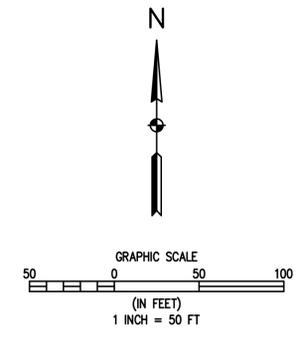
IMPLEMENTED BMP'S	
CONSTRUCTION STRUCTURAL BMP'S	PERMANENT STRUCTURAL BMP'S
<input checked="" type="checkbox"/> VTC PAD	<input type="checkbox"/> VTC PAD
<input checked="" type="checkbox"/> DITCH & BERM SYSTEM	<input type="checkbox"/> DITCH & BERM SYSTEM
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<input type="checkbox"/> CULVERT OUTLET PROTECTION	<input type="checkbox"/> WASH WATER SEDIMENTATION POND
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<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: _____

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INSPECTION AND MAINTENANCE	INSPECTIONS:
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	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.

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	EXISTING SYMBOLS	PROPOSED SYMBOLS	DESCRIPTION
--- 81 ---	— 81 —	△	△	MINOR CONTOUR (1' INTERVAL)
--- 5280 ---	— 5280 —	25.4+	25.36	MAJOR CONTOUR (5' INTERVAL)
---	---	→	→	PROPERTY BOUNDARY
---	---	→	→	EDGE OF ASPHALT
---	---	→	→	EDGE OF GRAVEL
---	---	→	→	SECTION LINE
---	---	→	→	CURB AND GUTTER (SPILL/CATCH)
---	---	→	→	WIRE FENCE
---	---	→	→	DITCH FLOWLINE
---	---	→	→	GASLINE
---	---	→	→	CONTROL POINT
---	---	→	→	SPOT ELEVATION
---	---	→	→	PERCENT SLOPE
---	---	→	→	NOMINAL SLOPE
---	---	→	→	ELECTRIC PANEL
---	---	→	→	GAS MARKER
---	---	→	→	IRRIGATION CONTROL VALVE
---	---	→	→	PROPOSED WELL HEAD
---	---	→	→	RIPRAP
---	---	→	→	WATTLE
---	---	→	→	TRACKING CONTROL



1
02 Q2
INTERIM RECLAMATION STORMWATER MANAGEMENT PLAN

BASELINE
 Engineering - Planning - Surveying
 4007 S. LINCOLN AVENUE, SUITE 405 • LOVELAND, COLORADO 80537
 P. 970.333.7800 • F. 970.333.7864 • www.baselineinc.com

DESIGNED BY: AAD
 DRAWN BY: LDS
 CHECKED BY: AAD

DATE: _____
 PREPARED BY: _____

REVISION DESCRIPTION

EXTRACTION OIL & GAS
 COUNTY OF BROOMFIELD
 EXHIBIT Q - INTERCHANGE B PAD
 SOUTHWEST 1/4 OF SECTION 10, TOWNSHIP 1 SOUTH, RANGE 68 WEST, 6TH P.M.
 INTERIM RECLAMATION STORMWATER MANAGEMENT PLAN

FOR AND ON BEHALF OF
 BASELINE CORPORATION
 INITIAL SUBMITTAL: xx/xx/xxxx
 DRAWING SIZE: 24" X 36"
 SURVEY FIRM: BASELINE SURVEY DATE: xx/xx/xx
 JOB NO.: C015272
 DRAWING NAME: Interchange B Interim Drilling.dwg
 SHEET 2 OF 3

PRELIMINARY NOT FOR CONSTRUCTION

Q2

M:\co-15272 Extraction Broomfield-Thornton Gathering Line Feed\Drawings\02-Interchange B Reclamation.dwg, 12/6/2017 6:25:37 PM, Luke Seeber



SITE DESCRIPTION	
CONSTRUCTION ACTIVITY	DRILLING OF 17 OIL & GAS WELLS, CONSTRUCTION OF ASSOCIATED PRODUCTION EQUIPMENT, AND CONSTRUCTION OF ACCESS ROAD.
CONSTRUCTION DATES	TBD
AREA OF SITE	±8.0 ACRES
LOCATION OF SITE	LATITUDE: 39°58'44" N LONGITUDE: 104°59'29" W
EXISTING VEGETATION	NATIVE GRASSES
SOIL CONDITION	ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE, THIS SITE IS 44% PLATNER LOAM AND 56% ULM LOAM. THE PROPERTY DRAINS TO THE SOUTH ON 2% SLOPES.
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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)

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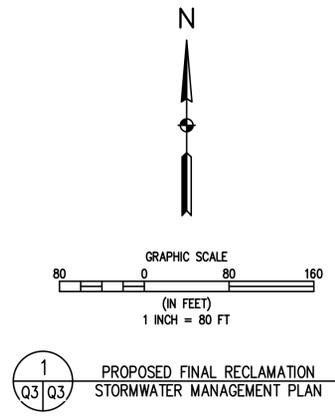
IMPLEMENTED BMP'S	
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<input checked="" type="checkbox"/> VTC PAD	<input type="checkbox"/> VTC PAD
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ADDITIONAL BMP'S: _____	ADDITIONAL BMP'S: _____

EROSION AND SEDIMENT CONTROL

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LEGEND		
EXISTING LINETYPES	PROPOSED LINETYPES	
--- 81 ---	— 81 —	MINOR CONTOUR (1' INTERVAL)
--- 5280 ---	— 5280 —	MAJOR CONTOUR (5' INTERVAL)
---	---	PROPERTY BOUNDARY
---	---	EDGE OF ASPHALT
---	---	EDGE OF GRAVEL
---	---	SECTION LINE
---	---	CURB AND GUTTER (SPILL/CATCH)
---	---	WIRE FENCE
---	---	DITCH FLOWLINE
---	---	GASLINE
---	---	EXISTING SYMBOLS
---	---	PROPOSED SYMBOLS
△	△	CONTROL POINT
25.4+	25.36	SPOT ELEVATION
→ 3%	→ 3:1	PERCENT SLOPE
→ 3:1	→ 3:1	NOMINAL SLOPE
□	□	ELECTRIC PANEL
□	□	GAS MARKER
□	□	IRRIGATION CONTROL VALVE
○	○	PROPOSED WELL
○	○	RIPRAP
○	○	WATTLE
○	○	TRACKING CONTROL



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DESIGNED BY: AAD

DRAWN BY: LDS

CHECKED BY: AAD

DATE: _____

PREPARED BY: _____

REVISION DESCRIPTION:

NO.	DESCRIPTION

EXTRACTION OIL & GAS

COUNTY OF BROOMFIELD

EXHIBIT Q - INTERCHANGE B PAD

SOUTHWEST 1/4 OF SECTION 10, TOWNSHIP 1 SOUTH, RANGE 68 WEST, 6TH P.M.

PROPOSED FINAL RECLAMATION STORMWATER MANAGEMENT PLAN

FOR AND ON BEHALF OF

BASELINE CORPORATION

INITIAL SUBMITTAL: xx/xx/xxxx

DRAWING SIZE: 24" X 36"

SURVEY FIRM: SURVEY DATE: xx/xx/xx

JOB NO.: C015272

DRAWING NAME: Interchange B Reclamation.dwg

SHEET 3 OF 3

PRELIMINARY

NOT FOR CONSTRUCTION