





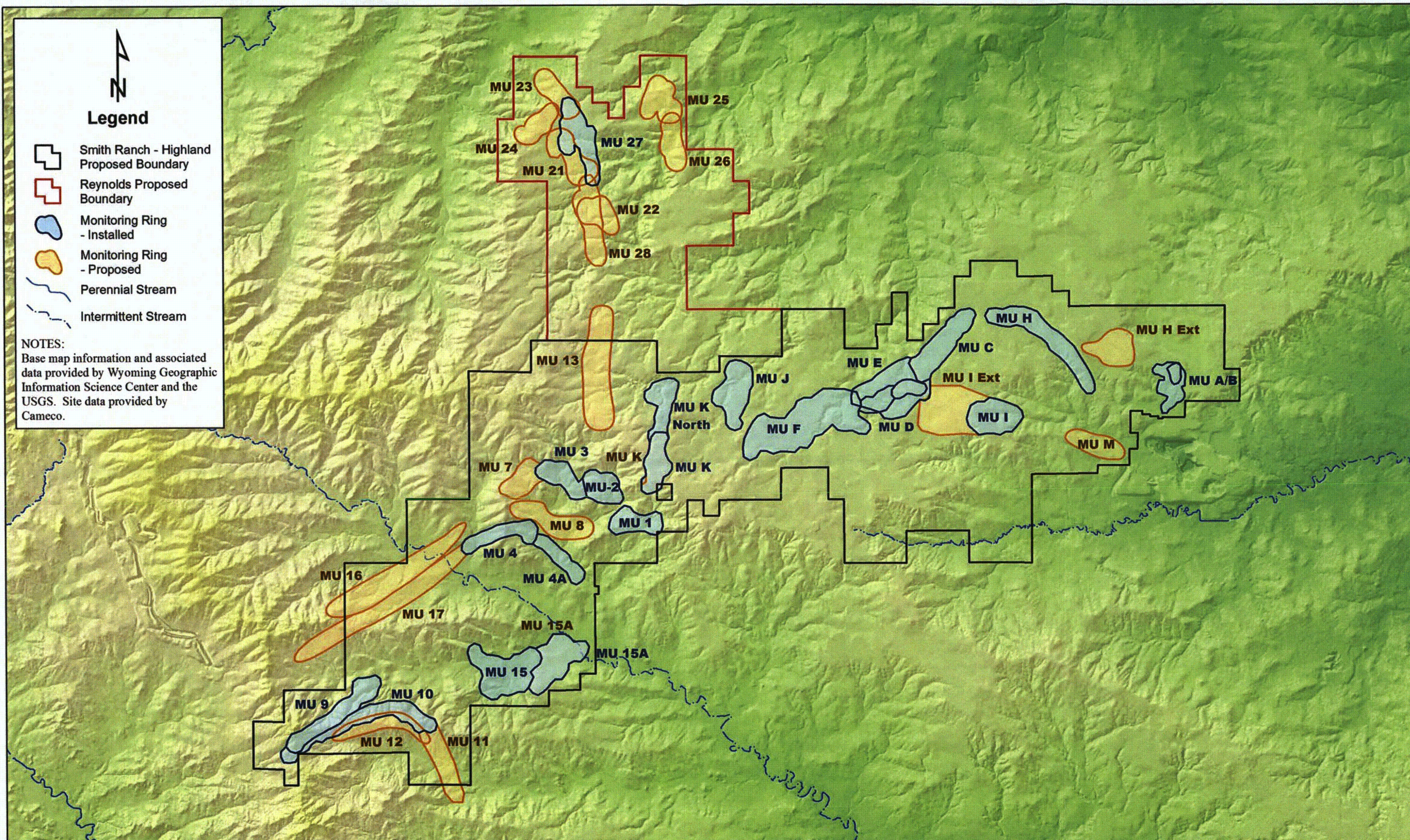




**Legend**

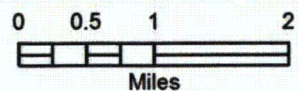
-  Smith Ranch - Highland Proposed Boundary
-  Reynolds Proposed Boundary
-  Monitoring Ring - Installed
-  Monitoring Ring - Proposed
-  Perennial Stream
-  Intermittent Stream

NOTES:  
 Base map information and associated data provided by Wyoming Geographic Information Science Center and the USGS. Site data provided by Cameco.



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Hydrogeology, Water Resources & Data Services



STATE PLANE ZONE EAST NAD27

PROJECT # 40100545  
 DATE: 9/12/11  
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 DOCUMENT NAME AND PATH




**ISR WELLFIELD (MINE UNIT) LOCATIONS**  
 SMITH RANCH-HIGHLAND/REYNOLDS RANCH FACILITIES  
 CONVERSE COUNTY - WYOMING

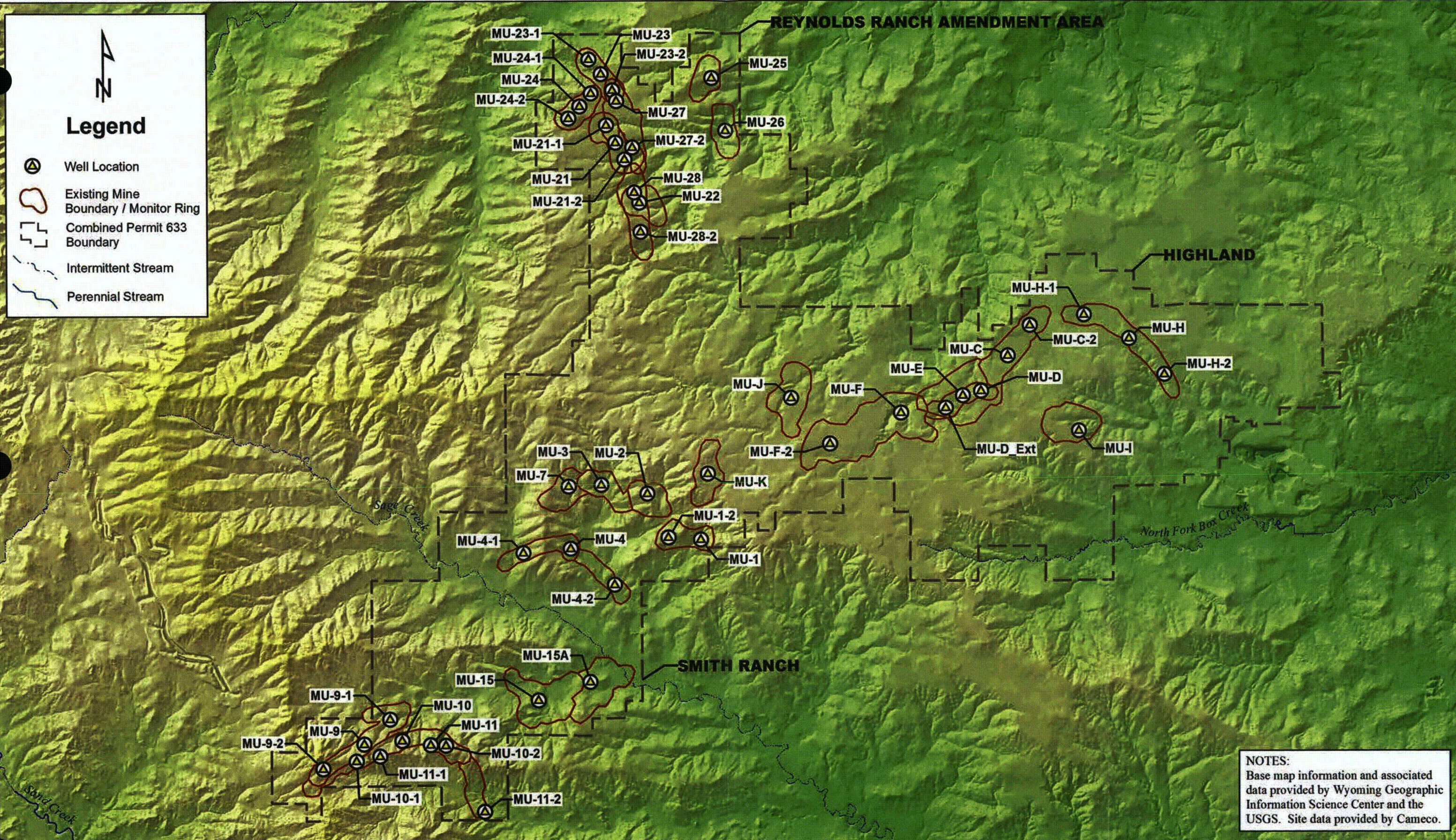
**FIGURE:**

**4-1**



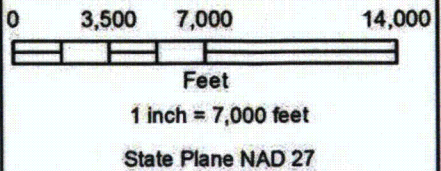
**Legend**

-  Well Location
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
 Base map information and associated data provided by Wyoming Geographic Information Science Center and the USGS. Site data provided by Cameco.

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PROJECT 40100612  
 DATE: 9/10/2013  
 DRAWN BY: CLIN  
 REVIEWED BY: BLEWIS  
 DOCUMENT NAME AND PATH

**MODFLOW WELL LOCATION MAP**  
 SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT  
 CONVERSE COUNTY - WYOMING






Revised 10/15/13

**FIGURE:**  
 412

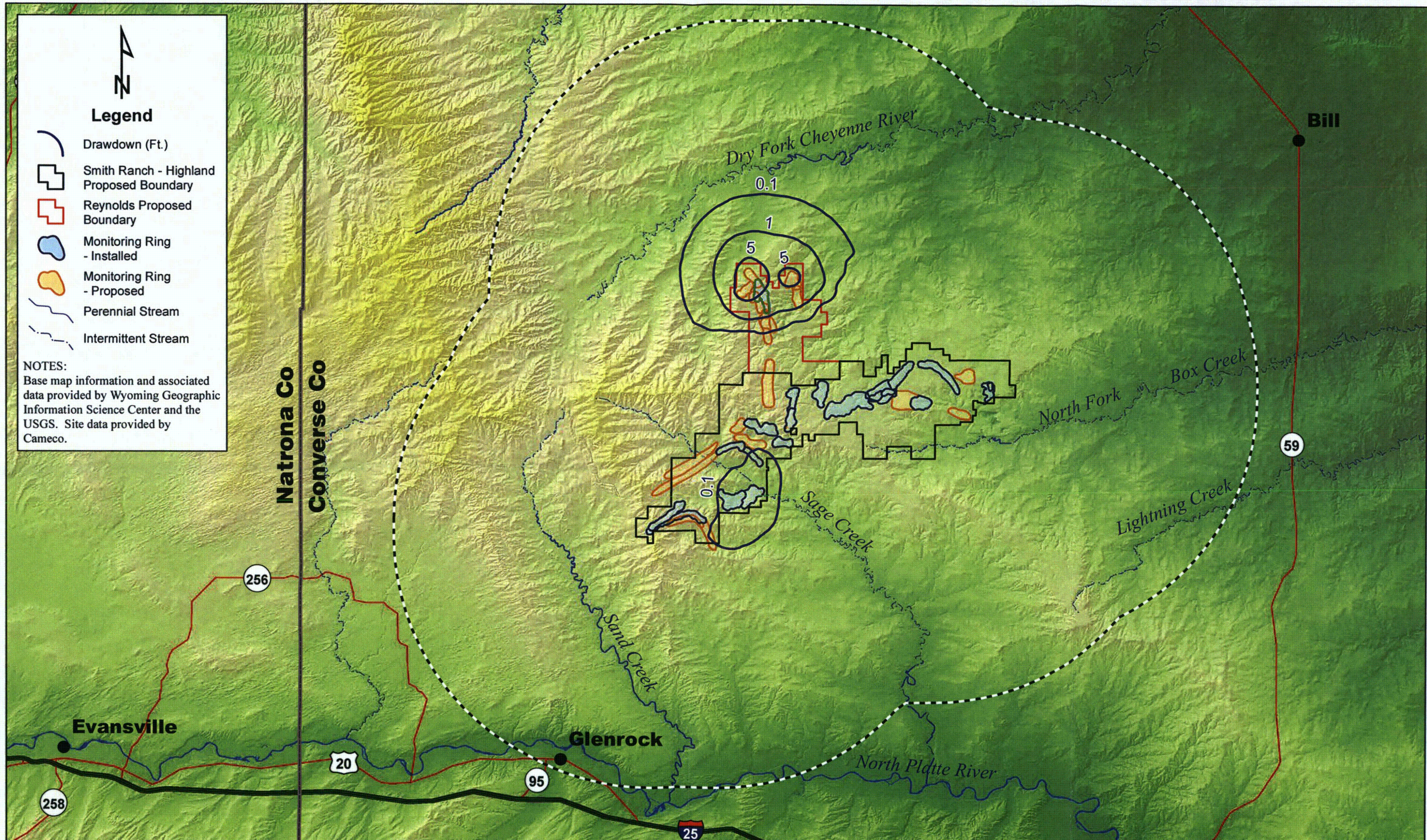




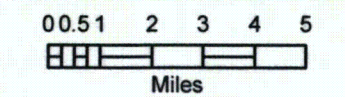
**Legend**

-  Drawdown (Ft.)
-  Smith Ranch - Highland Proposed Boundary
-  Reynolds Proposed Boundary
-  Monitoring Ring - Installed
-  Monitoring Ring - Proposed
-  Perennial Stream
-  Intermittent Stream

NOTES:  
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STATE PLANE ZONE EAST NAD27

PROJECT # 40100545  
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 DOCUMENT NAME AND PATH






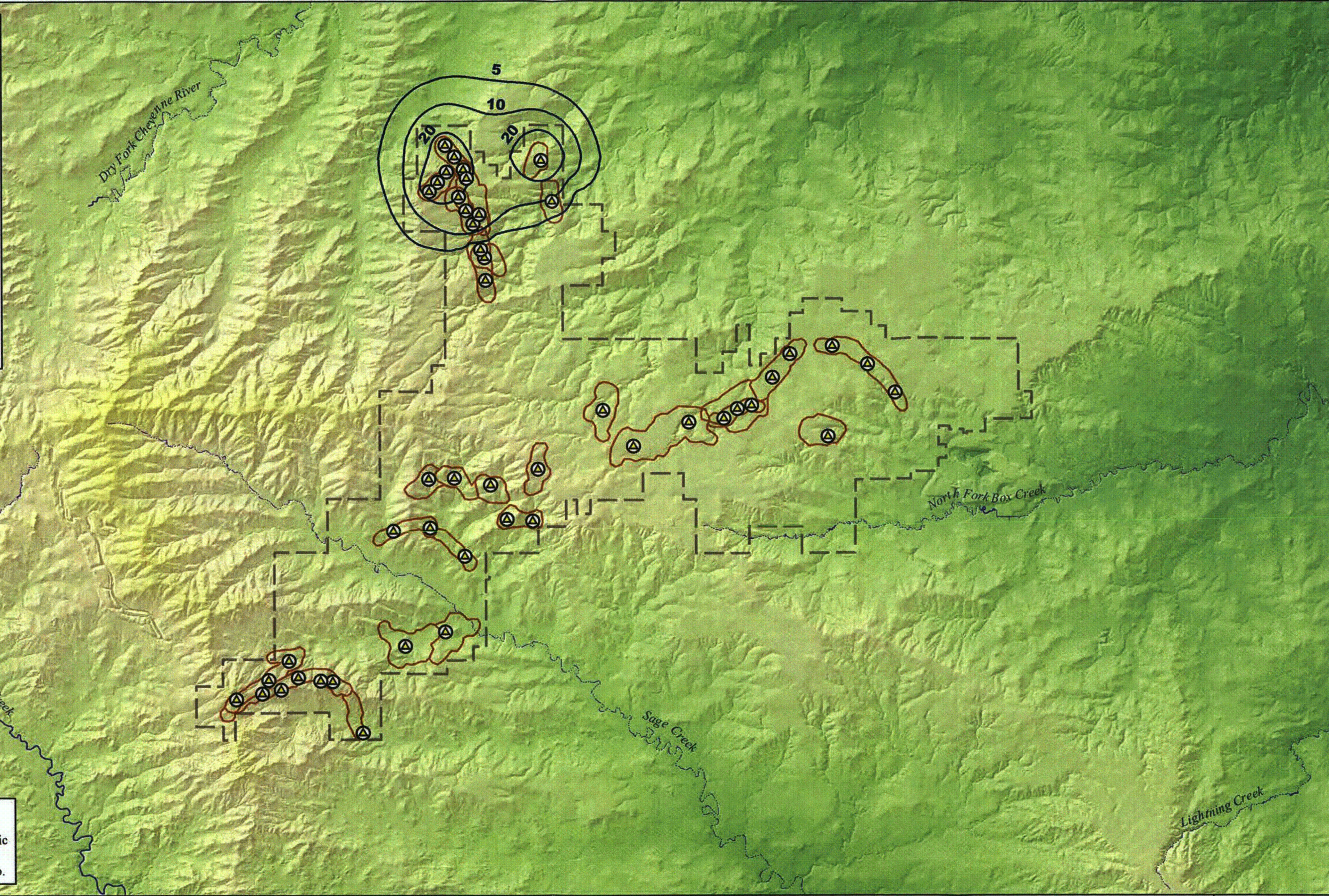
**WATER-TABLE DRAWDOWN,  
 SHR-RR ISR FACILITY, DEVELOPMENT YEAR 18**  
 SMITH RANCH-HIGHLAND/REYNOLDS RANCH FACILITIES  
 CONVERSE COUNTY - WYOMING Revised 10/15/13

**FIGURE:**  
 4-2



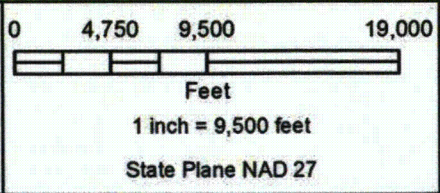
**Legend**

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
 Base map information and associated data provided by Wyoming Geographic Information Science Center and the USGS. Site data provided by Cameco.

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**Maximum U-Sand Drawdown (Layer 3),  
 Development Year 22**

Revised 10/15/13







SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

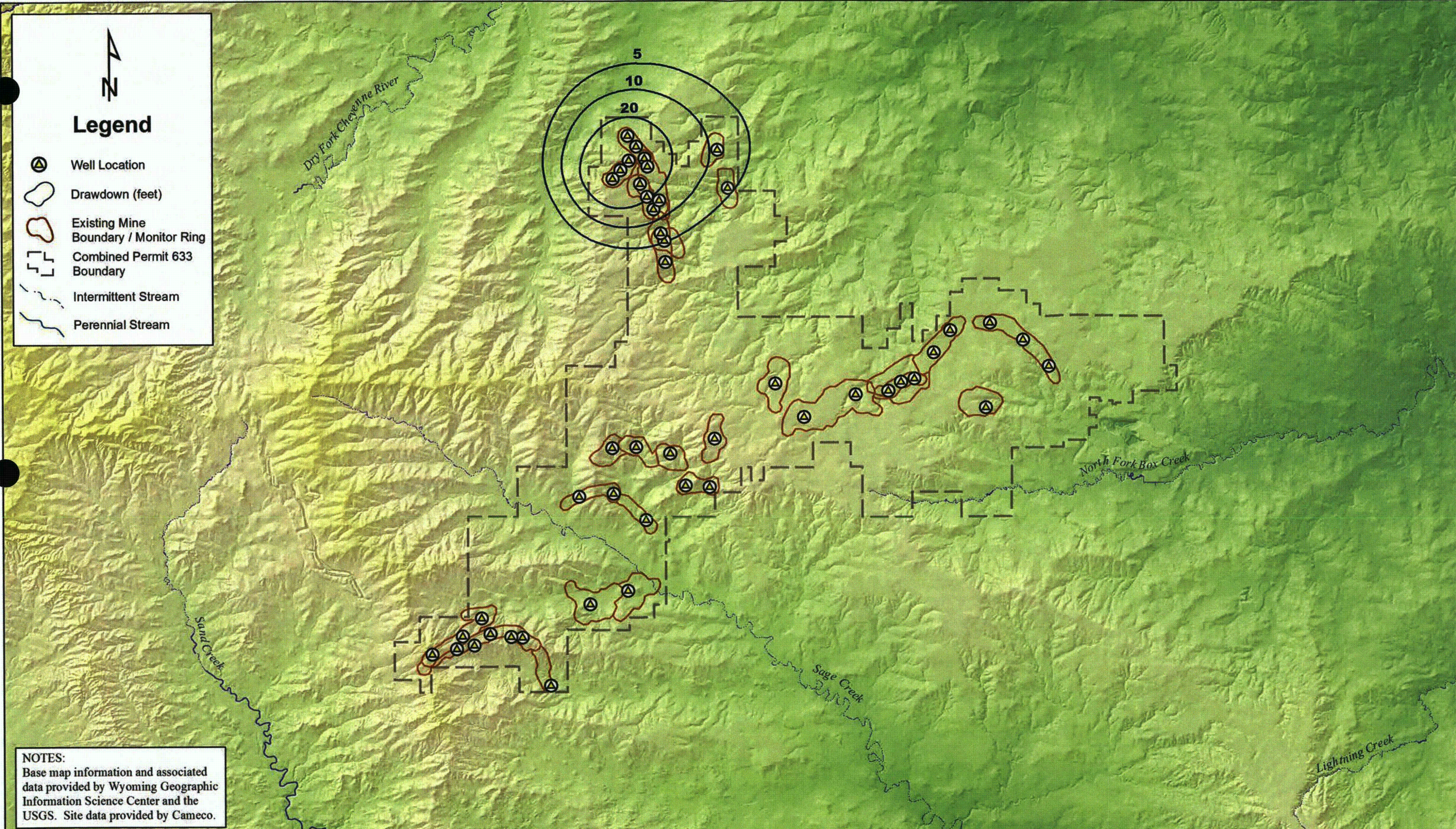
**FIGURE:**  
 424





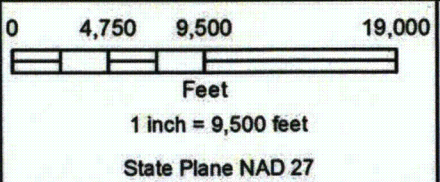
### Legend

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
 Base map information and associated data provided by Wyoming Geographic Information Science Center and the USGS. Site data provided by Cameco.

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PROJECT 40100612  
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 REVIEWED BY: BLEWIS  
 DOCUMENT NAME AND PATH

**Maximum S-Sand Drawdown (Layer 5),  
 Development Year 18**

Revised 10/15/13







SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

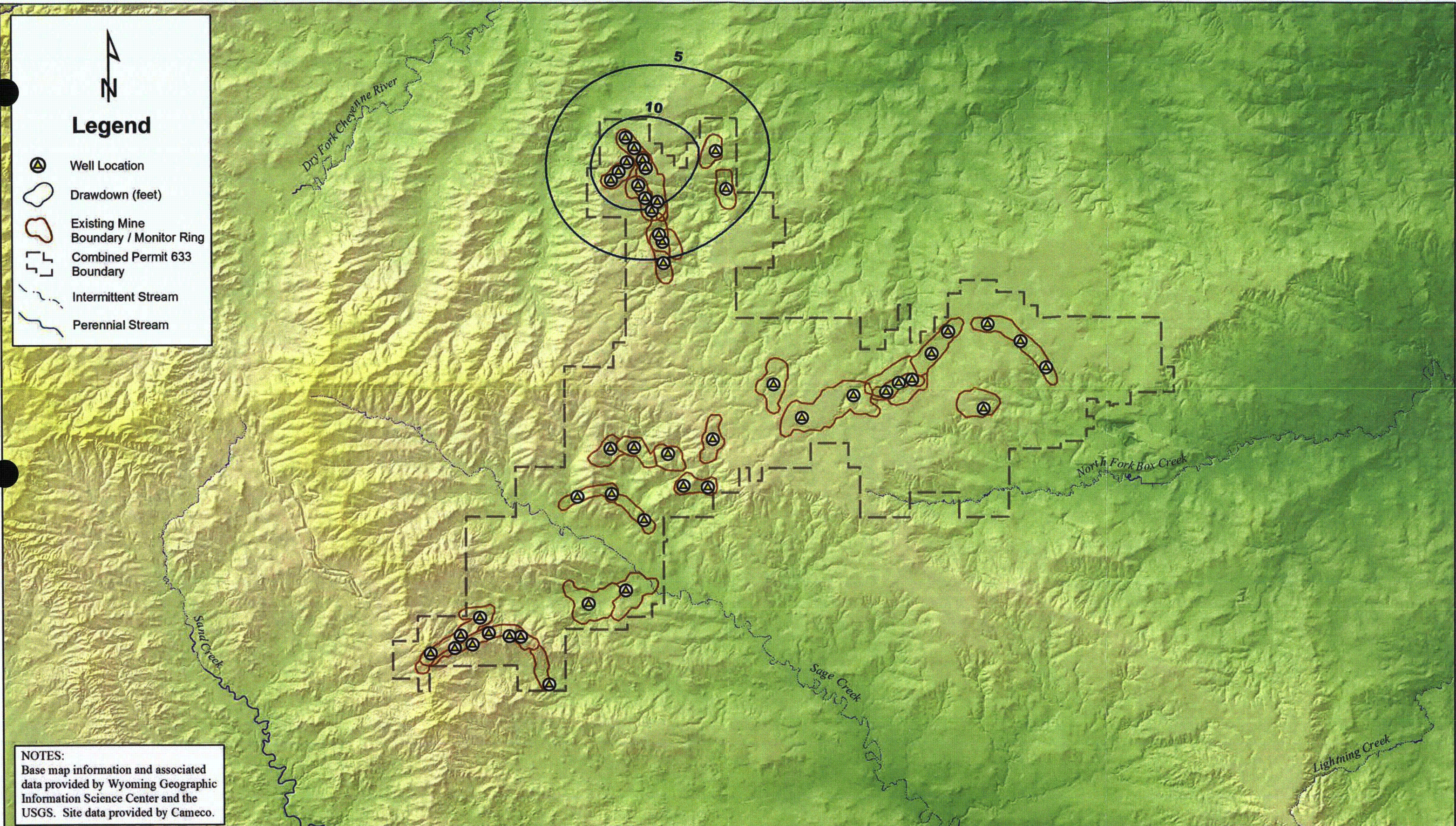
**FIGURE:**  
 435





### Legend

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
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0 4,750 9,500 19,000  
 Feet  
 1 inch = 9,500 feet  
 State Plane NAD 27

PROJECT 40100612  
 DATE: 9/10/2013  
 DRAWN BY: CLIN  
 REVIEWED BY: BLEWIS  
 DOCUMENT NAME AND PATH

**Maximum Q-Sand Drawdown (Layer 7),  
 Development Year 22**

Revised 10/15/13







SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

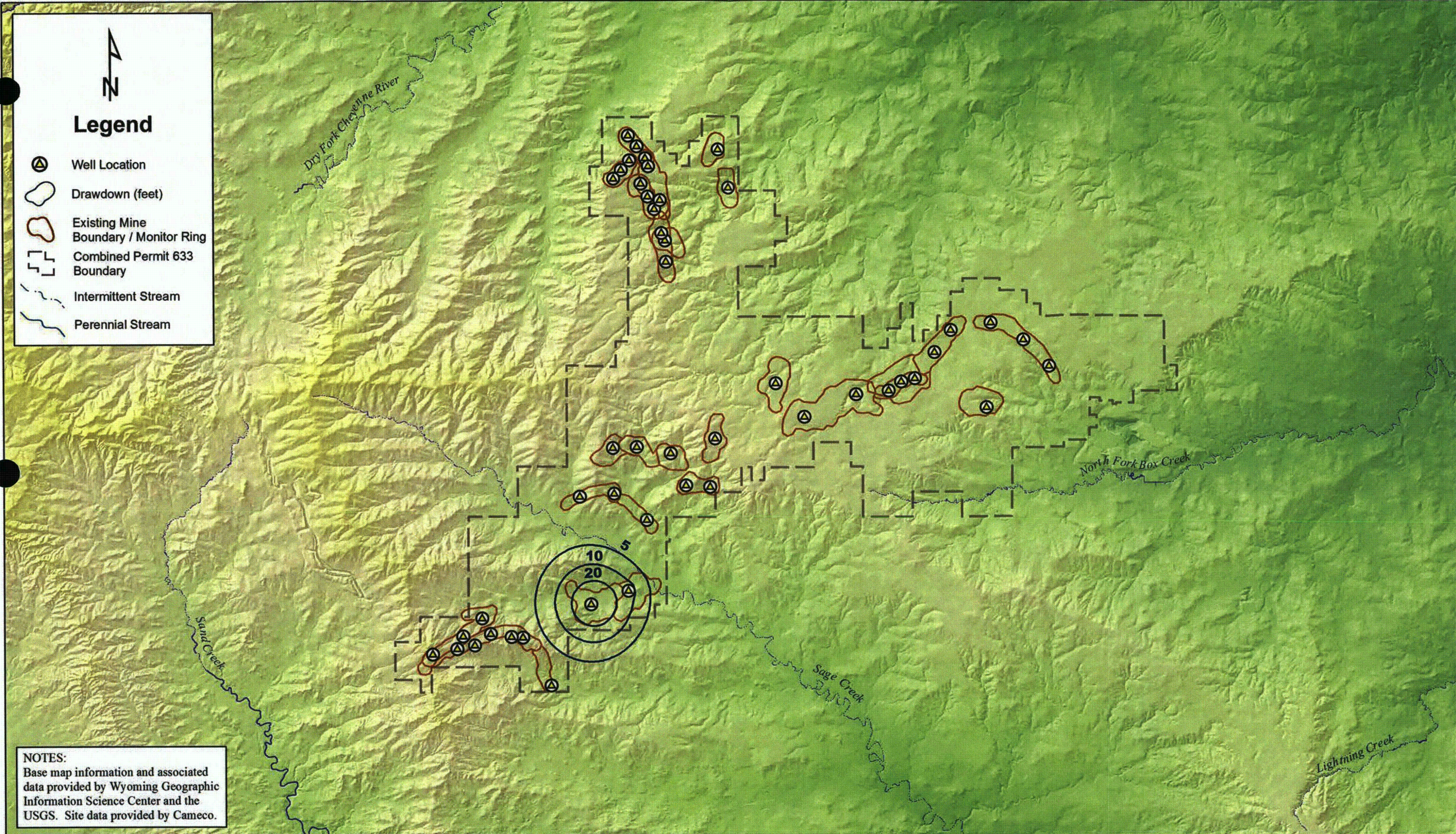
**FIGURE:**  
 446





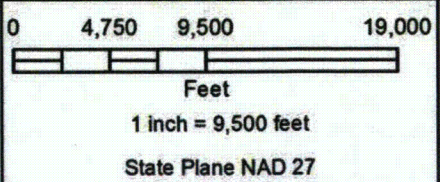
### Legend

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



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**Maximum O4-Sand (80-Sand) Drawdown (Layer 9),  
 Development Year 7**

Revised 10/15/13







SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

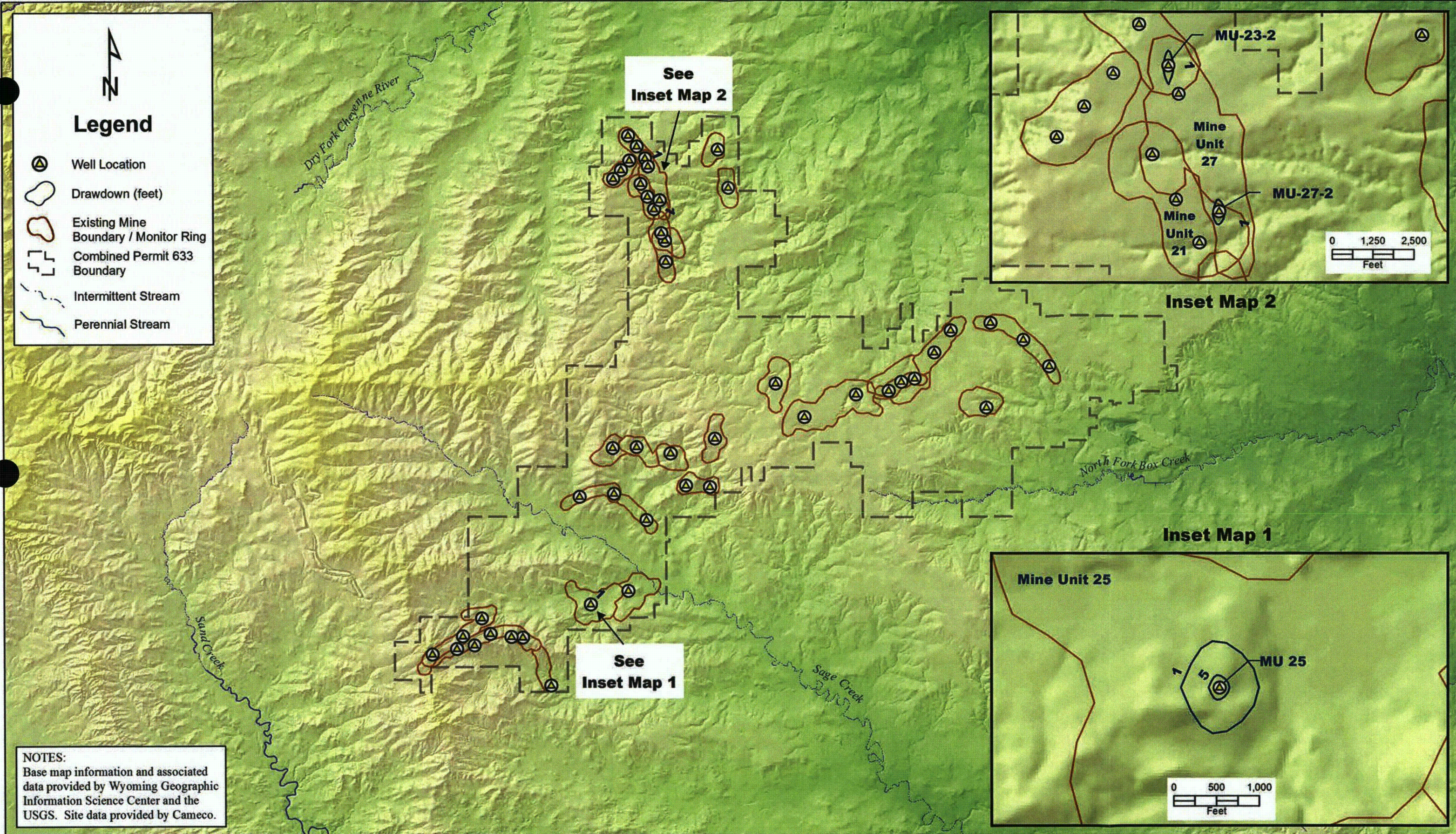
**FIGURE:**  
 457





### Legend

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
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0 4,750 9,500 19,000  
 Feet  
 1 inch = 9,500 feet  
 State Plane NAD 27

PROJECT 40100612  
 DATE: 9/10/2013  
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 REVIEWED BY: BLEWIS  
 DOCUMENT NAME AND PATH

**Maximum O4-Sand (70-Sand) Drawdown (Layer 11),  
 Development Year 6**

Revised 10/15/13







SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

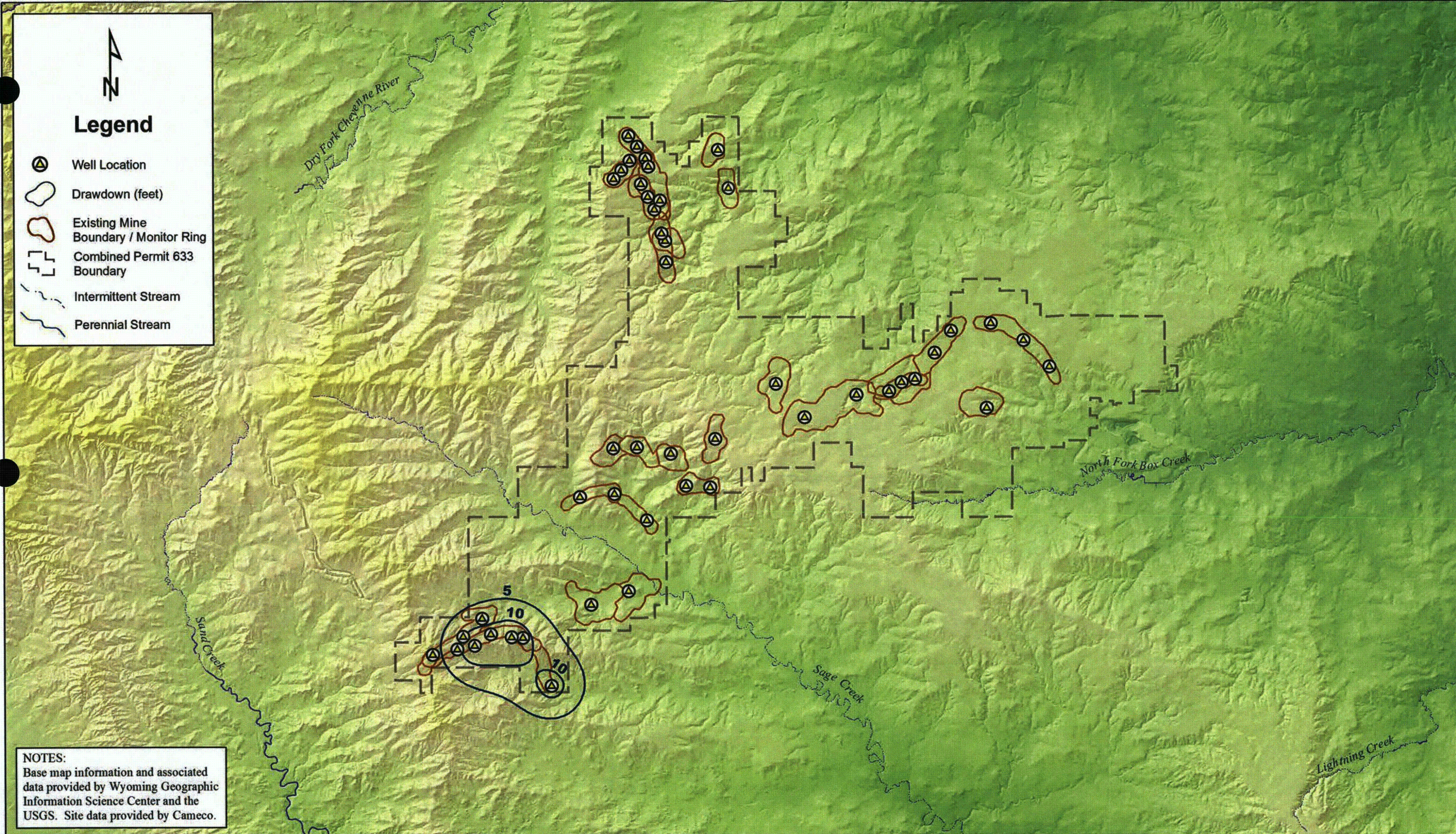
**FIGURE:**  
 46





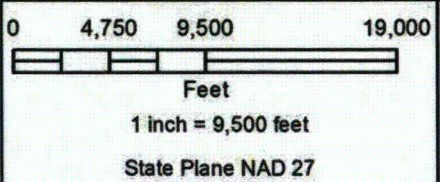
### Legend

-  Well Location
-  Drawdown (feet)
-  Existing Mine Boundary / Monitor Ring
-  Combined Permit 633 Boundary
-  Intermittent Stream
-  Perennial Stream



**NOTES:**  
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PROJECT 40100612  
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 DOCUMENT NAME AND PATH

**Maximum O3-Sand (60-Sand) Drawdown (Layer 13),  
 Development Year 14**

Revised 10/15/13

SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

**FIGURE:  
 479**