

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

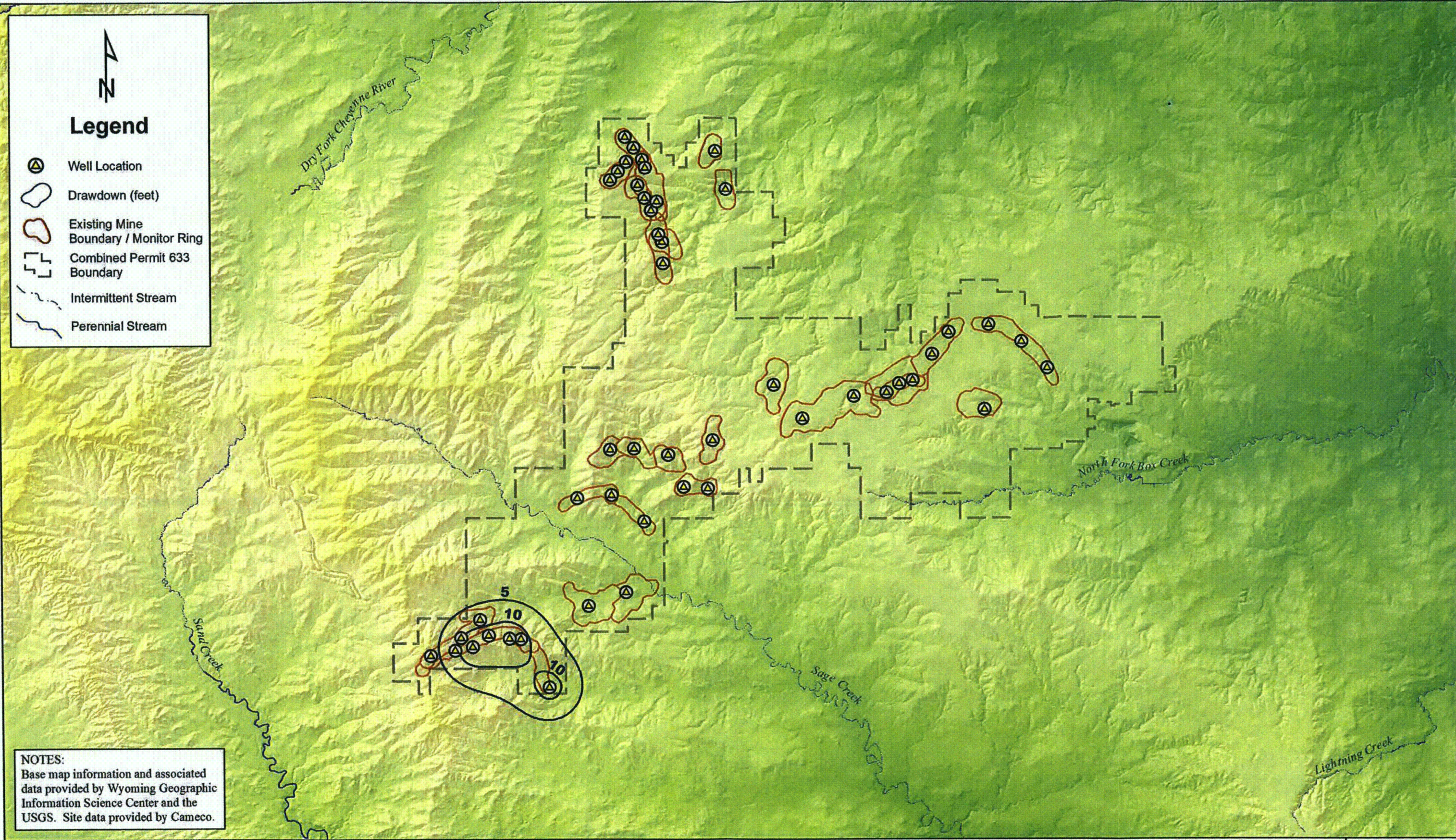
AQUI-VER, INC.
Hydrogeology, Water Resources & Data Services

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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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:
4B**



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

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DOCUMENT NAME AND PATH

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


Revised 10/15/13

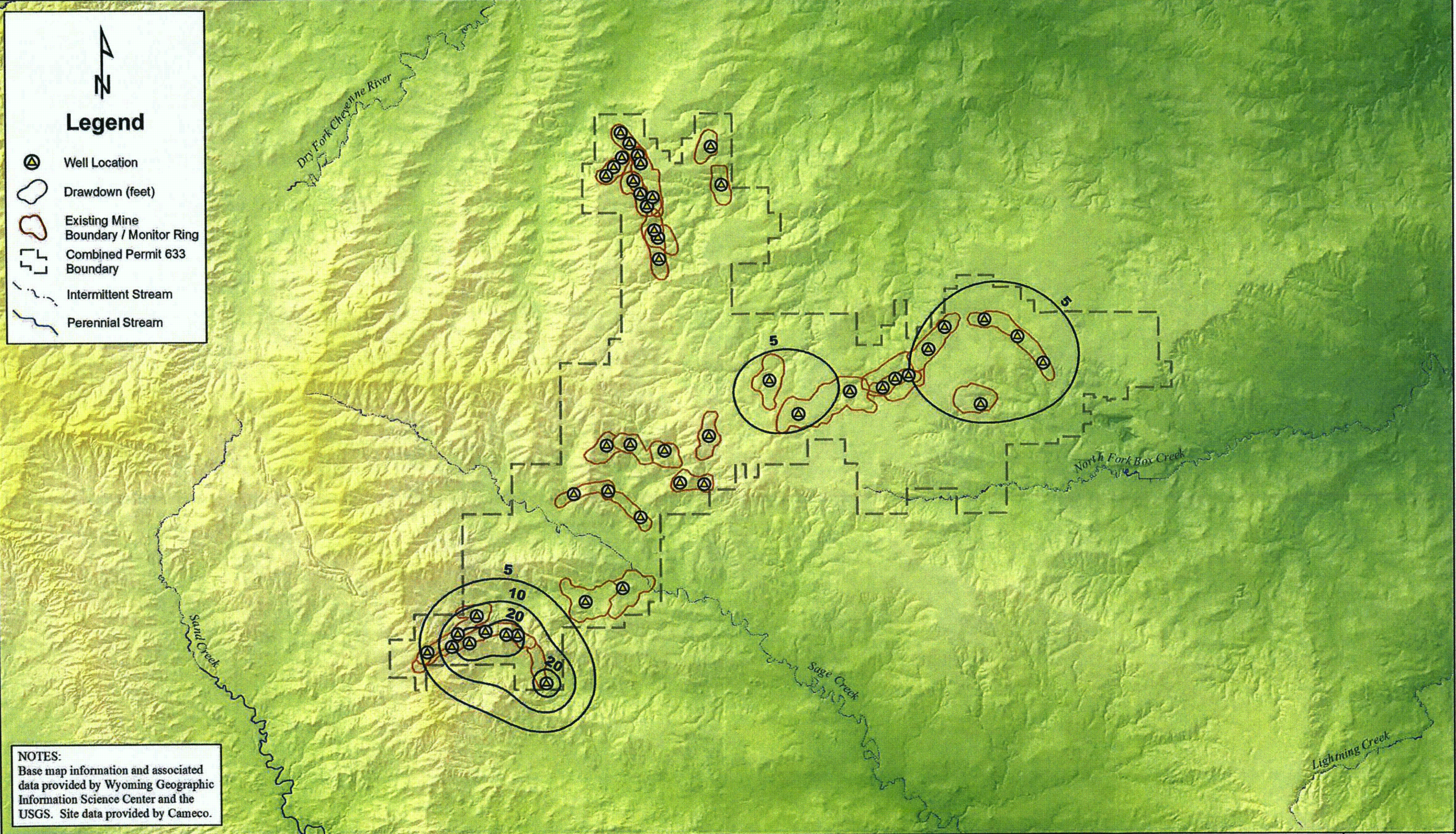
SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

FIGURE:
479


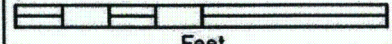


Legend

-  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.

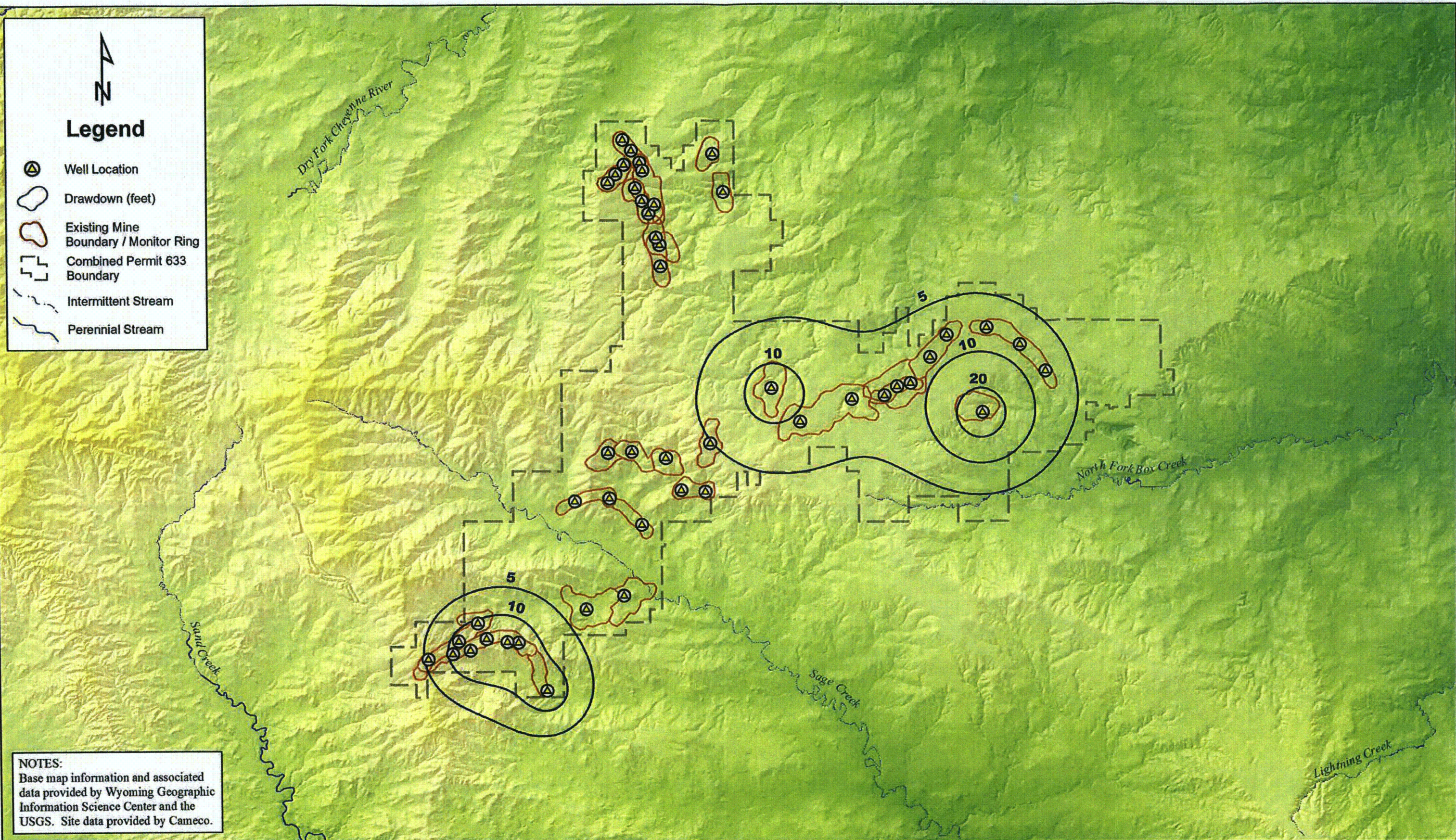
 Hydrogeology, Water Resources & Data Services	0 4,750 9,500 19,000  Feet 1 inch = 9,500 feet State Plane NAD 27	PROJECT 40100612 DATE: 9/10/2013 DRAWN BY: CLIN REVIEWED BY: BLEWIS DOCUMENT NAME AND PATH	<p>Maximum O2-Sand (50-Sand) Drawdown (Layer 15), Development Year 15</p> <p>SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING</p>	<p>FIGURE:</p> <p>4810</p>
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Revised 10/15/13



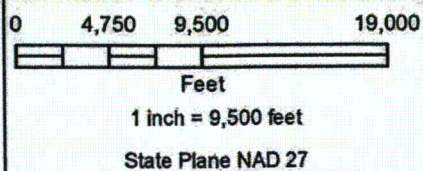
Legend

-  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 O2-Sand (40-Sand) Drawdown (Layer 17),
Development Year 13**

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FIGURE:
4-91



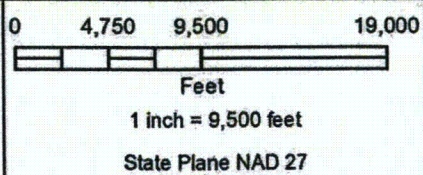
Legend

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



NOTES:
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**Maximum O1-Sand (30-Sand) Drawdown (Layer 19),
Development Year 13**

Revised 10/15/13

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

FIGURE:
44102



NOTES:
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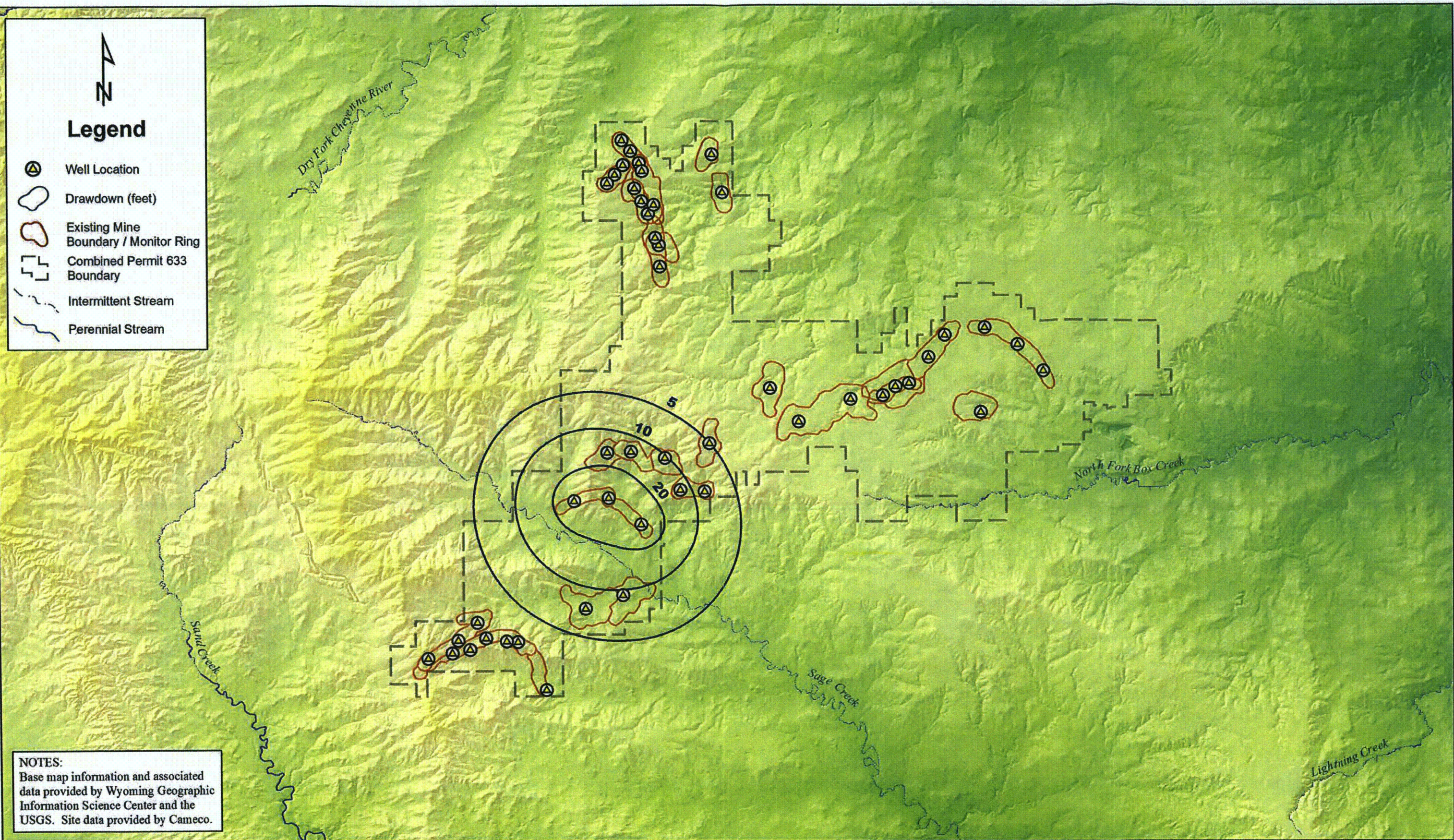
AQUI-VER, INC.
Hydrogeology, Water Resources & Data Services

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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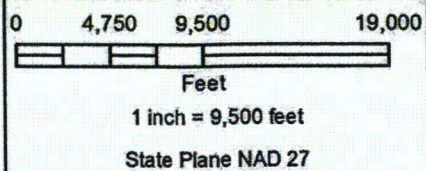
**Maximum O1-Sand (20-Sand) Drawdown (Layer 21),
Development Year 13**
Revised 10/15/13
SMITH RANCH - HIGHLAND - REYNOLDS RANCH IMPACT ASSESMENT / CONVERSE COUNTY - WYOMING

**FIGURE:
44113**



NOTES:
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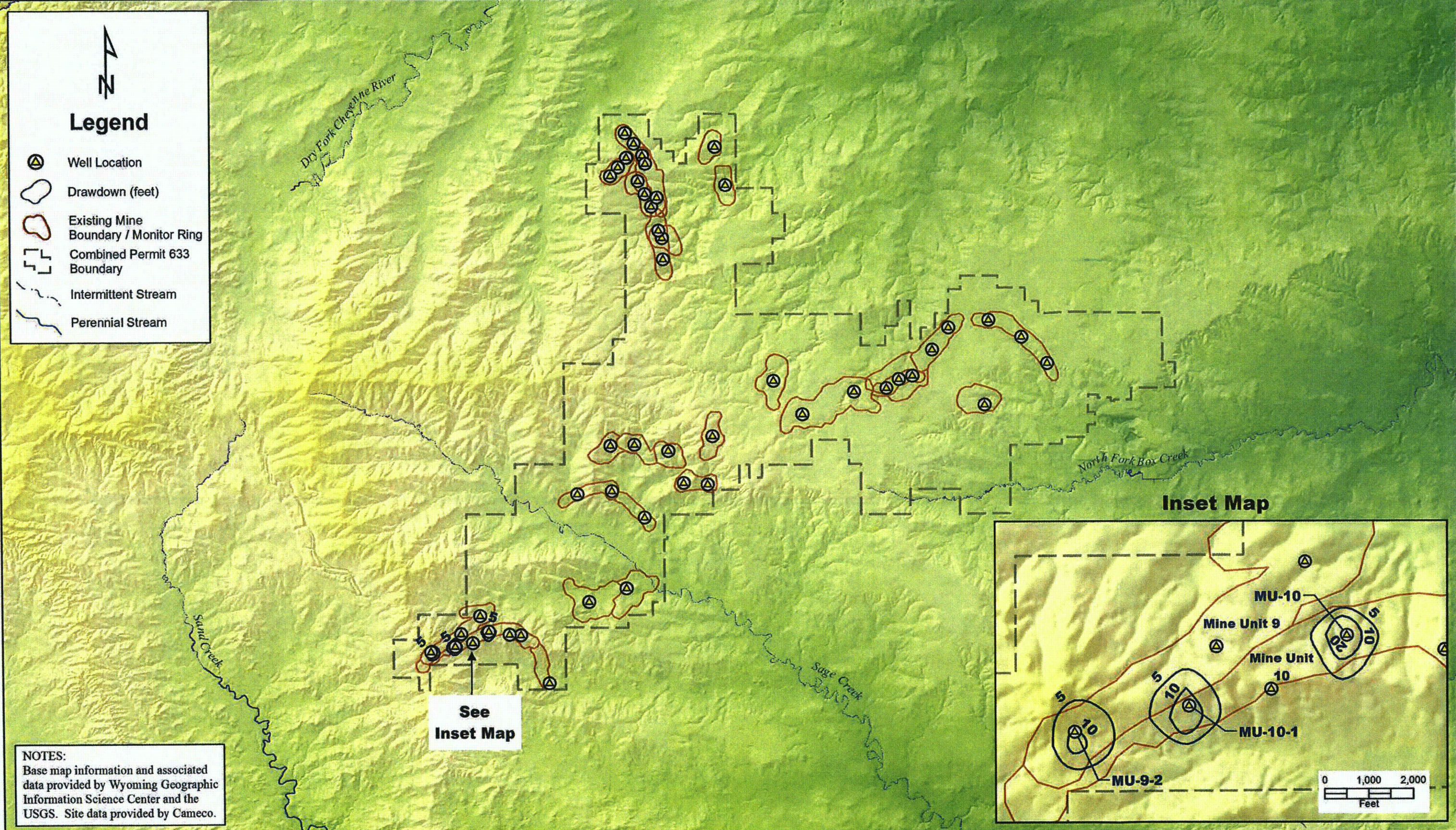
PROJECT 40100612
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DOCUMENT NAME AND PATH

**Maximum M-Sand Drawdown (Layer 23),
Development Year 4**

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

Revised 10/15/13

FIGURE:
4124



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Maximum K-Sand Drawdown (Layer 25), Development Year 4

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

Revised 10/15/13

FIGURE:
4115

5. REFERENCES

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AQUI-VER, INC.



ATTACHMENT A
Groundwater Model Design and MODFLOW Production Well
Information

Table A-1. MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-D_Ext	383175	878916	71	1
MU-1	364027	868784	41	1
MU-1-2	361487	868944	41	1
MU-4-1	350170	867746	17	1
MU-4-2	357294	865298	17	1
MU-4	353856	868072	17	1
MU-3	356259	873001	15	1
MU-K	371106	878954	15	1
MU-15	351362	856318	12	1
MU-15A	355344	857806	12	1
MU-I	393554	877123	8	1
MU-J	371135	879695	8	1
MU-10-1	337106	851712	8	1
MU-9-2	334514	851138	8	1
MU-10	340564	853166	8	1
MU-C	338571	897736	3	1
MU-C-2	341038	892775	3	1
MU-2	359872	872315	3	1
MU-E	384500	879855	3	1
MU-H-1	393983	886107	3	1
MU-H-2	400241	881500	3	1
MU-H	397503	884282	3	1
MU-F	379690	878540	1	1
MU-F-2	374171	876143	1	1
MU-C	338571	897736	88	2
MU-C-2	341038	892775	88	2
MU-D	385930	880214	74	2
MU-1	364027	868784	56	2
MU-1-2	361487	868944	56	2
MU-4-1	350170	867746	37	2
MU-4-2	357294	865298	37	2
MU-4	353856	868072	37	2
MU-3	356259	873001	15	2
MU-K	371106	878954	15	2
MU-E	384500	879855	15	2
MU-15	351362	856318	9	2
MU-15A	355344	857806	9	2
MU-7	353719	872880	7	2
MU-F	379690	878540	6	2
MU-F-2	374171	876143	6	2
MU-9-1	339740	854942	4	2
MU-10-2	344096	852911	4	2

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate gpm	Development Year
MU-10-1	337106	851712	4	2
MU-9	337785	853134	4	2
MU-9-2	334514	851138	4	2
MU-10	340564	853166	4	2
MU-I	393554	877123	2	2
MU-J	371135	879695	2	2
MU-H-1	393983	886107	1	2
MU-H-2	400241	881500	1	2
MU-H	397503	884282	1	2
MU-E	384500	879855	127	3
MU-2	359872	872315	119	3
MU-10-1	337106	851712	60	3
MU-9-2	334514	851138	60	3
MU-10	340564	853166	60	3
MU-4-1	350170	867746	37	3
MU-4-2	357294	865298	37	3
MU-4	353856	868072	37	3
MU-27	357558	902694	23	3
MU-27-2	358790	899114	23	3
MU-3	356259	873001	15	3
MU-K	371106	878954	15	3
MU-15	351362	856318	9	3
MU-15A	355344	857806	9	3
MU-7	353719	872880	7	3
MU-9-1	339740	854942	4	3
MU-F	379690	878540	4	3
MU-10-2	344096	852911	4	3
MU-F-2	374171	876143	4	3
MU-9	337785	853134	4	3
MU-I	393554	877123	2	3
MU-J	371135	879695	2	3
MU-H-1	393983	886107	1	3
MU-H-2	400241	881500	1	3
MU-H	397503	884282	1	3
MU-E	384500	879855	154	4
MU-2	359872	872315	121	4
MU-F	379690	878540	74	4
MU-F-2	374171	876143	74	4
MU-10-1	337106	851712	52	4
MU-9-2	334514	851138	52	4
MU-10	340564	853166	52	4
MU-4-1	350170	867746	39	4
MU-4-2	357294	865298	39	4

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-4	353856	868072	39	4
MU-27	357558	902694	24	4
MU-27-2	358790	899114	24	4
MU-3	356259	873001	17	4
MU-K	371106	878954	17	4
MU-15A	355344	857806	11	4
MU-7	353719	872880	9	4
MU-9-1	339740	854942	6	4
MU-10-2	344096	852911	6	4
MU-11-1	338966	852085	6	4
MU-11-2	347107	847832	6	4
MU-11	342890	852966	6	4
MU-9	337785	853134	6	4
MU-I	393554	877123	5	4
MU-J	371135	879695	5	4
MU-15	351362	856318	216	5
MU-2	359872	872315	110	5
MU-F	379690	878540	102	5
MU-F-2	374171	876143	102	5
MU-10-1	337106	851712	31	5
MU-9-2	334514	851138	31	5
MU-10	340564	853166	31	5
MU-27	357558	902694	19	5
MU-27-2	358790	899114	19	5
MU-K	371106	878954	12	5
MU-E	384500	879855	10	5
MU-15A	355344	857806	8	5
MU-7	353719	872880	8	5
MU-3	356259	873001	2	5
MU-9-1	339740	854942	1	5
MU-10-2	344096	852911	1	5
MU-11-1	338966	852085	1	5
MU-11-2	347107	847832	1	5
MU-11	342890	852966	1	5
MU-9	337785	853134	1	5
MU-I	393554	877123	0	5
MU-J	371135	879695	0	5
MU-15	351362	856318	217	6
MU-2	359872	872315	110	6
MU-3	356259	873001	85	6
MU-27	357558	902694	79	6
MU-27-2	358790	899114	79	6
MU-10-1	337106	851712	31	6

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-9-2	334514	851138	31	6
MU-10	340564	853166	31	6
MU-H-1	393983	886107	15	6
MU-H-2	400241	881500	15	6
MU-H	397503	884282	15	6
MU-21-1	356755	900849	12	6
MU-21	357479	899484	12	6
MU-21-2	358191	898172	12	6
MU-15A	355344	857806	8	6
MU-7	353719	872880	8	6
MU-F	379690	878540	6	6
MU-F-2	374171	876143	6	6
MU-K	371106	878954	5	6
MU-I	393554	877123	2	6
MU-J	371135	879695	2	6
MU-9-1	339740	854942	1	6
MU-10-2	344096	852911	1	6
MU-11-1	338966	852085	1	6
MU-11-2	347107	847832	1	6
MU-11	342890	852966	1	6
MU-9	337785	853134	1	6
MU-15	351362	856318	216	7
MU-3	356259	873001	122	7
MU-2	359872	872315	110	7
MU-27	357558	902694	79	7
MU-27-2	358790	899114	79	7
MU-H-1	393983	886107	65	7
MU-H-2	400241	881500	65	7
MU-H	397503	884282	65	7
MU-10-1	337106	851712	31	7
MU-9-2	334514	851138	31	7
MU-10	340564	853166	31	7
MU-21-1	356755	900849	12	7
MU-21	357479	899484	12	7
MU-21-2	358191	898172	12	7
MU-15A	355344	857806	8	7
MU-7	353719	872880	8	7
MU-K	371106	878954	5	7
MU-I	393554	877123	2	7
MU-J	371135	879695	2	7
MU-9-1	339740	854942	1	7
MU-10-2	344096	852911	1	7
MU-11-1	338966	852085	1	7

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-11-2	347107	847832	1	7
MU-11	342890	852966	1	7
MU-9	337785	853134	1	7
MU-3	356259	873001	162	8
MU-15A	355344	857806	103	8
MU-27	357558	902694	81	8
MU-27-2	358790	899114	81	8
MU-2	359872	872315	79	8
MU-H-1	393983	886107	68	8
MU-H-2	400241	881500	68	8
MU-H	397503	884282	68	8
MU-22	364588	904885	45	8
MU-10-1	337106	851712	34	8
MU-9-2	334514	851138	34	8
MU-10	340564	853166	34	8
MU-7	353719	872880	21	8
MU-I	393554	877123	5	8
MU-J	371135	879695	5	8
MU-9-1	339740	854942	4	8
MU-10-2	344096	852911	4	8
MU-11-1	338966	852085	4	8
MU-11-2	347107	847832	4	8
MU-11	342890	852966	4	8
MU-9	337785	853134	4	8
MU-3	356259	873001	152	9
MU-15A	355344	857806	88	9
MU-H-1	393983	886107	68	9
MU-H-2	400241	881500	68	9
MU-H	397503	884282	68	9
MU-21-1	356755	900849	54	9
MU-21	357479	899484	54	9
MU-21-2	358191	898172	54	9
MU-9-1	339740	854942	49	9
MU-10-2	344096	852911	49	9
MU-9	337785	853134	49	9
MU-22	364588	904885	45	9
MU-7	353719	872880	21	9
MU-11-1	338966	852085	8	9
MU-11-2	347107	847832	8	9
MU-11	342890	852966	8	9
MU-I	393554	877123	5	9
MU-J	371135	879695	5	9
MU-7	353719	872880	114	10

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-3	356259	873001	102	10
MU-K	371106	878954	83	10
MU-21-1	356755	900849	54	10
MU-21	357479	899484	54	10
MU-21-2	358191	898172	54	10
MU-22	364588	904885	45	10
MU-H-1	393983	886107	39	10
MU-H-2	400241	881500	39	10
MU-H	397503	884282	39	10
MU-11-1	338966	852085	36	10
MU-11-2	347107	847832	36	10
MU-11	342890	852966	36	10
MU-9-1	339740	854942	30	10
MU-10-2	344096	852911	30	10
MU-9	337785	853134	30	10
MU-I	393554	877123	5	10
MU-J	371135	879695	5	10
MU-K	371106	878954	190	11
MU-7	353719	872880	75	11
MU-11-1	338966	852085	71	11
MU-11-2	347107	847832	71	11
MU-11	342890	852966	71	11
MU-21-1	356755	900849	54	11
MU-21	357479	899484	54	11
MU-21-2	358191	898172	54	11
MU-I	393554	877123	52	11
MU-22	364588	904885	45	11
MU-J	371135	879695	9	11
MU-I	393554	877123	212	12
MU-K	371106	878954	161	12
MU-21-1	356755	900849	63	12
MU-21	357479	899484	63	12
MU-21-2	358191	898172	63	12
MU-11-1	338966	852085	59	12
MU-11-2	347107	847832	59	12
MU-11	342890	852966	59	12
MU-I	393554	877123	169	13
MU-22	364588	904885	163	13
MU-11-1	338966	852085	51	13
MU-11-2	347107	847832	51	13
MU-11	342890	852966	51	13
MU-K	371106	878954	25	13
MU-23-2	357243	903548	20	13

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-23-1	355414	905938	20	13
MU-23	356362	904814	20	13
MU-J	371135	879695	9	13
MU-22	364588	904885	163	14
MU-J	371135	879695	153	14
MU-11-1	338966	852085	51	14
MU-11-2	347107	847832	51	14
MU-11	342890	852966	51	14
MU-23-2	357243	903548	20	14
MU-23-1	355414	905938	20	14
MU-23	356362	904814	20	14
MU-J	371135	879695	169	15
MU-22	364588	904885	163	15
MU-11-1	338966	852085	21	15
MU-11-2	347107	847832	21	15
MU-11	342890	852966	21	15
MU-23-2	357243	903548	20	15
MU-23-1	355414	905938	20	15
MU-23	356362	904814	20	15
MU-22	364588	904885	154	16
MU-24	354675	902307	11	16
MU-24-1	355540	903307	11	16
MU-24-2	353831	901375	11	16
MU-23-2	357243	903548	11	16
MU-23-1	355414	905938	11	16
MU-23	356362	904814	11	16
MU-23-2	357243	903548	54	17
MU-23-1	355414	905938	54	17
MU-23	356362	904814	54	17
MU-24	354675	902307	20	17
MU-24-1	355540	903307	20	17
MU-24-2	353831	901375	20	17
MU-23-2	357243	903548	54	18
MU-23-1	355414	905938	54	18
MU-23	356362	904814	54	18
MU-24	354675	902307	20	18
MU-24-1	355540	903307	20	18
MU-24-2	353831	901375	20	18
MU-25	364968	904467	60	19
MU-23-2	357243	903548	54	19
MU-23-1	355414	905938	54	19
MU-23	356362	904814	54	19
MU-25	364968	904467	60	20

Table A-1 (Con't). MODFLOW Well Locations, Pumping Rates, and Period of Operation

Well Name	Easting (feet)	Northing (feet)	Pumping Rate	Development
			gpm	Year
MU-24	354675	902307	54	20
MU-24-1	355540	903307	54	20
MU-24-2	353831	901375	54	20
MU-25	364968	904467	60	21
MU-24	354675	902307	54	21
MU-24-1	355540	903307	54	21
MU-24-2	353831	901375	54	21
MU-25	364968	904467	60	22
MU-24	354675	902307	54	22
MU-24-1	355540	903307	54	22
MU-24-2	353831	901375	54	22
MU-25	364968	904467	163	23
MU-26	366054	900427	60	23
MU-25	364968	904467	163	24
MU-26	366054	900427	60	24
MU-25	364968	904467	163	25
MU-26	366054	900427	60	25
MU-25	364968	904467	163	26
MU-26	366054	900427	60	26
MU-25	364968	904467	163	27
MU-28	358932	895625	30	27
MU-28-2	359419	892589	30	27
MU-26	366054	900427	163	28
MU-28	358932	895625	30	28
MU-28-2	359419	892589	30	28
MU-26	366054	900427	163	29
MU-28	358932	895625	30	29
MU-28-2	359419	892589	30	29
MU-26	366054	900427	163	30
MU-28	358932	895625	30	30
MU-28-2	359419	892589	30	30
MU-26	366054	900427	163	31
MU-28	358932	895625	30	31
MU-28-2	359419	892589	30	31
MU-28	358932	895625	82	32
MU-28-2	359419	892589	82	32
MU-28	358932	895625	82	33
MU-28-2	359419	892589	82	33