APPENDIX H

WATER RIGHTS/BENEFICIAL USES INFORMATION

Table H-1
Water Rights Located Within a 1-Mile Radius of Proposed Gas Well Sites

Natural Gas Wells Proposed on Federal Lands	Stream Name	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use	Net Rate Absolute (cfs)	Net Vol Abs (acre-feet)	Net Rate Condtional (cfs)	Structure
Leon Lake #5	Surface Creek	Carol Spring	12 S	94 W	23	NW	SE	SE	Domestic and Livestock	0.03	0	0	Spring
Leon Lake #4/ Leon Lake #5	Surface Creek	Cole Reservoir #5	12 S	94 W	13				Irrigation	0	116.8	0	Reservoir
Leon Lake #4	Surface Creek	Cole Reservoir #4	12 S	94 W	12				Irrigation	0	29.5	0	Reservoir
Bull Park	Terror Creek	Garvin Mesa Pipeline Co	12 S	91 W	32	SW	NE	NW	Domestic	0.04	0	25	Seep/Pipeline

Table H-2
Water Rights Downstream of the Eight Proposed Wells

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Bear Creek	Burtard Ditch	12 S	90 W	30	NW	SW	NW	IRR	2.5	0	0	0	0
Hubbard Creek	Long Park Ditch	12 S	90 W	18	NE	SW	NE	IRR	5	0	0	0	0
Hubbard Creek	Pilot Knob Reservoir	12 S	90 W	18	NE	SE	NW	IRRDOM	0	0	0	0	0
Hubbard Creek	Pilot Knob Reservoir	12 S	90 W	18	NE	SE	NW	DOM	0	5	0	0	0
Hubbard Creek	Willow Creek Ditch	12 S	91 W					IRR	0.62	0	0	0	0
Hubbard Creek	West Hubbard Ditch	12 S	91 W	6	SE	SE	NW	IRR	9	0	0	0	0
Hubbard Creek	Wade Allen Ditch	12 S	91 W	10	SE	NW	NE	IRR	3.5	0	0	0	0
Hubbard Creek	Terror Ditch Extension	12 S	91 W	6	SE	SW	SE	IRR	6	0	0	0	0
Hubbard Creek	Pilot Knob Ditch	12 S	91 W	12	SW	SW	SE	IRR	1	0	0	0	0
Hubbard Creek	Alt Bill Mcmillan Ditch	12 S	91 W	9	SE	SW	SW	IRR	5	0	0	0	0
Hubbard Creek	Carter Ditch	12 S	91 W	24	NE	NW	SE	IRR	2.12	0	0	0	0
Hubbard Creek	Carl Galpin Ditch	12 S	91 W	12	SW	SE	NW	IRR	3	0	0	0	0
Hubbard Creek	Picnic Park Res	12 S	91 W	1	SE	SE	NE	IRR	0	0	0	0	0
Hubbard Creek	Bill Mcmillan Res	12 S	91 W	9	SW	NW	SW	IRR	0	0	0	0	0
Hubbard Creek	Bruce Park Reservoir	12 S	91 W	28	SW	SE	SE	IRR	0	81.5	0	0	0
Hubbard Creek	Bruce Park Reservoir	12 S	91 W	28	SW	SE	SE	IRR	0	550.49	0	0	0
Hubbard Creek	Bill Mcmillan Sup Ditch	12 S	91 W	17	NE	NW	SW	IRROTH	0	0	5	0	0
Hubbard Creek	Hubbard Cr Feeder D No 1	12 S	91 W	7	NE	NW	NW	IRR	0	0	30	0	0
Hubbard Creek	Grand Mesa Canal Hgt 2	12 S	91 W	4	SE	SW	SW	IRR	0	0	200	0	0
Hubbard Creek	Terror Ditch Extension	12 S	91 W	6	SE	SW	SE	IRR	23	0	0	0	0
Hubbard Creek	Hubbard Creek	12 S	91 W	14	SE	NW	NW	MIN	3	0	0	0	0
Hubbard Creek	Wade Allen Ditch	12 S	91 W	10	SE	NW	NE	IRR	3.5	0	0	0	0
Hubbard Creek	Hubbard Cr Feeder D No 2	12 S	92 W					IRR	0	0	30	0	0
Hubbard Creek	Mayes Ditch	13 S	91 W	14	NE	NE	NE	IRR	0.375	0	0	0	0
Hubbard Creek	Majnik Ditch	13 S	91 W	14	NE	NW	NE	IRR	1.5	0	0	0	0
Hubbard Creek	Blue Ribbon Ditch No 1	13 S	91 W	2	NW	NW	NE	INDDOM	2	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRRIND	0.294	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRRDOM	1.044	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRR	1.594	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRR	0.344	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRR	0.322	0	0	0	0
Hubbard Creek	Deertrail Ditch	13 S	91 W	11	NE	SW	NW	IRR	1.25	0	0	0	0
Hubbard Creek	Blue Ribbon Well	13 S	91 W	2	NW	NW	NE	INDD	0.033	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
								OM					
Hubbard Creek	Blue Ribbon Res No 1	13 S	91 W	2	NW	NW	SE	INDD OM	0	10.2	0	0	0
Surface Creek	Additional Spring No2	12 S	93 W	3	NW	NW	NW	MUND OMST K	0.1	0	0	0	0
Surface Creek	Doughty Res No 2	12 S	93 W	6	NE			IRRM UNDO M	0	30	0	0	0
Surface Creek	Hale Res	12 S	93 W	4	NW			IRR	0	49.03	0	0	0
Surface Creek	Little Giant No 1 Res	12 S	93 W	4	NE	SE	NW	IRR	0	48	0	0	0
Surface Creek	Marcott Park Res	12 S	93 W	5	NW	NW		IRR	0	330.35	0	0	0
Surface Creek	Trickle Reservoir	12 S	93 W	4	SW	SW	SW	IRR	0	46	0	0	0
Surface Creek	Trickle Reservoir	12 S	93 W	4	SW	SW	SW	IRR	0	15	0	0	0
Surface Creek	Greenback Grave Res	12 S	93 W	5				IRR	0	130	0	66.44	0
Surface Creek	Last Chance Res	12 S	93 W					IRR	0	24.8	0	0	0
Surface Creek	Additional Spring No3	12 S	93 W	4	NE	NW	SE	MUND OM	0.2	0	0	0	0
Surface Creek	Additional Spring No4	12 S	93 W	4	NE	SW	NE	MUND OM	0.1	0	0	0	0
Surface Creek	Additional Spring No9	12 S	93 W	6	SE	SE	SE	MUND OM	0.1	0	0	0	0
Surface Creek	Additional Spring No5	12 S	93 W	4	NE	SW	NE	MUND OM	0.15	0	0	0	0
Surface Creek	Klondyke Ditch	12 S	94 W	16				IRR	0.27	0	0	0	0
Surface Creek	Lone Pine Ditch	12 S	94 W	34	NE	SE	SE	IRR	12.25	0	0	0	0
Surface Creek	Lone Pine Ditch	12 S	94 W	34	NE	SE	SE	IRR	38.75	0	0	0	0
Surface Creek	Lone Pine Ditch	12 S	94 W	34	NE	SE	SE	DOM	2	0	0	0	0
Surface Creek	Sooner Ditch	12 S	94 W	26	NE	SW	SE	IRR	0	0	0	0	0
Surface Creek	Sooner Ditch	12 S	94 W	26	NE	SW	SE	IRR	15	0	0	0	0
Surface Creek	Sooner Ditch	12 S	94 W	26	NE	SW	SE	DOM	1.5	0	0	0	0
Surface Creek	Cedar Mesa Ditch	12 S	94 W	26	NE	SE	NE	IRR	16.075	0	0	0	0
Surface Creek	Cedar Mesa Ditch	12 S	94 W	26	NE	SE	NE	IRR	10	0	0	0	0
Surface Creek	Cedar Mesa Ditch	12 S	94 W	26	NE	SE	NE	DOM	2	0	0	0	0
Surface Creek	Cedar Mesa Ditch	12 S	94 W	26	NE	SE	NE	DOM	24	0	0	0	0
Surface Creek	Knox Res Feeder Ditch	12 S	94 W	3	NE	SE	SE	IRR	10	0	0	0	0
Surface Creek	Additional Spring No 12	12 S	94 W	1	NW	NW	NE	MUN	0	0	0	0	0
Surface Creek	Elk Park Reservoir	12 S	94 W	3	NE	NW	NW	IRR	0	160	0	0	0
Surface Creek	Weir Park Reservoir	12 S	94 W	3	SW	NE	SE	IRR	0	8	0	0	0
Surface Creek	Carbonate Camp Res No 3	12 S	94 W	27				IRR	0	15.5	0	0	0
Surface Creek	Gregg No 1 Res	12 S	94 W					IRR	0	45	0	0	0
Surface Creek	Park Reservoir	12 S	94 W	3	NE			IRR	0	898.4	0	0	0
Surface Creek	Fish Lake Reservoir	12 S	94 W	3	NW	SE	SW	IRR	0	45	0	0	0
Surface Creek	Fish Lake Reservoir	12 S	94 W	3	NW	SE	SW	IRR	0	90	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Knox Reservoir	12 S	94 W	3	NE	SW	NE	IRR	0	255	0	0	0
Surface Creek	Weir Park Reservoir	12 S	94 W	3	SW	NE	SE	IRR	0	32	0	0	0
Surface Creek	Park Reservoir	12 S	94 W	3	NE			IRR	0	253.78	0	0	0
Surface Creek	Park Reservoir	12 S	94 W	3	NE			IRR	0	143	0	0	0
Surface Creek	Park Reservoir	12 S	94 W	3	NE			IRR	0	2083	0	0	0
Surface Creek	Gregg No 2 Res	12 S	94 W					IRR	0	5.4	0	0	0
Surface Creek	Little Jonah Reservoir	12 S	94 W	3				IRR	0	12	0	0	0
Surface Creek	Carbonate Camp Res No 1	12 S	94 W	18	NE			IRR	0	0	0	0	0
Surface Creek	Carbonate Camp Res No 2	12 S	94 W	12				IRR	0	0	0	0	0
Surface Creek	Carbonate Camp Res No 4	12 S	94 W	12				IRR	0	0	0	0	0
Surface Creek	Hamilton Reservoir	12 S	94 W	14	SE	NW	NE	IRR	0	0	0	0	0
Surface Creek	Z W Reservoir	12 S	94 W	3	SE			IRR	0	0	0	0	0
Surface Creek	Morterman Reservoir	12 S	94 W	2	NE	NW	NE	IRR	0	0	0	0	0
Surface Creek	Tomlinson Pond	12 S	94 W	26	SW	NW	SW	IRRSTK	0	0	0	0	0
Surface Creek	Dreyfus Res	12 S	94 W	11	SE	SW	NW	IRR	0	0	0	0	0
Surface Creek	Highnote Spring Pipe	12 S	94 W	21	NE	SE	NW	DOM	0.02	0	0	0	0
Surface Creek	Carol Spring	12 S	94 W	23	NW	SE	SE	DOMSTK	0.03	0	0	0	0
Surface Creek	Cabin Lake Reservoir	12 S	94 W	3	NW	SE	SE	IRR	0	18	0	0	0
Surface Creek	Cabin Lake Reservoir	12 S	94 W	3	NW	SE	SE	IRR	0	40	0	0	0
Surface Creek	Cole Res No 5	12 S	94 W	13				IRR	0	116.8	0	0	0
Surface Creek	Deserted Park Res	12 S	94 W	2	NE	NW	NW	IRR	0	81	0	0	0
Surface Creek	Dreyfus Res	12 S	94 W	11	SE	SW	NW	IRR	0	44.01	0	0	0
Surface Creek	Cole Res No 4	12 S	94 W	12				IRR	0	29.5	0	0	0
Surface Creek	Tomlinson Ditch And Pond	12 S	94 W	26	SW	NW	NE	IRRSTK	0	0	0	0	0
Surface Creek	Hidden Spring Pl	12 S	94 W	27	NW	SE	SE	DOM	0	0	0	0	0
Surface Creek	Milk Creek	12 S	94 W	11	NE	NE	NW	MIN	1	0	0	0	0
Surface Creek	Tomlinson Ditch And Pl	12 S	94 W	26	SW	NW	NE	IRRSTK	0	0	0	0	0
Surface Creek	Ruby Spring	12 S	94 W	25	NE	NW	SW	DOM	0.03	0	0	0	0
Surface Creek	Rose Ditch	13 S	94 W	17				IRR	3.37	0	0	0	0
Surface Creek	Horseshoe Ditch	13 S	94 W	17	SE	SW	NE	IRR	2.12	0	0	0	0
Surface Creek	Jackson Ditch	13 S	94 W	17	NE	SE	NW	IRR	0	0	0	0	0
Surface Creek	Metzger Ditch	13 S	94 W	9	NW	SE	NW	IRR	0.75	0	0	0	0
Surface Creek	Paradise Ditch	13 S	94 W	4	SE	NE	SE	IRR	2	0	0	0	0
Surface Creek	Paradise Ditch	13 S	94 W	4	SE	NE	SE	IRR	1.5	0	0	0	0
Surface Creek	Harris Ditch	13 S	94 W	4	SE	SW	NE	IRR	1	0	0	0	0
Surface Creek	Rose Ditch Ex	13 S	94 W	17	SW	SE	NE	IRR	4	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	0.5	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	0	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	0	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Paradise Ditch	13 S	94 W	4	SE	NE	SE	IRR	3.87	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	4	0	0	0	0
Surface Creek	Beeson Ditch	13 S	94 W	9	NW	NE	NE	IRR	3.02	0	0	0	0
Surface Creek	Beeson Ditch	13 S	94 W	9	NW	NE	NE	DOM	0.5	0	0	0	0
Surface Creek	Beeson Ditch	13 S	94 W	9	NW	NE	NE	IRR	0.85	0	0	0	0
Surface Creek	Beeson Ditch	13 S	94 W	9	NW	NE	NE	IRR	0.5	0	0	0	0
Surface Creek	C And D Ditch	13 S	94 W	17	NE	NE	SE	IRR	2.62	0	0	0	0
Surface Creek	Horseshoe Ditch	13 S	94 W	17	SE	SW	NE	IRR	0.55	0	0	0	0
Surface Creek	Horseshoe Ditch	13 S	94 W	17	SE	SW	NE	IRR	6.57	0	0	0	0
Surface Creek	Cedaredge Pipeline	13 S	94 W	16	NW	NW	NW	MUNDOMPWROTH	1.05	0	0	0	0.75
Surface Creek	Cold Water Ditch	13 S	94 W	17				IRR	1.62	0	0	0	0
Surface Creek	Gregg Ditch	13 S	94 W	9	SW	SW	NW	IRR	2	0	0	0	0
Surface Creek	Gurney Ditch	13 S	94 W	9	SW	SW	SW	IRR	2.37	0	0	0	0
Surface Creek	Gurney Ditch	13 S	94 W	9	SW	SW	SW	IRR	1.58	0	0	0	0
Surface Creek	Horseshoe Ditch	13 S	94 W	17	SE	SW	NE	IRR	2	0	0	0	0
Surface Creek	Carbonate Camp Ditch	13 S	94 W	4				IRR	1.87	0	0	0	0
Surface Creek	Cox Lake Ditch	13 S	94 W	21	SW	SE	NE	RECFIS	1	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	7	0	0	0	0
Surface Creek	Wild Cherry Ext Ditch	13 S	94 W	17	SW	SE	NE	IRR	0.5	0	0	0	0
Surface Creek	Petersen Water Diversion	13 S	94 W	9	NW	SW	SW	IRRFIS	0	0	0	0	0
Surface Creek	Cook Ditch 2nd Enlt	13 S	94 W	28	NW	NW	NE	IRR	1	0	0	0	0
Surface Creek	Zanola And Pelazini D	13 S	94 W	32	NW	NE	SW	IRR	0	0	0	0	0
Surface Creek	Zanola And Pelazini D	13 S	94 W	32	NW	NE	SW	IRR	3.12	0	0	0	0
Surface Creek	Zanola And Pelazini D	13 S	94 W	32	NW	NE	SW	IRR	3	0	0	0	0
Surface Creek	C A Beieler Ditch	13 S	94 W	8	NE	NE		IRR	0.5	0	0	0	0
Surface Creek	Crouch Waste Ditch	13 S	94 W	19	SE	NE	NE	IRR	1.5	0	0	0	0
Surface Creek	Simpson Spring Pipeline	13 S	94 W	20	SW	SW	SW	DOMSTK	0.05	0	0	0	0
Surface Creek	Gorsuch Feeder D No 6	13 S	94 W	17	NE	SE	SW	IRR	0	0	125	0	0
Surface Creek	Grover Spring & Pl	13 S	94 W	16	NW	NW	NW	DOM	0.044	0	0	0	0
Surface Creek	Klich Ditch	13 S	94 W	20	NW	SE	NE	IRR	0.75	0	0	0	0
Surface Creek	Settle Ditch	13 S	94 W	20	SE	SE		IRR	5.5	0	0	0	0
Surface Creek	Shepherd Ditch	13 S	94 W	29	SE	NW	NW	IRR	0	0	0	0	0
Surface Creek	Shepherd Ditch	13 S	94 W	29	SE	NW	NW	IRR	6.7	0	0	0	0
Surface Creek	Settle Ditch	13 S	94 W	20	SE	SE		IRR	10.6	0	0	0	0
Surface Creek	Settle Ditch	13 S	94 W	20	SE	SE		IRR	0	0	0	0	0
Surface Creek	Wild Cherry Ditch	13 S	94 W	9	SW	SE	NW	IRR	2.67	0	0	0	0
Surface Creek	Trickle Ditch	13 S	94 W	20	NE	SE	NW	IRR	7	0	0	0	0
Surface Creek	Shepherd Ditch	13 S	94 W	29	SE	NW	NW	IRR	0	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Trickle Ditch	13 S	94 W	20	NE	SE	NW	IRR	0	0	0	0	0
Surface Creek	E C Anderson No 1 Well	13 S	94 W	17	NE	SE	SW	IRRDOMSTK	0.044	0	0	0	0
Surface Creek	Fischer No 1 Well	13 S	94 W	21	NW	SW	SE	IRRDOMSTK	0.11	0	0	0	0
Surface Creek	Hannah Well	13 S	94 W	3	SW	NW		IRR	0.44	0	0	0	0
Surface Creek	Horn Well	13 S	94 W	21	SW	NE	NE	IRRSTK	0.12	0	0	0	0
Surface Creek	Strassle Reservoir No 1	13 S	94 W	29	NE	NE	NW	IRR	0	0.5	0	0	0
Surface Creek	A Hallenbeck No 1 Well	13 S	94 W	31	SE	SW	SW	DOM	0.033	0	0	0	0
Surface Creek	Brown Well	13 S	94 W	29	NE	SW		OTH	0.03	0	0	0	0
Surface Creek	Koos Well	13 S	94 W	34	SW	NW	SW	IRRFIRDOM	0	0	0.033	0	0
Surface Creek	Nesmith Well	13 S	94 W	9	NE	SE		DOM	0.053	0	0	0	0
Surface Creek	Casselberry Well	13 S	94 W	20	SE	SW	SW	IRRDOM	0.089	0	0	0	0
Surface Creek	Strassle Reservoir No. 2	13 S	94 W	29	NE	NE	NW	IRR	0	0.25	0	0	0
Surface Creek	Cox Lake	13 S	94 W	21	SW	SE	NE	RECFIS	0	1	0	0	0
Surface Creek	Casebier Ditch	13 S	94 W	16	NW	SW	SE	IRR	0.5	0	0	0	0
Surface Creek	Richards Wastewater D	13 S	94 W	20	NW	NW	NW	IRR	0.3	0	0	0	0
Surface Creek	Wild Cherry Ditch	13 S	94 W	8	SE	SE	NE	IRR	0.92	0	0	0	0
Surface Creek	Alfalfa Ditch Div Pt No3	13 S	94 W	29	NE	SW	NW	IRR	0	0	0	0	0
Surface Creek	Ike Ditch No 2	13 S	94 W	21	NW	NW	NW	IRR	0.5	0	0	0	0
Surface Creek	Alfalfa Ditch	13 S	94 W	29	SE	NW	SW	IRR	14.35	0	0	0	0.75
Surface Creek	Alfalfa Ditch	13 S	94 W	29	SE	NW	SW	IRR	10.25	0	0	0	0
Surface Creek	Alfalfa Ditch	13 S	94 W	29	SE	NW	SW	IRR	60.75	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	4	0	0	0	0
Surface Creek	Forrest Ditch	13 S	94 W	31	SE	SW	NE	IRR	1.5	0	0	0	0
Surface Creek	Cook Ditch	13 S	94 W	20	SE	NW	NE	IRR	0	0	0	0	0
Surface Creek	Cook Ditch	13 S	94 W	20	SE	NW	NE	IRR	1	0	0	0	0
Surface Creek	Cook Ditch	13 S	94 W	20	SE	NW	NE	IRR	0	0	0	0	0
Surface Creek	Cook Ditch	13 S	94 W	20	SE	NW	NE	IRR	1.77	0	0	0	0
Surface Creek	Red Pepper Ditch	13 S	94 W	16	SE	SE	NE	IRR	0.2	0	0	0	0
Surface Creek	Suzanne Waste Ditch	13 S	94 W	31	NE	SE	NW	IRR	2	0	0	0	0
Surface Creek	Davey Waste Water System	13 S	94 W	16	NE	SE	NE	IRRSTK	0.75	0	0	0	0
Surface Creek	Dryden Waste Water Ditch	13 S	94 W	21	NW	NW	NW	IRR	0.5	0	0	0	0
Surface Creek	Margis Run-Off D. 1 & 2	13 S	94 W	16	SW	NW	SE	IRR	0.25	0	0	0	0
Surface Creek	Best's Horseshoe Lat D	13 S	94 W	21	NW	NW	SE	IRR	0.15	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Elkins Waste Water Ditch	13 S	94 W	21	NW	NW	NW	IRR	0.5	0	0	0	0
Surface Creek	Ford Flow System	13 S	94 W	21	NW	SW	NW	IRR	0.25	0	0	0	0
Surface Creek	Strassle Ditch No 1	13 S	94 W	29	NE	NE	NW	IRR	0.05	0	0	0	0
Surface Creek	Strassle Spring No 1	13 S	94 W	29	NE	NE	NW	IRR	0.05	0	0	0	0
Surface Creek	Strassle Spring No 2	13 S	94 W	29	NE	NE	SW	IRR	0.02	0	0	0	0
Surface Creek	Crocker Wastewater Ditch	13 S	94 W	21	SW	NW	NW	IRR	0.25	0	0	0	0
Surface Creek	Bobs Waste Water Ditch	13 S	94 W	16	SW	NE	NW	IRR	0.25	0	0	0	0
Surface Creek	Strassle Ditch No 3	13 S	94 W	29	NE	NE	NW	IRR	0.3	0	0	0	0
Surface Creek	Ernest C Anderson W.W.D.	13 S	94 W	17	SE	NE	NW	IRR	0.5	0	0	0	0
Surface Creek	Orchard City Pipeline	12 S	94 W	3, 9, 10, 14-16	NW	NW	NW	IRRMUNDOM	1	0	0	0	0
Surface Creek	Chinn Ditch No 1	13 S	94 W	17	SE	NE	SW	IRR	0.1	0	0	0	0
Surface Creek	Chinn Ditch No 1	13 S	94 W	17	SE	NE	SW	IRR	0.1	0	0	0	0
Surface Creek	Sabol Waste Water Ditch	13 S	94 W	17	SW	NW	NE	IRR	0.2	0	0	0	0
Surface Creek	Goodman Cistern & D Tile	13 S	95 W	25	NE	NW	NW	DOM	0.03	0	0	0	0
Surface Creek	Spruce Tree Ditch	14 S	94 W	6	SE	NW	NW	IRR	0	0	0	0	0
Surface Creek	Shelledy Waste Wtr Ditch	14 S	94 W	6	NW	SE	SW	IRR	1	0	0	0	0
Surface Creek	Kremer Spring Pond	14 S	94 W	6	SW	NW	NW	IRRFISSTK	0.1	0	0	0	0
Surface Creek	Omega Ditch	14 S	94 W	31				IRR	3	0	0	0	0
Surface Creek	Omega Ditch	14 S	94 W	31				IRR	0.87	0	0	0	0
Surface Creek	Old Reliable Ditch	14 S	94 W	6	NW	NE	NE	IRRSTK	0.5	0	0	0	0
Surface Creek	Old Reliable Ditch	14 S	94 W	6	NW	NE	NE	IRR	0.06	0	0	0	0
Surface Creek	Old Reliable Ditch	14 S	94 W	6	NW	NE	NE	IRR	1.166	0	0	0	0
Surface Creek	Old Reliable Ditch	14 S	94 W	6	NW	NE	NE	IRR	3.201	0	0	0	0
Surface Creek	Omega Ditch	14 S	94 W	31				IRR	0.37	0	0	0	0
Surface Creek	Omega Ditch	14 S	94 W	31				IRR	0.62	0	0	0	0
Surface Creek	Omega Ditch	14 S	94 W	31				IRR	0.62	0	0	0	0
Surface Creek	Schrader Waste Water D	14 S	94 W	6	SW	SW	SE	IRR	0.6	0	0	0	0
Surface Creek	Olson No 1 Well	14 S	94 W	6	SW	NW	SW	IRRDOM	0.067	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	0	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	6.75	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	12	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	30	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	0	0	0	0	0
Surface Creek	Buttes Ditch	14 S	94 W	12	NE	SW	NE	IRR	1.1	0	0	0	0
Surface Creek	Forrest D W/W Coll Sys	14 S	94 W	6	NE	NW	SW	IRR	5	0	0	0	0
Surface Creek	Benson W/W D No	14 S	94 W	6	NE	NW	SW	IRR	0.25	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
	1												
Surface Creek	Benson W/W D No 1	14 S	94 W	6	NE	NW	SW	IRR	2.75	0	0	0	0
Surface Creek	Benson W/W D No 2	14 S	94 W	6	SE	SE	SE	IRR	0	0	0	0	0.25
Surface Creek	Benson W/W D No 2	14 S	94 W	6	SE	SE	SE	IRR	0	0	0	0	2.75
Surface Creek	Benson W/W D No 3	14 S	94 W	7	NE	NE	NE	IRR	0	0	0	0	0.25
Surface Creek	Benson W/W D No 3	14 S	94 W	7	NE	NE	NE	IRR	0	0	0	0	2.75
Surface Creek	Sharon Pump And Pipeline	14 S	94 W	6	NW	SW	NE	IRR	0.05	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	6.1	0	0	0	0
Surface Creek	Hoyer Pond	14 S	95 W	13	NW	SW	NW	FIS	0	0	0	0	0
Surface Creek	Starr Tile Line Ditch	14 S	95 W	24	NW	SE	SE	IRR	0.6	0	0	0	0
Surface Creek	Horizon's Nursing Home	14 S	95 W	23	SW	NE	NE	IRR	0.83	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0.25	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0.65	0	0	0	0
Surface Creek	Old Line Ditch	14 S	95 W	26	NW	SE	NW	IRRSTK	0.25	0	0	0	0
Surface Creek	Eugene R Hart Seepage D	14 S	95 W	23	SW	NE	SW	IRRDOM	1.5	0	0	0	0
Surface Creek	Bouchard Drainline Pump	14 S	95 W	12	SW	SE	SW	IRR	0.13	0	0	0	0
Surface Creek	Cowells Drainline Pump	14 S	95 W	26	NW	SE	NW	IRRFIRDOM	0.2	0	0	0	0
Surface Creek	James Kennicott W Side D	14 S	95 W	23	SW	NE	SW	IRR	1	0	0	0	0
Surface Creek	Hunsicker Draw Ditch	14 S	95 W	13	NW	NE	NW	IRR	0.5	0	0	0	0
Surface Creek	Hunsicker Draw Waste D	14 S	95 W	13	NW	SW	NW	IRR	1	0	0	0	0
Surface Creek	Lobaugh Seep Ditch	14 S	95 W	13	NW	SW	NW	IRR	0.25	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0	0	0	0	0
Surface Creek	James Kennicott E Side D	14 S	95 W	23	SW	NE	SW	IRR	1.6	0	0	0	0
Surface Creek	Hal Ditch	14 S	95 W	23	NW	SE	SE	IRR	3.27	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0.65	0	0	0	0
Surface Creek	Nutter Seep Ditch	14 S	95 W	13	NE	SW	SW	IRR	1.5	0	0	0	0
Surface Creek	Howard Ditch	14 S	95 W	23	NE	NW	SE	IRR	0.5	0	0	0	0
Surface Creek	Garden Sowania Ditch	14 S	95 W	13	SW	NW	NW	DOM	0.25	0	0	0	0
Surface Creek	Garden Sowania Ditch	14 S	95 W	13	SW	NW	NW	IRR	4	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Garden Sowania Ditch	14 S	95 W	13	SW	NW	NW	IRR	0.25	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	8	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	3.5	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	7.2	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	4.12	0	0	0	0
Surface Creek	Fogg Ditch	14 S	95 W	13	NW	NE	SW	IRR	0	0	0	0	0
Surface Creek	Mcmurray Waste Ditch	14 S	95 W	12	NE	NW		IRR	0	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	4.65	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	1.5	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0	0	0	0	0
Surface Creek	Sunflower Ditch	14 S	95 W	27				IRR	1.25	0	0	0	0
Surface Creek	Stillwater Ditch	14 S	95 W	14	SE	SE	SE	IRR	2	0	0	0	0
Surface Creek	Stillwater Ditch	14 S	95 W	14	SE	SE	SE	IRR	3.5	0	0	0	0
Surface Creek	Weir And Johnson Ditch	14 S	95 W	12	NE	NE	NE	IRR	0.9	0	0	0	0
Surface Creek	Rawhide Ditch	14 S	95 W	27				IRR	0.62	0	0	0	0
Surface Creek	Orchard Ranch Ditch	14 S	95 W	12	SW	SE	NE	IRR	10	0	0	0	0
Surface Creek	Orchard Ranch Ditch	14 S	95 W	12	SW	SE	NE	IRR	6.45	0	0	0	0
Surface Creek	Orchard Ranch Ditch	14 S	95 W	12	SW	SE	NE	IRR	5.7	0	0	0	0
Surface Creek	O'quinn No 1 Well	14 S	95 W	1	SE	SE	NE	DOMS TK	0.055	0	0	0	0
Surface Creek	Good No 1 Well	14 S	95 W	12	NE	NE	SW	IRR	0.044	0	0	0	0
Surface Creek	Good No 2 Well	14 S	95 W	12	NE	NE	SW	IRR	0.044	0	0	0	0
Surface Creek	Hartzell Well	14 S	95 W	1	SE	SE	SE	IRR	0.033	0	0	0	0
Surface Creek	Hallock No 1 Well	14 S	95 W	26	NW	SW		IRR	0.089	0	0	0	0
Surface Creek	Potter No 1 Well	14 S	95 W	12	NE	NE	NE	IRRD OM	0.067	0	0	0	0
Surface Creek	Stephenson Well	14 S	95 W	13	SW	NW		IRR	0.033	0	0	0	0
Surface Creek	Hallenbeck Well No 1	14 S	95 W	12	NW	SW	SE	COM	0.026	0	0	0	0
Surface Creek	Hallenbeck No 2 Well	14 S	95 W	12	NW	SW	NW	STK	0.033	0	0	0	0
Surface Creek	Austin Well No 1	14 S	95 W	12	SE	SW	NE	IRRD OM	0.033	0	0	0	0
Surface Creek	Horizons Well No 1	14 S	95 W	23	SW	NE	NE	IRR	0.066	0	0	0	0
Surface Creek	Eric Johnson Ditch	14 S	95 W	12	NE	NE	SW	IRR	1.5	0	0	0	0
Surface Creek	Horizons Pumping System	14 S	95 W	23	SW	NE	NW	IRR	0.1	0	0	0	0
Surface Creek	Big Fall Ditch	14 S	95 W	23	NE	NE	NE	IRR	1.25	0	0	0	0
Surface Creek	Big Fall Ditch	14 S	95 W	23	NE	NE	NE	IRR	0	0	0	0	0
Surface Creek	Bonita Ditch	14 S	95 W	1	SE	SE	NE	IRR	2.299	0	0	0	0
Surface Creek	Bonita Ditch	14 S	95 W	1	SE	SE	NE	IRR	0.834	0	0	0	0
Surface Creek	Bonita Ditch	14 S	95 W	1	SE	SE	NE	IRR	1.72	0	0	0	0
Surface Creek	Bonita Ditch	14 S	95 W	1	SE	SE	NE	IRR	5.34	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Surface Creek	Doyle Spring Pl	14 S	95 W	14	SE	SE	SW	IRRDOM	0.5	0	0	0	0
Surface Creek	Morse Spring	14 S	95 W	12	NE	SW	NE	IRR	0.05	0	0	0	0
Terror Creek	Garvin Mesa Pipeline Co	12 S	91 W	32	SW	NE	NW	DOM	0.04	0	0	0	0
Terror Creek	Grand Mesa Canal Hgt 3	12 S	91 W	29	SE	NE	SW	IRR	0	0	25	0	0
Terror Creek	Hughes Pipeline	12 S	91 W	32	SW	SW	SE	DOM	0	0	0	0	0
Terror Creek	Pitkin Lake	12 S	92 W					DOM	0	10.7	0	0	0
Terror Creek	Cunningham Creek	12 S	92 W	27	NE	SW	NE	MIN	1.5	0	0	0	0
Terror Creek	Grand Mesa Canal Hgt 4	12 S	92 W					IRR	0	0	50	0	0
Terror Creek	Fulltime Spring	12 S	92 W	34	SW	SW	SW	FISDOMSTK	0.02	0	0	0	0
Terror Creek	Holy Terror Res	12 S	92 W					IRR	0	169.6	0	0	0
Terror Creek	Rex Reservoir	12 S	92 W					IRR	0	6	0	0	0
Terror Creek	Pitkin Lake	12 S	92 W					DOM	0	6	0	0	0
Terror Creek	Rex Reservoir	12 S	92 W					IRR	0	12.4	0	0	0
Terror Creek	Fire Mt Canal	13 S	91 W	21	SW	NW	NE	IRR	70	0	0	0	0
Terror Creek	Leonard Spring No 2	13 S	91 W	7	NE	SE	NE	RECDOMSTK	0.05	0	0	0	0
Terror Creek	Pupik Pond	13 S	91 W	21	SW	NW	NE	IRRDOMSTK	0	2	0	0	0
Terror Creek	Clouds Well	13 S	91 W	21	SE	SW	NW	DOM	0.033	0	0	0	0
Terror Creek	Terror Ditch	13 S	91 W	17	NE	NE	SE	IRR	0	0	0	0	0
Terror Creek	Barrow Spring Pipeline	13 S	91 W	5	NW	SW	SW	RECDOMSTK	0.1	0	0	0	0
Terror Creek	Fawcett Ditch	13 S	91 W	21	SW	NE	SW	IRR	0.115	0	0	0	0
Terror Creek	Fawcett Ditch	13 S	91 W	21	SW	NE	SW	IRRDOM	1.25	0	0	0	0
Terror Creek	Holybee Ditch	13 S	91 W	21	NW	SW	NW	IRR	0.4	0	0	0	0
Terror Creek	Terror Ditch	13 S	91 W	17	NE	NE	SE	IRR	6	0	0	0	0
Terror Creek	Terror Ditch	13 S	91 W	17	NE	NE	SE	DOM	1.5	0	0	0	0
Terror Creek	J & M Spring & Pl No 3	13 S	91 W	4	NW	SW	SE	DOMSTK	0.009	0	0	0	0
Terror Creek	J & M Spring & Pl No 4	13 S	91 W	4	NE	SW	NW	DOMSTK	0.011	0	0	0	0
Terror Creek	J & M Spring & Pl No 5	13 S	91 W	4	NW	SE	NW	DOMSTK	0.011	0	0	0	0
Terror Creek	Leonard Spring No 1	13 S	91 W	7	NE	SE	NE	RECDOMSTK	0.05	0	0	0	0
Terror Creek	Terror Ditch	13 S	91 W	17	NE	NE	SE	IRR	6	0	0	0	0
Terror Creek	Stratton Springs 1 2 3 P	13 S	92 W	1	NE	SW	NW	RECDOMSTK	0.15	0	0	0	0
Terror Creek	Pitkin Mesa Pipeline	13 S	92 W	1	NW			MUNDOMSTK	0	0	0	0	0

Table H-2 (Continued)

StreamName	Water Right Name	TS	Rng	Sec	Q160	Q40	Q10	Use1	Net Rate Abs (cfs)	Net Vol Abs (cfs)	Net Rate Cond	Net Vol Cond	Net Rate Apex
Terror Creek	Pitkin Mesa Pl Ex Well 1	13 S	92 W	22	NW	SW		IRRDOM	0	0	0.25	0	0
Terror Creek	Pitkin Mesa Pipeline	13 S	92 W	1	NW			MUNDOMSTK	0.485	0	0	0	0
Terror Creek	Pitkin Mesa Pipeline	13 S	92 W	1	NW			IRRMUNDOMSTK	2.015	0	0	0	0
Thompson Creek	Hotchkiss Spg No 1	13 S	89 W	6	NE	NW	NW	STKOTH	0.01	0	0	0	0
Thompson Creek	Thompson Creek Ditch	13 S	89 W	7	NW	SE	NW	IRR	0.375	0	0	0	0

[1]Uses:

IRR=irrigation
DOM=domestic
IND=industrial
STK=stock
MUN=municipal
PWR=power
FIS=fish
REC=recreation
FIR=fire prevention

Notes: Water rights based on data provided in the CDSS water rights database at (www.cdss.state.co.us).
Some water rights in T12S may be upstream of the proposed natural gas wells based on the selected query criteria, which were conservative.

Source: CDSS 2003.

Table H-3
USFS and BLM Water Rights Downstream of the Eight Proposed Well Sites

BLM Water Rights	
Oakbrush Site, Bear Creek	Upper Terminus: T12S, R91W, S36, NESW; Lower Terminus: T13S, R90W, S18, NENW; 0.011 cfs.
Hubbard Creek Site, Hubbard Creek	Upper Terminus: T13S, R91W, S2, SWNW; Lower Terminus: T13S, R91W, S11, NESE; 0.011 cfs.
Powerline and Bull Park sites, Terror Creek	Upper Terminus: T13S, R91W, S5, NENE; Lower Terminus: T13S, R91W, S21, SENW; 0.012 cfs.
USFS Water Rights	
Powerline Well Site, Terror Creek drainage	T12S, R91W, S16; Alder 2 stockwater; storage; 0.1 AF T12S, R91W, S16; Alder 3 stockwater; storage; 0.1 AF T12S, R91W, S16; Alder 4 stockwater; storage; 0.1 AF T12S, R91W, S20; E Terror 19 stockwater; storage; 0.1 AF T12S, R91W, S20; E Terror 20 stockwater; storage; 0.1 AF T12S, R91W, S19; E Terror 19 stockwater; storage; 0.1 AF
Bull Park Well Site, Terror Creek drainage	T12S, R91W, S29; E Terror 21 stockwater; storage - 0.5 AF; direct flow - 0.001 cfs T12S, R91W, S28; E Terror 14 stockwater; storage; 0.1 AF T12S, R91W, S28; E Terror 15 stockwater; storage; 0.1 AF T12S, R91W, S30; E Terror 25 stockwater; storage; 0.1 AF T12S, R91W, S29; E Terror 22 stockwater; storage - 0.5 AF; direct flow - 0.001 cfs T12S, R91W, S31; E Terror 23 stockwater; storage; 0.1 AF T12S, R91W, S31; E Terror 12 stockwater; storage; 0.1 AF T12S, R91W, S31; Monte stockwater; storage; 0.5 AF T12S, R91W, S31; E Terror 11 stockwater; storage; 0.1 AF T12S, R91W, S32; E Terror 10 stockwater; storage; 0.1 AF T12S, R91W, S32; E Terror 9 stockwater; storage; 0.1 AF
Hubbard Creek and Oakbrush Well sites, Hubbard Creek drainage	T12S, R91W, S21; E Terror 18 stockwater; storage; 0.1 AF T12S, R91W, S22; E Terror 30 stockwater; storage; 0.1 AF T12S, R91W, S22; E Terror 17 stockwater; storage; 0.1 AF T12S, R91W, S22; E Terror 1 stockwater; storage; 0.1 AF T12S, R91W, S27; E Terror 16 stockwater; storage; 0.1 AF T12S, R91W, S27; E Terror 28 stockwater; storage; 0.1 AF T12S, R91W, S34; E Terror 2 stockwater; storage - 0.5 AF; direct flow - 0.001 cfs T12S, R91W, S33; E Terror 8 stockwater; storage; 0.1 AF T12S, R91W, S33; E Terror 7 stockwater; storage; 0.1 AF T12S, R91W, S34; E Terror 26 stockwater; storage; 0.1 AF T12S, R91W, S33; E Terror 6 stockwater; storage; 0.1 AF T12S, R91W, S33; E Terror 5 stockwater; storage; 0.1 AF T12S, R91W, S33; E Terror 3 stockwater; storage - 0.5 AF; direct flow - 0.001 cfs T12S, R91W, S33; E Terror 27 stockwater; storage; 0.1 AF

Table H-3 (Continued)

USFS Water Rights (Continued)	
Leon Lake #4 and #5 Well sites, Surface Creek drainage	T12S, R93W, S22; Hells Hole 1 LWT stockwater; storage; 0.1 AF; Dry Creek T12S, R93W, S23; Green 1 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S36; Leroux Creek 4 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S26; Leroux Creek 5 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S26; Green 2 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S27; Horse Mountain stockwater; storage; 0.5 AF; Dry Creek T12S, R93W, S26; Green 3 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S26; Leroux Creek 1 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S26; Green 4 LWT stockwater; storage 0.1 AF; Leroux Creek T12S, R93W, S26; Leroux Creek 2 LWT stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S26; Currant 1LWT stockwater; storage; 0.1 AF; Currant Creek T12S, R93W, S33; LWT 8 stockwater; storage; 0.1 AF; Dry Creek T12S, R93W, S34; LWT 9 stockwater; storage; 0.1 AF; Dry Creek T12S, R93W, S34; Horse Mountain 1 stockwater; storage; 0.1 AF; Leroux Creek T12S, R93W, S33; Hells Hole #3 stockwater; storage; 0.5 AF; Dry Creek

Note: cfs = cubic feet per second
AF = acre-feet