



CERTIFICATION:

THIS MAP WAS PREPARED BY TETRA TECH IN COOPERATION WITH VECCHI & ASSOCIATES, LLC, DEERE AND AULT CONSULTANTS, INC., RESOURCE CONSERVATION PARTNERS, LLC, ENVIROGROUP LIMITED, AND QUEEN OF THE RIVER CONSULTANTS, INC. FOR LAFARGE WEST, INC. LAFARGE WILL KEEP THE DIVISION OF MINERALS AND GEOLOGY INFORMED OF ANY CHANGES TO THE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS AND AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

Pamela Franch Hora
PAMELA FRANCH HORA, AICP
SENIOR PLANNER, TETRA TECH

1-20-10
DATE

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1	10-09	INITIAL SUBMITTAL	MAM
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4	10-30-24	TR REQUEST FROM INSPECTION FOR O&G	JMM

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PERMANENT MAN-MADE STRUCTURES WITHIN 200 FEET OF THE AFFECTED LAND

	No.	Structure	Structure Owner	Mining Phase Within 200 Feet 344	Setback from Proposed High Rail (feet)	Recomm. Setback based on Stability Analysis (feet)	Mailing Address
PA 02/14/2017 -	1	Whitney Ditch	Whitney Irrigation Company	IA	87	47	11412 MCR 64 3/4, Greeley, CO 80631
	2	MCR 64.5	City of Greeley	IA	110	47	1000 10th Street, Greeley, CO 80631
	3	Mobile Home	Vernon J and Patricia Elter	IA	251	47	12344 County Road 64.5, Greeley, CO 80631-4342
	4	House	Vernon J and Patricia Elter	IA	45	47	12344 County Road 64.5, Greeley, CO 80631-4342
	5	House	Vernon J and Patricia Elter	IA	114	47	12344 County Road 64.5, Greeley, CO 80631-4342
	6	House	Vernon J and Patricia Elter	IA	176	47	12344 County Road 64.5, Greeley, CO 80631-4342
	7	Barn	Vernon J and Patricia Elter	IA	159	47	12344 County Road 64.5, Greeley, CO 80631-4342
	8	Sheds	Vernon J and Patricia Elter	IA	120	47	12344 County Road 64.5, Greeley, CO 80631-4342
	9	Shop	Vernon J and Patricia Elter	IA	151	47	12344 County Road 64.5, Greeley, CO 80631-4342
	10	Shed	Vernon J and Patricia Elter	IB	154	34	12344 County Road 64.5, Greeley, CO 80631-4342
PA 07/02/2018 -	11	Oil/Gas Well (Elter 30-32)	Petro Canada Resources, Inc.	IA	140	47	1091 18th St, Suite 400, Denver, CO 80202
	12	Road	Petro Canada Resources, Inc.	IA	54	47	1091 18th St, Suite 400, Denver, CO 80202
	13	Oil/Gas Pipeline (assumed to be in road - not field located)	Petro Canada Resources, Inc.	IA	61	34	1091 18th St, Suite 400, Denver, CO 80202
	14	Oil/Gas Well (Lafarge 30-35)	Petro Canada Resources, Inc.	IB	*	34	1091 18th St, Suite 400, Denver, CO 80202
PA 12/10/2018 -	15	Road	Petro Canada Resources, Inc.	IA	96	47	1091 18th St, Suite 400, Denver, CO 80202
	16	Oil/Gas Well (Elter 30-33)	Petro Canada Resources, Inc.	IB	61	34	1091 18th St, Suite 400, Denver, CO 80202
	17	Fence	Lafarge West, Inc.	IB	N/A	N/A	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
	18	Fence	Sally A. Parsons	IB	N/A	N/A	P.O. Box 336665 Greeley, CO 80633-0612
	19	Road	Petro Canada Resources, Inc.	IC	N/A	N/A	1091 18th St, Suite 400, Denver, CO 80202
	20	Oil/Gas Pipeline	Petro Canada Resources, Inc.	IA	50	47	1091 18th St, Suite 400, Denver, CO 80202
	21	Field Ditch	Lafarge West, Inc.	IB	45	34	1091 18th St, Suite 400, Denver, CO 80202
	22	Concrete Irrigation Lateral	Lafarge West, Inc.	IA	47	47	1091 18th St, Suite 400, Denver, CO 80202
	23	Fenced Tank Batteries	Petro Canada Resources, Inc.	IB	64	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
	24	Gas Treater and Meter	Lafarge West, Inc.	IB	25	47	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
	25	Oil/Gas Pipeline	Petro Canada Resources, Inc.	IA	N/A	N/A	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
	26	Telephone line	Petro Canada Resources, Inc.	IB	43	47	1091 18th St, Suite 400, Denver, CO 80202
	27	MCR 25	Quest Corporation, Attn: Don Somer	IA	121	34	12680 MCR 56, Greeley, CO 80634
			City of Greeley	IA	125	47	1000 10th Street, Greeley, CO 80631
				IA	104	47	
				IB	61	34	
				2	107	34	
				3	63	34	
				4A	13	25	
				4B	114	25	
				IB	73	47	1324 N. 7th Ave, Greeley, CO 80631
				3A	34	34	
				2	157	34	
				4A	71	25	
				4B	40	25	
				IB	47	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
				IB	60	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
				IB	88	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
				IB	67	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
				N/A	N/A	N/A	P.O. Box 336665 Greeley, CO 80633-0612
				N/A	N/A	N/A	
				3	N/A	N/A	
PA 06/20/2019 -	34	Road	Tigges Oil LLC	IB	207	34	12406 MCR 64 1/2, Greeley, CO 80631
				IC	172	30	
				3	40	25	
				IB	*	34	12406 MCR 64 1/2, Greeley, CO 80631
				IC	*	30	
				3	7	25	
				3	5	25	12406 MCR 64 1/2, Greeley, CO 80631
				3	62	25	12406 MCR 64 1/2, Greeley, CO 80631
				3	62	25	12406 MCR 64 1/2, Greeley, CO 80631
				3	171	25	1625 Broadway, Ste. 2000, Denver, CO 80004
PA 09-09-2016 -	40	Fenced Petroleum Tank	Noble Energy Production, Inc.	3	148	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4B	148	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4B	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4B	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
PA 09-14-2016 - PA 12-17-2017 -	42	Gas Well (State H86-1)	Noble Energy Production, Inc.	4C	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	43	Gas Well (State H86-36)	Noble Energy Production, Inc.	4C	187	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	44	Gas Pipeline	Noble Energy Production, Inc.	5B	146	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	45	Road	Noble Energy Production, Inc.	5B	200	26	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4A	46	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4A	46	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4A	46	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4A	46	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4B	51	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	4B	152	25	1625 Broadway, Ste. 2000, Denver, CO 80004
PA 03-22-2019 -	46	Gas Pipeline	Noble Energy Production, Inc.	4B	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	47	Road	Noble Energy Production, Inc.	4B	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	48	Gas Pipeline	Noble Energy Production, Inc.	4B	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	49	Field Ditch	Sally A. Parsons	4C	N/A	N/A	P.O. Box 336665, Greeley, CO 80633-0612
	50	Field Ditch	Sally A. Parsons	4C	N/A	N/A	P.O. Box 336665, Greeley, CO 80633-0612
	51	Reinforced Concrete Pipe	Sally A. Parsons	4C	N/A	N/A	P.O. Box 336665, Greeley, CO 80633-0612
	52	Gas Well (State H86-36)	Noble Energy Production, Inc.	4C	150	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	53	Gas Pipeline	Noble Energy Production, Inc.	4C	45	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	54	Gas Pipeline	Noble Energy Production, Inc.	4C	45	25	1625 Broadway, Ste. 2000, Denver, CO 80004
	55	Gas Well (H86-1)	Noble Energy Production, Inc.	5A	182	25	1625 Broadway, Ste. 2000, Denver, CO 80004
PA 06-01-2018 -	56	Gas Pipeline	Noble Energy Production, Inc.	5B	26	26	1625 Broadway, Ste. 2000, Denver, CO 80004
	57	Road	Noble Energy Production, Inc.	4C	46	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	5A	48	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	5A	49	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	5A	52	25	1625 Broadway, Ste. 2000, Denver, CO 80004
			Noble Energy Production, Inc.	5B	41	26	4124 Spring Canyon Ct, Fort Collins, CO 80525
			Noble Energy Production, Inc.	4A	41	25	P.O. Box 336665, Greeley, CO 80633-0612
			Noble Energy Production, Inc.	4C	44	25	
			Noble Energy Production, Inc.	4C	45	25	
			Noble Energy Production, Inc.	2	45	25	
PA 06-22-2017 -	60	Fence	Livingston Leigh Livestock of Field County, LLC	2	N/A	N/A	4124 Spring Canyon Ct, Fort Collins, CO 80525
	61	Stock Tank with Windmill	Livingston Leigh Livestock of Field County, LLC	2	N/A	N/A	4124 Spring Canyon Ct, Fort Collins, CO 80525
	62	Underground Irrigation Pipe	Livingston Leigh Livestock of Field County, LLC	2	40	37	4124 Spring Canyon Ct, Fort Collins, CO 80525
	63	Sighon	Livingston Leigh Livestock of Field County, LLC	2	40	37	4124 Spring Canyon Ct, Fort Collins, CO 80525
	64	Field Ditch	Livingston Leigh Livestock of Field County, LLC	2	N/A	N/A	4124 Spring Canyon Ct, Fort Collins, CO 80525
	65	Concrete Irrigation Lateral	Livingston Leigh Livestock of Field County, LLC	2	38	37	4124 Spring Canyon Ct, Fort Collins, CO 80525
	66	Gas Well (Steam 3)	Blue Chip Oil, Inc.	2	66	37	155 E. Boardwalk Dr., Ste. 400, Fort Collins, CO 80525
	67	Gas Pipeline	Blue Chip Oil, Inc.	2	76	37	155 E. Boardwalk Dr., Ste. 400, Fort Collins, CO 80525
	68	Fenced Petroleum Tanks	Blue Chip Oil, Inc.	2	114	37	155 E. Boardwalk Dr., Ste. 400, Fort Collins, CO 80525
	69	Field Ditch	Livingston Leigh Livestock of Field County, LLC	2	N/A	N/A	4124 Spring Canyon Ct, Fort Collins, CO 80525
	70	House	Livingston Leigh Livestock of Field County, LLC	2	154	37	4124 Spring Canyon Ct, Fort Collins, CO 80525
			DGP Midstream (Formerly Associated Natural Gas)	IA	144	47	1324 N. 7th Ave, Greeley, CO 80631
	71	Overhead Electric Line	Xcel Energy	IA	140	47	1500 6th Avenue, Greeley, CO 80631
	72	Telecommunications facilities	Quest Corporation, Attn: Don Somer	IA	150	47	12680 MCR 56, Greeley, CO 80634
	73	Driveway and Mailbox	Dana L. Christensen	IA	133	47	12264 CR 64 1/2, Greeley, CO 80634
	74	Fence	Dana L. Christensen	IA	153	47	12264 CR 64 1/2, Greeley, CO 80634
	75	Waterline (not field located)	North Weld County Water District	IA	142	47	P.O. Box 56, Lucerne, CO 80646
	76	Road	Vernon J and Patricia Elter	IA	62	47	12344 County Road 64.5, Greeley, CO 80631-4342
	77	Overhead Electric Line	Xcel Energy	IA	150	47	1500 6th Avenue, Greeley, CO 80631
	78	Fence	Lafarge West, Inc.	IB	67	34	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
	79	Fence	Vernon J and Patricia Elter	IB	44	34	12344 County Road 64.5, Greeley, CO 80631-4342
	80	Fence	Kenneth Eugene Tigges	IC	320	30	10110 Church Ranch Way, Ste 200, Westminster, CO 80021
			Sally A. Parsons	IB	44	34	12406 MCR 64 1/2, Greeley, CO 80631
			Kenneth Eugene Tigges	3	100	25	12406 MCR 64 1/2, Greeley, CO 80631
			Sally A. Parsons	4A	100	25	P.O. Box 336665, Greeley, CO 80633-0612
				4B	48	25	
				4B	49	26	1815 61st Avenue, No. 200, Greeley, CO 80634
				5C	44	26	P.O. Box 336665, Greeley, CO 80633-0612
				5B	70	26	1815 61st Avenue, No. 200, Greeley, CO 80634
				5C	68	26	415 10th St, Greeley, CO 80632
	82	Fence	Ed and Susie Ann Orr	5B	32	26	415 10th St, Greeley, CO 80632
	83	Fence	Ed and Susie Ann Orr	5C	51	26	
	84	Concrete Bike Path	Ed and Susie Ann Orr	5C	51	26	1815 61st Avenue, No. 200, Greeley, CO 80634
	85	Fence	Sally A. Parsons	5C	48	25	P.O. Box 336665, Greeley, CO 80633-0612
	86	Fence	Brown Land Acquisitions II, LLC	5C	49	25	252 Clayton St., 4th Floor, Denver, CO 80206
	87	Fence	Lot Holding Investments, LLC	4C	94	25	301 Centennial Dr., Milliken, CO 80543
	88	Fence	Lot Holding Investments, LLC	4C	73	25	P.O. Box 336665, Greeley, CO 80633-0612
	89	Fence	Sally A. Parsons	4A	25	25	4124 Spring Canyon Ct, Fort Collins, CO 80525
	90	RCP Irrigation Lateral	Sally A. Parsons	4C	51	25	P.O. Box 336665, Greeley, CO 80633-0612
	91	Fence	Lot Holding Investments, LLC	4C	41	25	P.O. Box 336665, Greeley, CO 80633-0612

Notes: 1. N/A appears in the above table for those existing structures which will be removed prior to mining.
2. * appears in the above described table for structures that may exist but were not field located.

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 TETRA TECH www.tetratech.com 1900 S. Sunset Street, Ste. 1-F Longmont, Colorado 80501 PHONE: (303) 772-5282 FAX: (303) 772-7039	MARK	DATE	DESCRIPTION	BY	LAFARGE WEST, INC.	Project No.433-4B102400
	1	10-09	INITIAL SUBMITTAL	MAM	PARSONS MINE EXHIBIT C	Designed By: LAFARGE
	2	12-2-09	REVISED	MAM		Drawn By: MAM
	3	1-20-10	ADEQUACY REVIEW RESPONSE	MAM		Checked By: PFF
	4	10-30-24	TR REQUEST FROM INSPECTION FOR O&G JMM			2
					PRE-MINING PLAN	