

Application

Part *II*

Tables

Table 1	OCD wells within the area of review
Table 2a	BLM leases within the area of review
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API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
30-025-08127	22223	TEMPO ENERGY INC	O	P	PAYNE FEDERAL #001	1	F-35-23S-32E	5092	[59930] TRISTE DRAW, DELAWARE
30-025-08130	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	J-35-23S-32E	5110	
30-025-08136	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	L-01-24S-32E	5091	
30-025-08137	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	H-02-24S-32E	5061	[59930] TRISTE DRAW, DELAWARE
30-025-08139	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	J-10-24S-32E	4974	
30-025-08140	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #001	1	G-11-24S-32E	5091	[19090] DOUBLE X, DELAWARE
30-025-08141	299027	MCI OPERATING OF NM, LLC	O	A	HANAGAN D FEDERAL #002	1	J-11-24S-32E	4962	[19090] DOUBLE X, DELAWARE
30-025-08142	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	I-11-24S-32E	4986	[19090] DOUBLE X, DELAWARE
30-025-08143	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #004	1	F-11-24S-32E	5107	[19090] DOUBLE X, DELAWARE
30-025-08144	14070	MARKS AND GARNER PRODUCTION LTD CO	O	A	GULF HANAGAN FEDERAL #001	1	P-11-24S-32E	5065	[19090] DOUBLE X, DELAWARE
30-025-08145	299027	MCI OPERATING OF NM, LLC	O	A	GULF HANAGAN FEDERAL #002	1	O-11-24S-32E	5046	[19090] DOUBLE X, DELAWARE
30-025-08146	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	E-12-24S-32E	5049	[19090] DOUBLE X, DELAWARE
30-025-08148	299027	MCI OPERATING OF NM, LLC	S	A	JENNINGS FEDERAL #001	1	C-14-24S-32E	5019	[19090] DOUBLE X, DELAWARE; [96100] SWD, DELAWARE
30-025-08149	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #002	1	M-14-24S-32E	5000	[19090] DOUBLE X, DELAWARE
30-025-08150	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	B-14-24S-32E	5030	[19090] DOUBLE X, DELAWARE
30-025-08151	299027	MCI OPERATING OF NM, LLC	O	A	HANAGAN B FEDERAL #001	1	O-15-24S-32E	4955	[19090] DOUBLE X, DELAWARE
30-025-08152	299027	MCI OPERATING OF NM, LLC	O	A	HANAGAN B FEDERAL #002	1	P-15-24S-32E	4990	[19090] DOUBLE X, DELAWARE
30-025-08153	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	I-15-24S-32E	4970	
30-025-08156	14070	MARKS AND GARNER PRODUCTION LTD CO	O	P	BRADLEY FEDERAL #003	1	A-22-24S-32E	4980	[19090] DOUBLE X, DELAWARE
30-025-08157	299027	MCI OPERATING OF NM, LLC	O	A	U S SMELTING FEDERAL #001	1	B-22-24S-32E	5014	[19090] DOUBLE X, DELAWARE
30-025-08163	14070	MARKS AND GARNER PRODUCTION LTD CO	O	A	ERNEST FEDERAL #001	1	D-23-24S-32E	4992	[19090] DOUBLE X, DELAWARE
30-025-21296	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	L-35-23S-32E	5026	[59930] TRISTE DRAW, DELAWARE
30-025-21297	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #004	1	E-35-23S-32E	5050	
30-025-21320	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	I-34-23S-32E	5080	[59930] TRISTE DRAW, DELAWARE
30-025-21440	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	P-34-23S-32E	5039	[59930] TRISTE DRAW, DELAWARE
30-025-22339	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	4-02-24S-32E	4964	[59930] TRISTE DRAW, DELAWARE
30-025-22375	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #002	1	F-02-24S-32E	0	
30-025-23612	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	N-15-24S-32E	5023	
30-025-24433	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #002	1	A-12-24S-32E	5038	[59920] TRIPLE X, DELAWARE
30-025-24468	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #003	1	H-12-24S-32E	5070	[59920] TRIPLE X, DELAWARE
30-025-24482	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #005	1	A-11-24S-32E	5050	[19090] DOUBLE X, DELAWARE
30-025-24530	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #004	1	G-12-24S-32E	5030	[59920] TRIPLE X, DELAWARE
30-025-24717	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	O-01-24S-32E	5117	[59920] TRIPLE X, DELAWARE
30-025-25149	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #004	1	K-14-24S-32E	5000	[19090] DOUBLE X, DELAWARE
30-025-25181	371484	ROVER OPERATING, LLC	O	A	WIMBERLY A #001	1	B-13-24S-32E	5050	[19090] DOUBLE X, DELAWARE
30-025-25368	22100	TAHOE ENERGY INC	O	P	WIMBERLY #006	1	B-11-24S-32E	5100	
30-025-25388	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #007	1	N-12-24S-32E	5100	
30-025-25552	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #008	1	K-12-24S-32E	5070	[19090] DOUBLE X, DELAWARE
30-025-26303	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	P-04-24S-32E	4995	
30-025-26643	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #002	1	I-12-24S-32E	5100	[19090] DOUBLE X, DELAWARE
30-025-27213	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	J-02-24S-32E	5005	
30-025-27754	373644	3 Knights Operating LLC	O	A	EXXON 23 FEDERAL #001	1	C-23-24S-32E	4985	[19090] DOUBLE X, DELAWARE
30-025-28754	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #005	1	F-14-24S-32E	4950	[19090] DOUBLE X, DELAWARE
30-025-28755	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #006	1	J-14-24S-32E	4933	[19090] DOUBLE X, DELAWARE
30-025-28896	11830	J & G ENTERPRISE LTD. CO.	O	P	NEW MEXICO EH STATE #001	1	P-02-24S-32E	5233	[19090] DOUBLE X, DELAWARE
30-025-29180	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	I-12-24S-32E	5020	
30-025-29181	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #002	1	J-12-24S-32E	0	
30-025-29337	22223	TEMPO ENERGY INC	O	P	PAYNE FEDERAL #004	1	K-35-23S-32E	5030	[59930] TRISTE DRAW, DELAWARE
30-025-29338	22223	TEMPO ENERGY INC	O	P	PAYNE FEDERAL #005	1	F-35-23S-32E	5057	
30-025-29339	22223	TEMPO ENERGY INC	O	C	PAYNE FEDERAL #006	1	L-35-23S-32E	0	
30-025-30030	36986	WILSON OPERATING CO INC	O	P	SUN FEDERAL #001	1	P-33-23S-32E	7500	[96035] WILDCAT, GROUP 4
30-025-30113	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #006	1	N-11-24S-32E	5075	[19090] DOUBLE X, DELAWARE
30-025-30746	7377	EOG RESOURCES INC	G	A	DOUBLE ABJ STATE #001	1	B-16-24S-32E	15800	[92603] LEA UNDESIGNATED, STRAWN (GAS); [97026] DOUBLE X, STRAWN (GAS)
30-025-32069	25575	EOG Y RESOURCES, INC.	O	C	TRISTE DRAW ANH STATE #001	1	2-02-24S-32E	9999	
30-025-32110	25575	EOG Y RESOURCES, INC.	O	C	TRISTE DRAW ANH STATE #002	1	4-02-24S-32E	9999	
30-025-32199	25575	EOG Y RESOURCES, INC.	O	C	COTTON PLACE ANG FEDERAL #001	1	A-10-24S-32E	99999	
30-025-32200	25575	EOG Y RESOURCES, INC.	O	C	COTTON PLACE ANG FEDERAL #002	1	B-10-24S-32E	99999	
30-025-32879	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #001	1	J-34-23S-32E	10215	[59930] TRISTE DRAW, DELAWARE; [96603] TRISTE DRAW, BONE SPRING

API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
30-025-32998	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #002	1	O-34-23S-32E	10210	[59930] TRISTE DRAW, DELAWARE
30-025-33020	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #003	1	G-34-23S-32E	10150	[59930] TRISTE DRAW, DELAWARE; [96603] TRISTE DRAW, BONE SPRING
30-025-33261	7377	EOG RESOURCES INC	O	P	DIAMONDTAIL 34 FEDERAL #004	1	H-34-23S-32E	10200	[59930] TRISTE DRAW, DELAWARE
30-025-33273	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	DIAMOND 34 FEDERAL #004	1	F-34-23S-32E	0	
30-025-33274	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	DIAMONDTAIL 34 FEDERAL #005	1	I-34-23S-32E	0	
30-025-33351	7377	EOG RESOURCES INC	O	P	DIAMOND 34 FEDERAL #003	1	N-34-23S-32E	10199	[59930] TRISTE DRAW, DELAWARE
30-025-33719	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	SAPPHIRE 3 FEDERAL #001	1	2-03-24S-32E	0	
30-025-34129	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #007	1	H-11-24S-32E	5118	[19090] DOUBLE X, DELAWARE
30-025-35014	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 3 FEDERAL #001	1	2-03-24S-32E	9000	[59930] TRISTE DRAW, DELAWARE
30-025-35015	7377	EOG RESOURCES INC	O	A	DIAMOND 34 FEDERAL #001	1	F-34-23S-32E	9000	[59930] TRISTE DRAW, DELAWARE
30-025-40551	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #001H	1	N-02-24S-32E	9636	[96603] TRISTE DRAW, BONE SPRING
30-025-40700	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #001	1	A-12-24S-32E	11085	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40791	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #002H	1	B-12-24S-32E	11027	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40792	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #003H	1	C-12-24S-32E	11003	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40793	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #004H	1	D-12-24S-32E	10933	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40860	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #002H	1	M-02-24S-32E	9688	[96603] TRISTE DRAW, BONE SPRING
30-025-40861	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #004H	1	P-02-24S-32E	9573	[96603] TRISTE DRAW, BONE SPRING
30-025-40879	4323	CHEVRON U S A INC	O	C	MCCLOY RANCH 2 24 32 STATE COM #003C	1	O-02-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41469	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 11 FEDERAL COM #001H	1	A-11-24S-32E	10925	[96603] TRISTE DRAW, BONE SPRING
30-025-41470	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 11 FEDERAL COM #002H	1	B-11-24S-32E	10893	[96603] TRISTE DRAW, BONE SPRING
30-025-41471	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 11 FEDERAL COM #003H	1	C-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41472	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 11 FEDERAL COM #004H	1	D-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41477	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 13 FEDERAL COM #003H	1	C-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41478	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 13 FEDERAL COM #004H	1	D-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41480	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 13 FEDERAL COM #002H	1	B-13-24S-32E	10937	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41520	162928	ENERGEN RESOURCES CORPORATION	O	A	COX 35 FEDERAL #001H	1	P-35-23S-32E	11009	[96603] TRISTE DRAW, BONE SPRING
30-025-41521	162928	ENERGEN RESOURCES CORPORATION	O	A	COX 35 FEDERAL #002H	1	O-35-23S-32E	10927	[96603] TRISTE DRAW, BONE SPRING
30-025-42064	229137	COG OPERATING LLC	O	A	MASTIFF FEDERAL #003H	1	3-04-24S-32E	10652	[96229] MESA VERDE, BONE SPRING
30-025-42601	7377	EOG RESOURCES INC	O	N	PEGASUS 34 FEDERAL #001H	1	P-34-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-42602	7377	EOG RESOURCES INC	O	N	PEGASUS 34 FEDERAL #002H	1	P-34-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-42759	308339	OWL SWD OPERATING, LLC	S	H	MCCLOY SWD #001	1	L-15-24S-32E	5810	[96802] SWD, BELL CANYON-CHERRY CANYON
30-025-42947	308339	OWL SWD OPERATING, LLC	S	A	MCCLOY SWD #002	1	L-15-24S-32E	18776	[96101] SWD, DEVONIAN
30-025-43288	162928	ENERGEN RESOURCES CORPORATION	O	N	COX 35 FEDERAL #004H	1	O-35-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-43289	162928	ENERGEN RESOURCES CORPORATION	O	N	COX 35 FEDERAL #003H	1	P-35-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-44616	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	MODELO 10 FEDERAL COM #201H	1	A-10-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-45413	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 11 14 FEDERAL COM #004H	1	D-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING; [98309] WC-025 G-08 S243213C, WOLFCAMP
30-025-45414	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 11 14 FEDERAL COM #005H	1	C-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-45416	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 13 FEDERAL COM #009H	1	C-13-24S-32E	0	[98309] WC-025 G-08 S243213C, WOLFCAMP
30-025-45417	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 13 FEDERAL COM #010H	1	C-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST

API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
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30-025-08130	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	J-35-23S-32E	5110	
30-025-08136	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	L-01-24S-32E	5091	
30-025-08137	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	H-02-24S-32E	5061	[59930] TRISTE DRAW, DELAWARE
30-025-08139	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	J-10-24S-32E	4974	
30-025-08140	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #001	1	G-11-24S-32E	5091	[19090] DOUBLE X, DELAWARE
30-025-08141	299027	MCI OPERATING OF NM, LLC	O	A	HANAGAN D FEDERAL #002	1	J-11-24S-32E	4962	[19090] DOUBLE X, DELAWARE
30-025-08142	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	I-11-24S-32E	4986	[19090] DOUBLE X, DELAWARE
30-025-08143	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #004	1	F-11-24S-32E	5107	[19090] DOUBLE X, DELAWARE
30-025-08144	14070	MARKS AND GARNER PRODUCTION LTD CO	O	A	GULF HANAGAN FEDERAL #001	1	P-11-24S-32E	5065	[19090] DOUBLE X, DELAWARE
30-025-08145	299027	MCI OPERATING OF NM, LLC	O	A	GULF HANAGAN FEDERAL #002	1	O-11-24S-32E	5046	[19090] DOUBLE X, DELAWARE
30-025-08146	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	E-12-24S-32E	5049	[19090] DOUBLE X, DELAWARE
30-025-08148	299027	MCI OPERATING OF NM, LLC	S	A	JENNINGS FEDERAL #001	1	C-14-24S-32E	5019	[19090] DOUBLE X, DELAWARE; [96100] SWD, DELAWARE
30-025-08149	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #002	1	M-14-24S-32E	5000	[19090] DOUBLE X, DELAWARE
30-025-08150	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	B-14-24S-32E	5030	[19090] DOUBLE X, DELAWARE
30-025-08151	299027	MCI OPERATING OF NM, LLC	O	A	HANAGAN B FEDERAL #001	1	O-15-24S-32E	4955	[19090] DOUBLE X, DELAWARE
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30-025-08153	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	I-15-24S-32E	4970	
30-025-08156	14070	MARKS AND GARNER PRODUCTION LTD CO	O	P	BRADLEY FEDERAL #003	1	A-22-24S-32E	4980	[19090] DOUBLE X, DELAWARE
30-025-08157	299027	MCI OPERATING OF NM, LLC	O	A	U S SMELTING FEDERAL #001	1	B-22-24S-32E	5014	[19090] DOUBLE X, DELAWARE
30-025-08163	14070	MARKS AND GARNER PRODUCTION LTD CO	O	A	ERNEST FEDERAL #001	1	D-23-24S-32E	4992	[19090] DOUBLE X, DELAWARE
30-025-21296	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #003	1	L-35-23S-32E	5026	[59930] TRISTE DRAW, DELAWARE
30-025-21297	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #004	1	E-35-23S-32E	5050	
30-025-21320	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	I-34-23S-32E	5080	[59930] TRISTE DRAW, DELAWARE
30-025-21440	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	P-34-23S-32E	5039	[59930] TRISTE DRAW, DELAWARE
30-025-22339	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	4-02-24S-32E	4964	[59930] TRISTE DRAW, DELAWARE
30-025-22375	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #002	1	F-02-24S-32E	0	
30-025-23612	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	N-15-24S-32E	5023	
30-025-24433	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #002	1	A-12-24S-32E	5038	[59920] TRIPLE X, DELAWARE
30-025-24468	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #003	1	H-12-24S-32E	5070	[59920] TRIPLE X, DELAWARE
30-025-24482	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #005	1	A-11-24S-32E	5050	[19090] DOUBLE X, DELAWARE
30-025-24530	154303	PRIMAL ENERGY CORPORATION	O	P	WIMBERLY #004	1	G-12-24S-32E	5030	[59920] TRIPLE X, DELAWARE
30-025-24717	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	O-01-24S-32E	5117	[59920] TRIPLE X, DELAWARE
30-025-25149	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #004	1	K-14-24S-32E	5000	[19090] DOUBLE X, DELAWARE
30-025-25181	371484	ROVER OPERATING, LLC	O	A	WIMBERLY A #001	1	B-13-24S-32E	5050	[19090] DOUBLE X, DELAWARE
30-025-25368	22100	TAHOE ENERGY INC	O	P	WIMBERLY #006	1	B-11-24S-32E	5100	
30-025-25388	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #007	1	N-12-24S-32E	5100	
30-025-25552	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #008	1	K-12-24S-32E	5070	[19090] DOUBLE X, DELAWARE
30-025-26303	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	P-04-24S-32E	4995	
30-025-26643	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #002	1	I-12-24S-32E	5100	[19090] DOUBLE X, DELAWARE
30-025-27213	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	J-02-24S-32E	5005	
30-025-27754	373644	3 Knights Operating LLC	O	A	EXXON 23 FEDERAL #001	1	C-23-24S-32E	4985	[19090] DOUBLE X, DELAWARE
30-025-28754	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #005	1	F-14-24S-32E	4950	[19090] DOUBLE X, DELAWARE
30-025-28755	299027	MCI OPERATING OF NM, LLC	O	A	JENNINGS FEDERAL #006	1	J-14-24S-32E	4933	[19090] DOUBLE X, DELAWARE
30-025-28896	11830	J & G ENTERPRISE LTD. CO.	O	P	NEW MEXICO EH STATE #001	1	P-02-24S-32E	5233	[19090] DOUBLE X, DELAWARE
30-025-29180	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	I-12-24S-32E	5020	
30-025-29181	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #002	1	J-12-24S-32E	0	
30-025-29337	22223	TEMPO ENERGY INC	O	P	PAYNE FEDERAL #004	1	K-35-23S-32E	5030	[59930] TRISTE DRAW, DELAWARE
30-025-29338	22223	TEMPO ENERGY INC	O	P	PAYNE FEDERAL #005	1	F-35-23S-32E	5057	
30-025-29339	22223	TEMPO ENERGY INC	O	C	PAYNE FEDERAL #006	1	L-35-23S-32E	0	
30-025-30030	36986	WILSON OPERATING CO INC	O	P	SUN FEDERAL #001	1	P-33-23S-32E	7500	[96035] WILDCAT, GROUP 4
30-025-30113	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #006	1	N-11-24S-32E	5075	[19090] DOUBLE X, DELAWARE
30-025-30746	7377	EOG RESOURCES INC	G	A	DOUBLE ABJ STATE #001	1	B-16-24S-32E	15800	[92603] LEA UNDESIGNATED, STRAWN (GAS); [97026] DOUBLE X, STRAWN (GAS)
30-025-32069	25575	EOG Y RESOURCES, INC.	O	C	TRISTE DRAW ANH STATE #001	1	2-02-24S-32E	9999	
30-025-32110	25575	EOG Y RESOURCES, INC.	O	C	TRISTE DRAW ANH STATE #002	1	4-02-24S-32E	9999	
30-025-32199	25575	EOG Y RESOURCES, INC.	O	C	COTTON PLACE ANG FEDERAL #001	1	A-10-24S-32E	99999	
30-025-32200	25575	EOG Y RESOURCES, INC.	O	C	COTTON PLACE ANG FEDERAL #002	1	B-10-24S-32E	99999	
30-025-32879	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #001	1	J-34-23S-32E	10215	[59930] TRISTE DRAW, DELAWARE; [96603] TRISTE DRAW, BONE SPRING

API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
30-025-32998	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #002	1	O-34-23S-32E	10210	[59930] TRISTE DRAW, DELAWARE
30-025-33020	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 34 FEDERAL #003	1	G-34-23S-32E	10150	[59930] TRISTE DRAW, DELAWARE; [96603] TRISTE DRAW, BONE SPRING
30-025-33261	7377	EOG RESOURCES INC	O	P	DIAMONDTAIL 34 FEDERAL #004	1	H-34-23S-32E	10200	[59930] TRISTE DRAW, DELAWARE
30-025-33273	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	DIAMOND 34 FEDERAL #004	1	F-34-23S-32E	0	
30-025-33274	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	DIAMONDTAIL 34 FEDERAL #005	1	I-34-23S-32E	0	
30-025-33351	7377	EOG RESOURCES INC	O	P	DIAMOND 34 FEDERAL #003	1	N-34-23S-32E	10199	[59930] TRISTE DRAW, DELAWARE
30-025-33719	26485	BURLINGTON RESOURCES OIL & GAS CO	O	C	SAPPHIRE 3 FEDERAL #001	1	2-03-24S-32E	0	
30-025-34129	371484	ROVER OPERATING, LLC	O	A	WIMBERLY #007	1	H-11-24S-32E	5118	[19090] DOUBLE X, DELAWARE
30-025-35014	7377	EOG RESOURCES INC	O	A	DIAMONDTAIL 3 FEDERAL #001	1	2-03-24S-32E	9000	[59930] TRISTE DRAW, DELAWARE
30-025-35015	7377	EOG RESOURCES INC	O	A	DIAMOND 34 FEDERAL #001	1	F-34-23S-32E	9000	[59930] TRISTE DRAW, DELAWARE
30-025-40551	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #001H	1	N-02-24S-32E	9636	[96603] TRISTE DRAW, BONE SPRING
30-025-40700	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #001	1	A-12-24S-32E	11085	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40791	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #002H	1	B-12-24S-32E	11027	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40792	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #003H	1	C-12-24S-32E	11003	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40793	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 12 FEDERAL COM #004H	1	D-12-24S-32E	10933	[96674] TRIPLE X, BONE SPRING, WEST
30-025-40860	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #002H	1	M-02-24S-32E	9688	[96603] TRISTE DRAW, BONE SPRING
30-025-40861	4323	CHEVRON U S A INC	O	A	MCCLOY RANCH 2 24 32 STATE COM #004H	1	P-02-24S-32E	9573	[96603] TRISTE DRAW, BONE SPRING
30-025-40879	4323	CHEVRON U S A INC	O	C	MCCLOY RANCH 2 24 32 STATE COM #003C	1	O-02-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41469	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 11 FEDERAL COM #001H	1	A-11-24S-32E	10925	[96603] TRISTE DRAW, BONE SPRING
30-025-41470	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 11 FEDERAL COM #002H	1	B-11-24S-32E	10893	[96603] TRISTE DRAW, BONE SPRING
30-025-41471	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 11 FEDERAL COM #003H	1	C-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41472	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 11 FEDERAL COM #004H	1	D-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-41477	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 13 FEDERAL COM #003H	1	C-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41478	215099	CIMAREX ENERGY CO.	O	C	DOS EQUIS 13 FEDERAL COM #004H	1	D-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41480	215099	CIMAREX ENERGY CO.	O	A	DOS EQUIS 13 FEDERAL COM #002H	1	B-13-24S-32E	10937	[96674] TRIPLE X, BONE SPRING, WEST
30-025-41520	162928	ENERGEN RESOURCES CORPORATION	O	A	COX 35 FEDERAL #001H	1	P-35-23S-32E	11009	[96603] TRISTE DRAW, BONE SPRING
30-025-41521	162928	ENERGEN RESOURCES CORPORATION	O	A	COX 35 FEDERAL #002H	1	O-35-23S-32E	10927	[96603] TRISTE DRAW, BONE SPRING
30-025-42064	229137	COG OPERATING LLC	O	A	MASTIFF FEDERAL #003H	1	3-04-24S-32E	10652	[96229] MESA VERDE, BONE SPRING
30-025-42601	7377	EOG RESOURCES INC	O	N	PEGASUS 34 FEDERAL #001H	1	P-34-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-42602	7377	EOG RESOURCES INC	O	N	PEGASUS 34 FEDERAL #002H	1	P-34-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-42759	308339	OWL SWD OPERATING, LLC	S	H	MCCLOY SWD #001	1	L-15-24S-32E	5810	[96802] SWD, BELL CANYON-CHERRY CANYON
30-025-42947	308339	OWL SWD OPERATING, LLC	S	A	MCCLOY SWD #002	1	L-15-24S-32E	18776	[96101] SWD, DEVONIAN
30-025-43288	162928	ENERGEN RESOURCES CORPORATION	O	N	COX 35 FEDERAL #004H	1	O-35-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-43289	162928	ENERGEN RESOURCES CORPORATION	O	N	COX 35 FEDERAL #003H	1	P-35-23S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-44616	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	MODELO 10 FEDERAL COM #201H	1	A-10-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-45413	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 11 14 FEDERAL COM #004H	1	D-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING; [98309] WC-025 G-08 S243213C, WOLFCAMP
30-025-45414	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 11 14 FEDERAL COM #005H	1	C-11-24S-32E	0	[96603] TRISTE DRAW, BONE SPRING
30-025-45416	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 13 FEDERAL COM #009H	1	C-13-24S-32E	0	[98309] WC-025 G-08 S243213C, WOLFCAMP
30-025-45417	215099	CIMAREX ENERGY CO.	O	N	DOS EQUIS 13 FEDERAL COM #010H	1	C-13-24S-32E	0	[96674] TRIPLE X, BONE SPRING, WEST

Serial Number	Name1	TWN	RNG	SEC	Unit_Ltr
NMLC 0062269A	APACHE CORP	24S	32E	22	A,B,C
NMNM 029694	EXXONMOBIL OIL CORP	24S	32E	15	M,N
NMNM 029694	EXXONMOBIL OIL CORP	24S	32E	22	D
NMNM 029694	EXXONMOBIL OIL CORP	24S	32E	23	C
NMNM 055953	EOG RESOURCES INC	24S	32E	08	A,H
NMNM 055953	EOG RESOURCES INC	24S	32E	09	C,D,E,G,I,J,K,L,M,N,O,P
NMNM 062225	EOG RESOURCES INC	23S	32E	34	A,B,E,F,K,L,M,N
NMNM 077063	OXY Y-1 COMPANY	23S	32E	33	H,I,J,N,O,P
NMNM 090812	EOG RESOURCES INC	24S	32E	08	I
NMNM 094616	EOG RESOURCES INC	23S	32E	34	G,H,I,J,O,P
NMNM 094850	EOG RESOURCES INC	24S	32E	03	A,B,C,D,E,F,G,H,I,J,L,M,N,O,P
NMNM 111964	ECHO PROD INC	24S	32E	01	A,B,C,E,F,G,H,I,J,K,L,M,N,O,P
NMNM 111965	COG OPERATING LLC	24S	32E	04	A,B,C,D,E,F,G,H,I,J,L,M,N,O,P
NMNM 113964	DEVON ENERGY PROD CO LP	24S	32E	15	C
NMNM 113966	XTO ENERGY INC	24S	32E	23	D
NMNM 116574	DEVON ENERGY PROD CO LP	24S	32E	13	M
NMNM 119276	EOG Y RESOURCES INC	24S	32E	10	A,B,C,D,E,F,G,H,K,L,M,N
NMNM 120906	COG PRODUCTION LLC	24S	32E	05	I,P
NMNM 120906	COG PRODUCTION LLC	24S	32E	09	A,B,G,H
NMNM 120907	COG PRODUCTION LLC	24S	32E	23	A,B
NMNM 129262	ENERGEN RESOURCES CO	23S	32E	35	G,H,I,J,O,P
NMNM 136217	COG OPERATING LLC	23S	32E	35	C,D,E,F,K,L,M,N
NMNM 0001917	CHEVRON USA INC	24S	32E	10	I,J,O,P
NMNM 0001917	CHEVRON USA INC	24S	32E	11	C,D,E,F,I,J,O,P
NMNM 0001917	CHEVRON USA INC	24S	32E	12	C,D,E,F,I,J,O,P
NMNM 0002889	CONOCOPHILLIPS CO	24S	32E	03	K
NMNM 0002889	CONOCOPHILLIPS CO	24S	32E	11	A,B,G,H,K,L,M,N
NMNM 0002889	CONOCOPHILLIPS CO	24S	32E	12	A,B,G,H,K,L,M,N
NMNM 0033503	BABER GUY A	24S	32E	14	B,C,D,E,F,G,J,K,L,M,N,O,P
NMNM 0039880	CHEVRON USA INC	24S	32E	15	A,B,D,E,F,G,H,I,J,K,L,O,P
NMNM 0553548	CHEVRON USA INC	24S	32E	13	C,D,E,F,A,B,G,K,L
NMNM 0553642	CONOCOPHILLIPS CO	24S	32E	14	A,H,I

Lease Number	OGRID_CDE	OGRID_NAM	TWN	RNG	SEC	Unit_Ltr
V040950004	16696	OXY USA INC	24S	32E	16	C,D,E,F,K
V040950005	7377	EOG RESOURCES INC	24S	32E	16	A,B,G,H,I,J,O,P
V083030001	252846	CIMAREX ENERGY CO.	23S	32E	36	K,L,M,N,O
VB11700001	4323	CHEVRON U S A INC	24S	32E	02	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
23S	32E	33	H	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	33	I	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	33	J	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	33	N	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	33	O	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	33	P	4188138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	A	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	B	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	E	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	F	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	G	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	H	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	I	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	J	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	K	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	L	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	M	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	N	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	O	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	34	P	4189138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	C	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	D	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	E	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	F	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	G	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	H	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	I	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	J	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	K	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	L	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	M	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	N	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	O	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	35	P	4190138266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
23S	32E	36	K	4191138266266		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	32E	36	L	4191138266266		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	32E	36	M	4191138266266		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	32E	36	N	4191138266266		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	32E	36	O	4191138266266		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
24S	32E	01	B	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	C	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	D	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	E	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	F	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	G	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	H	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	I	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	J	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	K	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	L	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	M	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	N	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	O	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	01	P	4191139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	A	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	B	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	C	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	D	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	E	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	F	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	G	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	H	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	I	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	J	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	K	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	L	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	M	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	N	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	O	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	02	P	4190139265266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	A	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	B	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	C	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	D	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	E	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	F	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	G	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	H	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	I	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	J	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	K	4189139199333	4000051757008	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	03	L	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	M	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	N	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	O	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	03	P	4189139269262		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
24S	32E	04	A	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	B	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	C	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	D	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	E	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	F	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	G	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	H	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	I	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	J	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	K	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	L	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	M	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	N	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	O	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	04	P	4188139264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	05	I	4187139273285		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	05	P	4187139273285		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	08	A	4187140268265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	08	H	4187140268265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	08	I	4187140268265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	A	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	B	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	C	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	D	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	E	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	F	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	G	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	H	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	I	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	J	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	K	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	L	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	M	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	N	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	O	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	09	P	4188140266266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292

Table 2c
Surface Owners

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
24S	32E	10	A	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	B	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	C	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	D	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	E	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	F	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	G	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	H	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	I	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	J	4189140288421	4000051757006	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	10	K	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	L	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	10	M	4189140681467		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	10	N	4189140288421	4000051757006	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	10	O	4189140288421	4000051757006	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	10	P	4189140276212		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	A	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	B	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	C	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	D	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	E	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	F	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	G	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	H	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	I	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	J	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	K	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	L	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	M	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	N	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	O	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	11	P	4190140266267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	A	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	B	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	C	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	D	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	E	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	F	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	G	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	H	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	I	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	J	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	K	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	L	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	M	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	N	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	O	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	12	P	4191140264266		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
24S	32E	13	A	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	B	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	C	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	D	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	E	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	F	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	G	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	K	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	L	4191141264200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	13	M	4191141134463	4000051757005	VERSADO GAS PROCESSORS LLC	811 LOUISIANA STE 2100	HOUSTON	TX	77002
24S	32E	14	A	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	B	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	C	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	D	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	E	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	F	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	G	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	H	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	I	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	J	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	K	4190141331200		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	14	L	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	M	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	N	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	O	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	14	P	4190141177341	4000051757004	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	A	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	B	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	C	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	D	4189141110158		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	15	E	4189141110158		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	15	F	4189141110158		STATE OF NEW MEXICO	310 Old Santa Fe Trail	Santa Fe	NM	87501
24S	32E	15	G	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	H	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	I	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	J	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	K	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	L	4196141200499	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	M	4189141134466		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	15	N	4189141134466		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	15	O	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	15	P	4189141335253	4000051757003	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136

Township	Range	Section	Unit Letter	UPC	Parcel Code	Name	Address	City	State	Zip
24S	32E	16	A	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	B	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	C	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	D	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	E	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	F	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	G	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	H	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	I	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	J	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	K	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	O	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	16	P	4188141266265		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	22	A	4189142265267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	22	B	4189142265267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	22	C	4189142265267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	22	D	4189142265267		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292
24S	32E	23	A	4190142362103	4000051757002	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	23	B	4190142362103	4000051757002	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	23	C	4190142362103	4000051757002	NGL WATER SOLUTIONS PERMIAN LLC	6120 S YALE AVE SUITE 805	TULSA	OK	74136
24S	32E	23	D	4190142232322		BLM	620 E. Greene Street	Carlsbad	NM	88220-6292

Table 3
Produced Water

wellname	api	section	township	range	unit	county	state	company	field	formation	depth	labNo	sampleNo	sampleSource	waterType	sampleDate	analysisDate	ph	specificGravity	specificGravity Temp F	tds mg/L	resistivity ohm cm	conductivity	conductivity Temp F	sodium mg/L	calcium mg/L	iron mg/L	barium mg/L	magnesium mg/L	manganese mg/L	chloride mg/L	bicarbonate mg/L	sulfate mg/L	co2 mg/L	generalRemarks	Corrected	
MESA VERDE 6 FEDERAL #006	3002532397	6	24S	32E	K	Lea	NM									2/6/2015 0:00	7.24			87932.4				29224.9	1557.4	55.7		289.6		0.82	52394.8	1967.7	0	5.9		FALSE	
BELL LAKE 24 FEDERAL #004H	3002541304	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						2/6/2015 0:00	6.4							49481	7987	41		1034		0.25	93721	110	670	230		FALSE	
BELL LAKE 24 FEDERAL #002H	3002541306	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						2/6/2015 0:00	6.4							49481	7987	41		1034		0.25	93721	110	670	230		FALSE	
MESA VERDE 7 FEDERAL #002	3002532398	7	24S	32E	B	Lea	NM									8/6/2003 0:00	5.92			269260.4				78454.4	181.0	25		3339			165386			556	430		FALSE
COTTON DRAW 33 4 FEDERAL COM #001H	3002541263	33	24S	32E	D	Lea	NM			DELAWARE-BRUSHY CANYON						10/8/2015 0:00	6.6			253483	0.0498			72811.5	15695.3	47.4		2581.4		3.5	159430.7		401.8	200		FALSE	
COTTON DRAW 33 4 FEDERAL COM #002H	3002541264	33	24S	32E	C	Lea	NM			DELAWARE-BRUSHY CANYON						10/8/2015 0:00	6.6			249333	0.05039			71579.8	16716	38.7		2758.3			155226.8		405.7	300		FALSE	
HANAGAN 8 FEDERAL #001	3002508151	15	24S	32E	O	Lea	NM		DOUBLE X	DELAWARE	4902	MN08151	2761			1/1/1964 0:00	7.1	1.156	82		229813			65198	18727			3040			142188	168	491		REPORTED AS FED HANAGAN 1	TRUE	
MESA VERDE 6 FEDERAL #005	3002532504	6	24S	32E	G	Lea	NM									3/18/2014 0:00	6.6			270168				67097	17710	48		2994		5	156376		429	300		FALSE	
MESA VERDE 6 FEDERAL #004	3002532614	6	24S	32E	F	Lea	NM									3/18/2014 0:00	5.8			259374				69354	19301	86		3113		5.5	163682		732	0	600		FALSE
MESA VERDE 6 FEDERAL #010	3002527271	6	24S	32E	D	Lea	NM			AVALON LOWER						3/18/2014 0:00	6.9			141332				48380	556	215		214		3	88816	2318	1529	700		FALSE	
MESA VERDE 7 FEDERAL #003	3002539444	7	24S	32E	N	Lea	NM									3/18/2014 0:00	6			260512				70324	20074	136		2913		9	162623		707	0	700		FALSE
BELL LAKE 24 FEDERAL #002H	3002541306	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						10/26/2014 0:00	6			144311.4				43568.1	6384.7	36.9		722.5		0	91835		244	0	150		FALSE
COTTON DRAW 32 STATE FEDERAL COM #001H	3002540583	32	24S	32E	K	Lea	NM			DELAWARE-BRUSHY CANYON						10/30/2014 0:00	6.2			190416				79303.8	14340	39		1817.4		2.19	121155.4		1122	0	200		FALSE
MESA VERDE 6 FEDERAL #003	3002536466	6	24S	32E	O	Lea	NM									11/18/2014 0:00	6			281924.3				74484.4	24247.3	188.8		3585		10.33	175354.2		122	0	900		FALSE
BELL LAKE 24 FEDERAL #004H	3002541304	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						3/23/2015 0:00	6.4							71342	6157	15		789		0	123333		110	650	180		FALSE
BELL LAKE 24 FEDERAL #002H	3002541306	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						3/23/2015 0:00	6.1							75306	6201	20		822		0	128954		134	1400	200		FALSE
COTTON DRAW 32 STATE FEDERAL COM #003H	3002541371	32	24S	32E	K	Lea	NM			DELAWARE-BRUSHY CANYON						4/23/2015 0:00	6.1			240651.8	0.04869			79303.8	14340	39		1817.4		2.19	121155.4		1122	0	200		FALSE
BELL LAKE 24 FEDERAL #001H	3002541182	24	24S	32E	M	Lea	NM			BONE SPRING 2ND SAND						4/23/2015 0:00	6.1							49757	11569	46		1432		0.66	102546		1	590	220		FALSE
BELL LAKE 24 FEDERAL #004H	3002541304	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						4/23/2015 0:00	6.2							53368	13208	41		1460		0.04	111033		110	600	310		FALSE
BELL LAKE 24 FEDERAL #002H	3002541306	24	24S	32E	O	Lea	NM			BONE SPRING 2ND SAND						4/23/2015 0:00	6.1							53395	12985	69		1535		0.8	110763		134	680	240		FALSE
MESA VERDE 6 FEDERAL #002	3002532302	6	24S	32E	J	Lea	NM									4/26/2004 0:00	7			264806.4				66218.4	26276	45		4083			163501		207	360	415		FALSE
MESA VERDE 6 FEDERAL #005	3002532504	6	24S	32E	G	Lea	NM									6/28/2005 0:00	5.5			252733.3				78442.9	14244	185		2571			155117		124.4	301		FALSE	
MESA VERDE 7 FEDERAL #001	3002532398	7	24S	32E	B	Lea	NM									4/26/2006 0:00	5.4			284294.6				88707.6	15790	18		2463		5.5	173902		41.5	562	130		FALSE
MESA VERDE 7 FEDERAL #002	3002532399	7	24S	32E	C	Lea	NM									4/26/2006 0:00	5.3			254366.5				83270.3	11000	31		1992		2	154361		103.7	1531	170		FALSE
MESA VERDE 6 FEDERAL #002	3002532302	6	24S	32E	J	Lea	NM									4/27/2006 0:00	5.8			276334.1				86757.1	14650	12		2350		4.5	160346		585	125		FALSE	
MESA VERDE 6 FEDERAL #006	3002532397	6	24S	32E	K	Lea	NM									4/27/2006 0:00	5.9			147698.1				54766.4	1465	7		305		0.3	85458		933.3	3804	50		FALSE
MESA VERDE 6 FEDERAL #005	3002532504	6	24S	32E	G	Lea	NM									4/27/2006 0:00	5.5			263977.4				81596.2	15110	55		2564		3.5	161650		103.7	567	135		FALSE
MESA VERDE 6 FEDERAL #007	3002532613	6	24S	32E	B	Lea	NM									4/27/2006 0:00	5.5			281274				78802.8	21630	52		3429		8	172928		145.2	311	130		FALSE
MESA VERDE 6 FEDERAL #008	3002532614	6	24S	32E	F	Lea	NM									4/27/2006 0:00	5.7			281832.3				79586.3	21150	21		3716		6.5	173394		83	607	225		FALSE
MESA VERDE 6 FEDERAL #014	3002532753	6	24S	32E	C	Lea	NM									4/27/2006 0:00	5.7			265732.6				79303.8	14340	39		2457		1.28	155204		83	1128	150		FALSE
MESA VERDE 7 FEDERAL #007	3002533103	7	24S	32E	D	Lea	NM									4/27/2006 0:00	5.6			89236.3				14080	41			2254		5	170447		83	1028	150		FALSE
MESA VERDE 6 FEDERAL #003	3002536466	6	24S	32E	O	Lea	NM									4/27/2006 0:00	5.5			278285.6				91948.4	11950	21		1840		4.5	169963		62.2	301	110		FALSE
MESA VERDE 6 FEDERAL #009	3002536467	6	24S	32E	N	Lea	NM									4/27/2006 0:00	5.6			254889.5				83833	10820	56		1907		2.5	154684		83	1491	225		FALSE
MESA VERDE 6 FEDERAL #004	3002532504	6	24S	32E	P	Lea	NM									5/1/2007 0:00	5.5			246992.2				84699	13468	71		2198			161489		392	1562		FALSE	
COTTON DRAW 32 STATE FEDERAL COM #001H	3002540583	32	24S	32E	I	Lea	NM			DELAWARE-BRUSHY CANYON						5/16/2014 0:00	6.1			250315.4				74640.5	18096.3	33.1		3033.1		2.53	151462		122	0	300		FALSE
COTTON DRAW 32 STATE FEDERAL COM #001H	3002540583	32	24S	32E	I	Lea	NM			DELAWARE-BRUSHY CANYON						5/16/2014 0:00	6.1			250489				74640.5	18096.3	33.1		3033.1		2.53	151462		122	608	300		FALSE
BELL LAKE 24 FEDERAL #001H	3002541182	24	24S	32E	M	Lea	NM			BONE SPRING 2ND SAND						6/26/2014 0:00	6.6			155546				52719.6	7372.9	42.9		851.8		1.3	91918		122	799	300		FALSE
MESA VERDE 6 FEDERAL #001	3002532302	6	24S	32E	J	Lea	NM									12/12/2014 0:00	6.9			270965.8				79714.9	10623.4	42.5		2954			155181.1		24.4	0	240		FALSE
MESA VERDE 7 FEDERAL #002	3002532398	7	24S	32E	B	Lea	NM									12/12/2014 0:00	6.92			253400.9				70901.7	20723.2	32.9		3012.4		6.9	155181.1		36.6	0	360		FALSE
MESA VERDE 7 FEDERAL #002	3002532399	7	24S	32E	C	Lea	NM									12/12/2014 0:00	6.87			249018.4				76614.7	12874.5	39.1		2109.7		2.28	154729.2		24.4	0	360		FALSE
MESA VERDE 6 FEDERAL #007	3002532613	6	24S	32E	B	Lea	NM									12/12/2014 0:00	6.86			256555.1				77637.8	16794	46.4		2688.4		3.11	156655.5		24.4	0	250		FALSE
MESA VERDE 6 FEDERAL #001	3002532753	6	24S	32E	C	Lea	NM									12/12/2014 0:00	6.84			258132.3				77148.3	16317.4	47.6		2633		2.97	159717		24.4	0	240		FALSE
MESA VERDE 7 FEDERAL #007	3002533103	7	24S	32E	D	Lea	NM									12/12/2014 0:00	6.85			265901.2				76369.9	20703.5	58.1		2990		8.23	162372.7		24.4	0	370		FALSE
MESA VERDE 6 FEDERAL #009	3002536467	6	24S	32E	N	Lea	NM									12/12/2014 0:00	6.9			240679.8				74554	12265	32.4		2006.8		2.21	149239.8		36.6	0	250		FALSE
MESA VERDE 6																																					

[illegible]

OCD Well Reports

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised August 1, 2011		
		1. WELL API NO.			30-025-42947		
		2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN					
		3. State Oil & Gas Lease No.					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)				5. Lease Name or Unit Agreement Name McCloy SWD 6. Well Number: No.2			
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER							
8. Name of Operator Owl SWD Operating, LLC				9. OGRID 308339			
10. Address of Operator 8214 Westchester Dr., Ste.850, Dallas, TX 75225				11. Pool name or Wildcat SWD; Devonian (96101)			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	
Surface:	L	15	24-S	32-E		1595'	
BH:							
13. Date Spudded 5/11/2017	14. Date T.D. Reached 10/08/2017	15. Date Rig Released 10/13/2017		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.) 3599' G.L.	
18. Total Measured Depth of Well 18,776'		19. Plug Back Measured Depth 18,750'		20. Was Directional Survey Made? No		21. Type Electric and Other Logs Run Mudlog - TripleCombo - CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name 17,221' to 18,750' - Devonian/ Silurian/ Fusselman							
23. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.		DEPTH SET		HOLE SIZE	CEMENTING RECORD	
20.0"	133.0#		1134'		26.0"	1045 sx	
13.625"	88.2#		5747'		17.5"	1750 sx	
9.625"	53.5#		12,988'		12.25"	3100 sx	
7.75"	46.1#		17,208'		8.5"	225 sx)	
24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	
7.75"	12,800'	17,208'			5.5"	17,140'	
						17,146'	
26. Perforation record (interval, size, and number) Open hole 17,208' to 18,750'				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 			
28. PRODUCTION							
Date First Production N/A		Production Method (Flowing, gas lift, pumping - Size and type pump)			Well Status (Prod. or Shut-in) Shut-In (waiting on MIT, start injection)		
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	
						Gas - Oil Ratio	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.)					30. Test Witnessed By		
31. List Attachments Current wellbore schematic							
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							
33. If an on-site burial was used at the well, report the exact location of the on-site burial:							
Latitude		Longitude		NAD 1927 1983			
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature E-mail Address		Printed Name		Title		Date	
ben@sosconsulting.us		Ben Stone		Agent for Owl SWD Operating, LLC		10/23/2017	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Rustler 1283'		T. Kirtland	T. Penn. "B"
B. Salado 1363'	T. MissLm 16667'	T. Fruitland	T. Penn. "C"
T. Yates	T. Woodford 17012'	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian 17205'	T. Cliff House	T. Leadville
T. Queen	T. Fusselman 17994'	T. Menefee	T. Madison
T. Grayburg	T. Montoya 18706'	T. Point Lookout	T. Elbert
T. Delaware Sand 4803'	T. Simpson	T. Mancos	T. McCracken
T. Wolfcamp 12380'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Wolfcamp 12380'	T. Ellenburger	Base Greenhorn	T. Granite
T. Strawn 14020'	T. Gr. Wash	T. Dakota	
T. Atoka 14234'	T.	T. Morrison	
T. Morrow 14980'	T. Bone Springs 8700'	T. Todilto	
T. Lwr. Morrow 15750'	T. 2 nd BS Carbonate 10086'	T. Entrada	
T. Barnett 16277'	T. 2 nd BS Sand 10400'	T. Wingate	
T. Penn	T. 3rd BS Sand 11676'	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
16277	16667	345	SHALE: drk gry,gry,drk brn, brn,sme blk,blk,y,sft c gmm y sme mod frm,v/lmy, erthy,sme v/sity				
16667	17012	193	SHALE: blk,drk gry,gry,drk brn,sbbiky-blky				
17012	17205	789	LIMESTONE: off-wht,tn,crm,wht,mott,drk brn				
17205	17994	712	SHALE: lt gry,gry,drk gry,blk,sbbiky-blky,sft,sm mod frm,rthy-sity txt sm v/lmy ip,sm pyrt incl				
			DOLOMITE: off wht,mlky,clr, wht,transl,opque micro xln,sm v/fn xln, mod dns,frm-v/frm,sm				
			mod hrd,tr brttle, tr lmy incl,no vis por				
17994	18706	70	LIMESTONE:off wht,crm,lt gry,sm drk brn,v/fn xln,sm micro xln,mott,mod dns,sucro ip,brttl				
18706	18776		LIMESTONE/ DOLOMITE/ CHERT				
			LIMESTONE: drk brn,brn,crm,off wht,wht,v/fn- micro xln,brttl,silic,sm				

OSE Well Logs ž . ĩ î Å é î ! ò Å Á ĩ Æ 2 Å Ö É Å ×

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

July 16, 2019

Hobbs News Sun
201 N. Thorp
P.O. Box 850
Hobbs, N.M. 88240

LEGAL NOTICE

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Mercury Fed SWD #1 will be located 1220 feet from the north line and 400 feet from the east line of Section 10, Township 24 South, Range 32 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Fusselman Formations at a depth of 17,680-18,955 feet at a maximum surface pressure of 3,500 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 25.5 miles east-southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

Additional information can be obtained by contacting Mr. Randall Hicks, agent for Solaris Water Midstream, at 505-238-9515.

Sincerely,
R.T. Hicks Consultants



Randall Hicks
Principal

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
July 25, 2019
and ending with the issue dated
July 25, 2019.



Publisher

Sworn and subscribed to before me this
25th day of July 2019.



Business Manager

My commission expires
January 29, 2023

(Seal)



OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGALS

LEGAL NOTICE JULY 25, 2019

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Mercury Fed SWD #1 will be located 1220 feet from the north line and 400 feet from the east line of Section 10, Township 24 South, Range 32 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Fusselman Formations at a depth of 17,680-18,955 feet at a maximum surface pressure of 3,500 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 25.5 miles east-southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

Additional information can be obtained by contacting Mr. Randall Hicks, agent for Solaris Water Midstream, at 505-238-9515.
Sincerely,
R.T. Hicks Consultants
Randall Hicks
Principal
#34488

67115764

00231230

RANDALL HICKS
R.T. HICKS CONSULTANTS, LTD
901 RIO GRANDE BLVD NM
SUITE F-142
ALBUQUERQUE, NM 87104

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

July 22, 2019

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Solaris Water Midstream, LLC, Midland, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete, for salt water disposal, the Mercury Fed SWD #1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is in Section 10, Township 24 South, Range 32 East in Lea County, New Mexico.

An electronic copy of the permit application can be downloaded at:

<https://rthicks.egnyte.com/dl/KS4zr2n4g4/C108MercuryAssemblySigned.pdf>

The published notice states that the interval will be from 17,680-18,955 feet into the Devonian and Fusselman Formations.

LEGAL NOTICE

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, Texas 79706 filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Mercury Fed SWD #1 will be located 1220 feet from the north line and 400 feet from the east line of Section 10, Township 24 South, Range 32 East in Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian and Fusselman Formations at a depth of 17,680-18,955 feet at a maximum surface pressure of 3,500 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 25.5 miles east-southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

You have been identified as a party who may be interested as an offset lessee or operator.

Thank you for your attention in this matter. If you have any problems downloading the permit application, please contact me at r@rthicksconsult.com.

Sincerely,
R.T. Hicks Consultants



Randall Hicks
Principal

Bureau of Land Management
Mercury Fed SWD #1
620 E. Greene Street
Carlsbad, NM 88220-6292

CHEVRON U S A INC
Mercury Fed SWD #1
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

CIMAREX ENERGY CO.
Mercury Fed SWD #1
600 N. Marienfeld Street
Suite 600
Midland, TX 79701

COG OPERATING LLC
Mercury Fed SWD #1
600 W Illinois Ave
Midland, TX 79701

ConocoPhillips
Mercury Fed SWD #1
Attn: Lakeiva Noel
PO Box 2197
Houston, TX 77252

DEVON ENERGY PROD. CO., LP
Mercury Fed SWD #1
333 West Sheridan Ave.
Oklahoma City, OK 73102

EOG RESOURCES INC
Mercury Fed SWD #1
P.O. Box 2267
Midland, TX 79702

EOG Y RESOURCES, INC.
Mercury Fed SWD #1
104 S 4TH ST
ARTESIA, NM 88210

Guy Baber
Mercury Fed SWD #1
Baber Well Service
PO BOX 1772
HOBBS, NM 88240

MCI OPERATING OF NM, LLC
Mercury Fed SWD #1
7505 Memorial Woods # 60
Houston, TX 77024

New Mexico State Land Office
Mercury Fed SWD #1
310 Old Santa Fe Trail
Santa Fe, NM 87501

NGL WATER SOLUTIONS PERMIAN
Mercury Fed SWD #1
6120 S YALE AVE SUITE 805
TULSA, OK 74136

PRIMAL ENERGY CORPORATION
Mercury Fed SWD #1
21021 SPRINGBROOK PLAZA DR.
SUITE 160
SPRING, TX 77379

ROVER OPERATING, LLC
Mercury Fed SWD #1
17304 Preston Road
Suite 300
Dallas, TX 75252

TAHOE ENERGY INC
Mercury Fed SWD #1
3909 W INDUSTRIAL
MIDLAND, TX 79703

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HOBBS, NM 88241

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Postage	\$0.55
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City, State, ZIP+4®	ONE CONCHO CENTER 600 W. ILLINOIS AVENUE MIDLAND, TX 79701

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☐ Adult Signature Required	\$0.00
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Postage \$0.55

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Postage \$0.55

Total Postage and Fees \$4.05

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Postage \$0.55

Total Postage and Fees \$4.05

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Total Postage and Fees \$4.05

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Sent To **PRIMAL ENERGY CORPORATION**
Mercury Fed SWD #1
21021 SPRINGBROOK PLAZA DR.
Street and Apt. No., or PO Box No. SUITE 160
City, State, ZIP+4® **SPRING, TX 77379**

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Total Postage and Fees \$6.85

Sent To **ROVER OPERATING, LLC**
Mercury Fed SWD #1
17304 Preston Road
Street and Apt. No., or PO Box No. Suite 300
City, State, ZIP+4® **Dallas, TX 75252**

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Postage \$0.55

Total Postage and Fees \$6.85

Sent To **Tahoe Energy Inc**
mercury Fed SWD #1
3909 W. Industrial
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City, State, ZIP+4® **Midland, TX 79703**

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Artesia ▲ Carlsbad ▲ Durango ▲ Midland

July 29, 2019

Mr. Phillip Goetze, P.G.
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Solaris Water Midstream, LLC., Mercury Fed SWD#1
Unit Letter A, Section 10 T24S R32E, Lea County

Dear Mr. Goetze:

On behalf of Solaris Water Midstream, LLC., R.T. Hicks Consultants is providing data and an opinion regarding the probability that injection of wastewater in the above referenced well at the proposed rates will cause seismic events of sufficient magnitude to create damage. It is our understanding that OCD is interested in such an opinion as part of the SWD approval process. We elected to provide this opinion as a separate submission as the C-108 does not specifically require such an opinion.

We relied upon the following data to develop our opinion

- State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity, Jens-Erik Lund Snee and Mark D. Zoback, The Leading Edge, February 2018¹
- Plate 5, which is reproduced from the Snee and Zoback publication, which uses the following references
 - Crone, A. J., and R. L. Wheeler, 2000, Data for Quaternary faults, liquefaction features, and possible tectonic features in the Central and Eastern United States, east of the Rocky Mountain front; U.S. Geological Survey Open-File Report.
 - Ewing, T. E., R. T. Budnik, J. T. Ames, and D. M. Ridner, 1990, Tectonic map of Texas: Bureau of Economic Geology, University of Texas at Austin.
 - Green, G. N., and G. E. Jones, 1997, a digital geologic map of New Mexico in ARC/INFO format: U.S. Geological Survey Open-File Report.
 - Ruppel, S. C., R. H. Jones, C. L. Breton, and J. A. Kane, 2005, Preparation of maps depicting geothermal gradient and Precambrian structure in the Permian Basin: USGS Order no. 04CRSA0834 and Requisition no. 04CRPR01474.
 - NMOCD database of oil and gas wells
- Plate 5, which shows the distribution of active and new SWD wells in the area of the proposed AWR Disposal SWD well
- Stratigraphic and lithologic information from two deep wells in the Delaware Basin
- Data on the thickness and lithology of the Simpson Group from the Texas Bureau of Economic Geology²

¹ https://scits.stanford.edu/sites/default/files/3702_tss_lundsnee_v2.pdf

² http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf

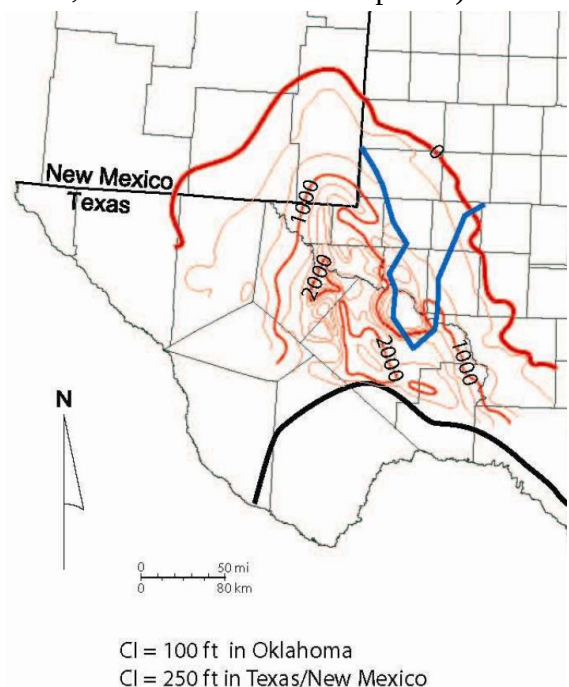
Plate 5 reproduces Figure 3 of the 2018 publication of Snee and Zoback and shows

1. Fault traces based upon the references provided above for which Dr. Snee and Dr. Zoback provide a value of the fault slip potential (FSP)
2. Areas of documented seismic activity, such as the Dagger Draw area and a magnitude 2.0-2.9 earthquake that occurred between 1970-2004 about 6-miles northeast of the proposed Mercury Fed SWD #1. A slightly larger magnitude and more recent seismic event is reported about 25 miles east of the Mercury Fed SWD #1 well location.
3. Although Plate 5 does not show faults that may be identified in confidential seismic data owned by oil and gas operators, the mapped fault that is closest to the Mercury Fed SWD #1 (about 8.0 miles to the east) exhibits a low FSP (less than 5%) based upon the modeling and analysis of Snee and Zoback referenced above
4. Other mapped faults in southern Lea and Eddy Counties shown on Plate 5 also show a low FSP. Thirty and forty-miles to the west are two southwest-northeast trending faults. Portions (10 and 20 miles in length) of these faults have an FSP of 20 to 30%. About 30-miles to the east are several short (1-2 mile) fault segments also having an FSP of 20 to 30%.

Plate 6 reproduces the major elements of Plate 5 in the inset map and also shows that within a 6-mile radius around the proposed Mercury Fed SWD #1, the OCD database shows 7 active and 5 new/proposed Devonian SWDs, which translates into an average density of about one SWD for every 2.35 square miles.

Figure 4 from the referenced Bureau of Economic Geology (The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, And Reservoir Development) is attached to this letter and the portion of that figure for the Delaware Basin is shown to the right. In southern Lea County the mapped thickness appears to be 500-1500 feet thick (note one contour line appears to be missing on the map). This unit, which is clay-rich carbonate interbedded with shale and sandstone, provides an excellent permeability/pressure barrier between the injection zone and the basement faults that were re-activated during Woodford time.

Data from the Amoco Federal CW Com 1 (3002528119) show that the thickness of the Simpson in the Antelope Ridge area of Lea County (Section 3 24S 34E) is about 450 feet thick. This data point is about 10-miles northeast of the Mercury Fed SWD, and is consistent with Figure 4 of the BEG paper (probably because this well was used to produce the isopach map).



We contend that the data permit conclusion that unmapped faults (which may be located by confidential seismic data that Solaris Midstream

July 17, 2019

Page 3

Water does not possess) near the Mercury Fed SWD #1 would be dominantly north-south normal faults, as is common in Lea County. The data on Plate 6 permit a conclusion that faults near the Mercury Fed SWD #1 are also most likely to exhibit a low FSP, like the mapped faults shown on Plate 5.

Given the density of Devonian SWDs (planned/new and active) near the proposed Mercury Fed SWD #1 well and the high likelihood that any unmapped faults in the area would exhibit a low FSP, the probability that injection into the Mercury Fed SWD #1 would cause an increase in pore pressure to trigger a seismic event of sufficient magnitude to cause damage is very low.

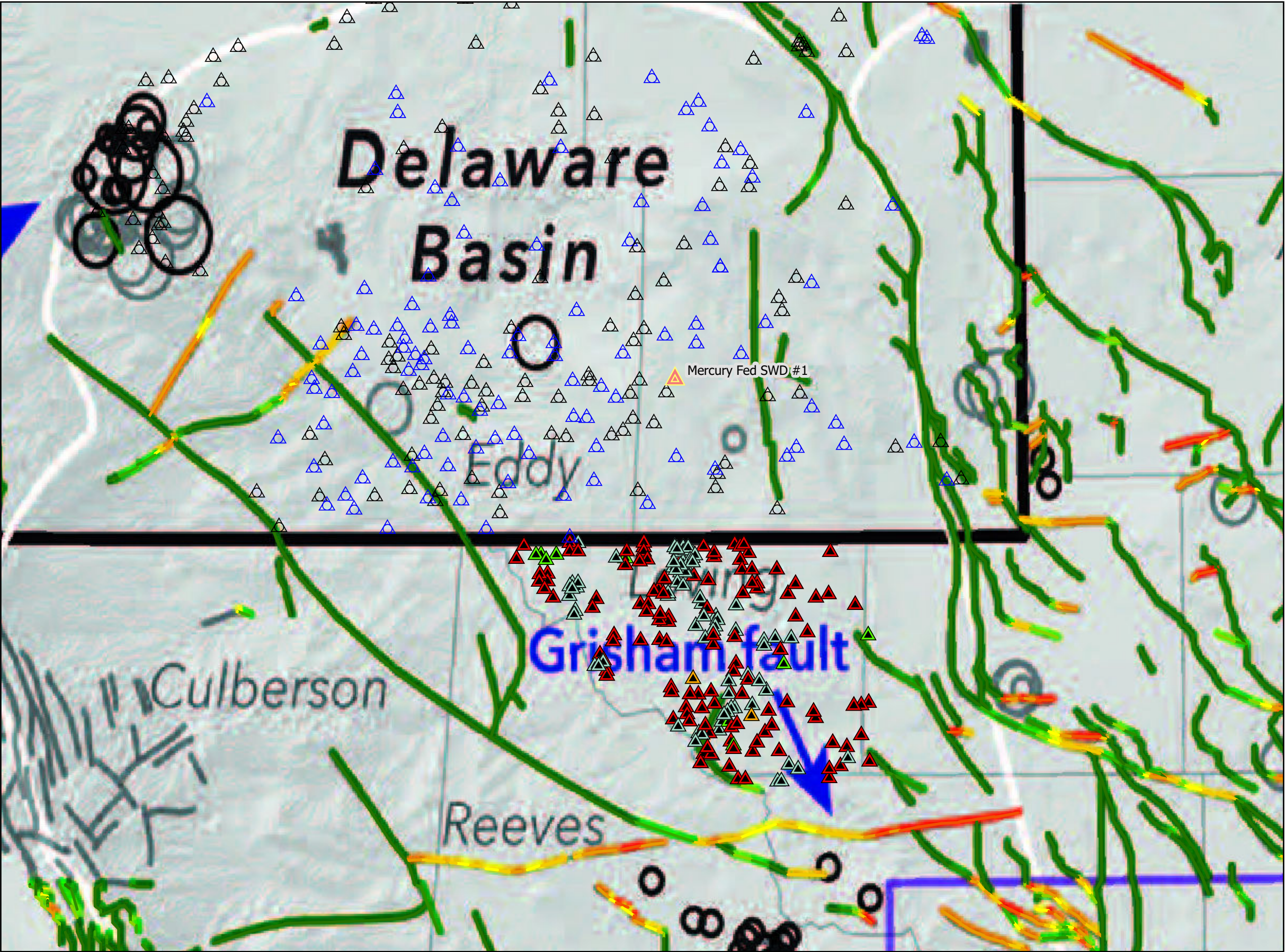
The users of this letter should recognize the uncertainties of using seismic maps of the Permian Basin to determine probability that injection of wastewater into a single SWD well could cause seismic events of sufficient magnitude to cause damage. However, on a regional basis injection by numerous wells into the Devonian/Fusselman/Montoya interval will raise the hydrostatic pressure. If pressure increases sufficiently, fluid could migrate from the injection zone along fault planes, up and down. Downward fluid migration will be intercepted first by the sandstone units of the Simpson Group. After fluid pressure increases in these sandstones, fluid would migrate downward into the Ellenberger Formation, which lies beneath the Simpson Group. This downward migration will next enter the permeable units of the Ellenberger and, over time, increase the fluid pressure. After fluid pressure in the Ellenberger is sufficiently large to cause downward migration along fault planes or other conduits, the migrating fluid will, in some areas, enter a thinner horizon of granite wash. Downward migrating fluids from the injection zone could then enter basement fault planes if the pressure in the granite wash horizon is sufficient, and reduce the frictional resistance (lubricate the faults). Reduction in the frictional force in faults due to fluid invasion can and has caused seismic events. In my opinion, the probability that injection into the Mercury Fed SWD will measurably contribute to the events described above and will cause a seismic event resulting in damage is so low as to be nil.

Sincerely,
R.T. Hicks Consultants

A handwritten signature in black ink, appearing to read "Randall T. Hicks".

Randall T. Hicks
Principal

Copy: Solaris Water Midstream, LLC



SWD

well301s (Loving, TX)

Loving, Tx Oil and Gas Wells

Injection/Disposal From Gas

Injection/Disposal From Oil

Injection/Disposal From Oil/Gas

Injection/Disposal Well

OCD Wells

Salt Water Injection, Active

Salt Water Injection, New

Seismicity:

M_w 2.0-2.9

Since 2005

M_w 3.0-3.9

1970-2004

M_w 4.0+

Fault slip potential (%):

0

10

20

30

40

50+

Seismic and Fault Slip Potential-
Ewing et al. (1990), Green and Jones (1997), Ruppel
et al. (2005), and the USGS Quaternary Faults and
Folds Database (Crone and Wheeler, 2000).

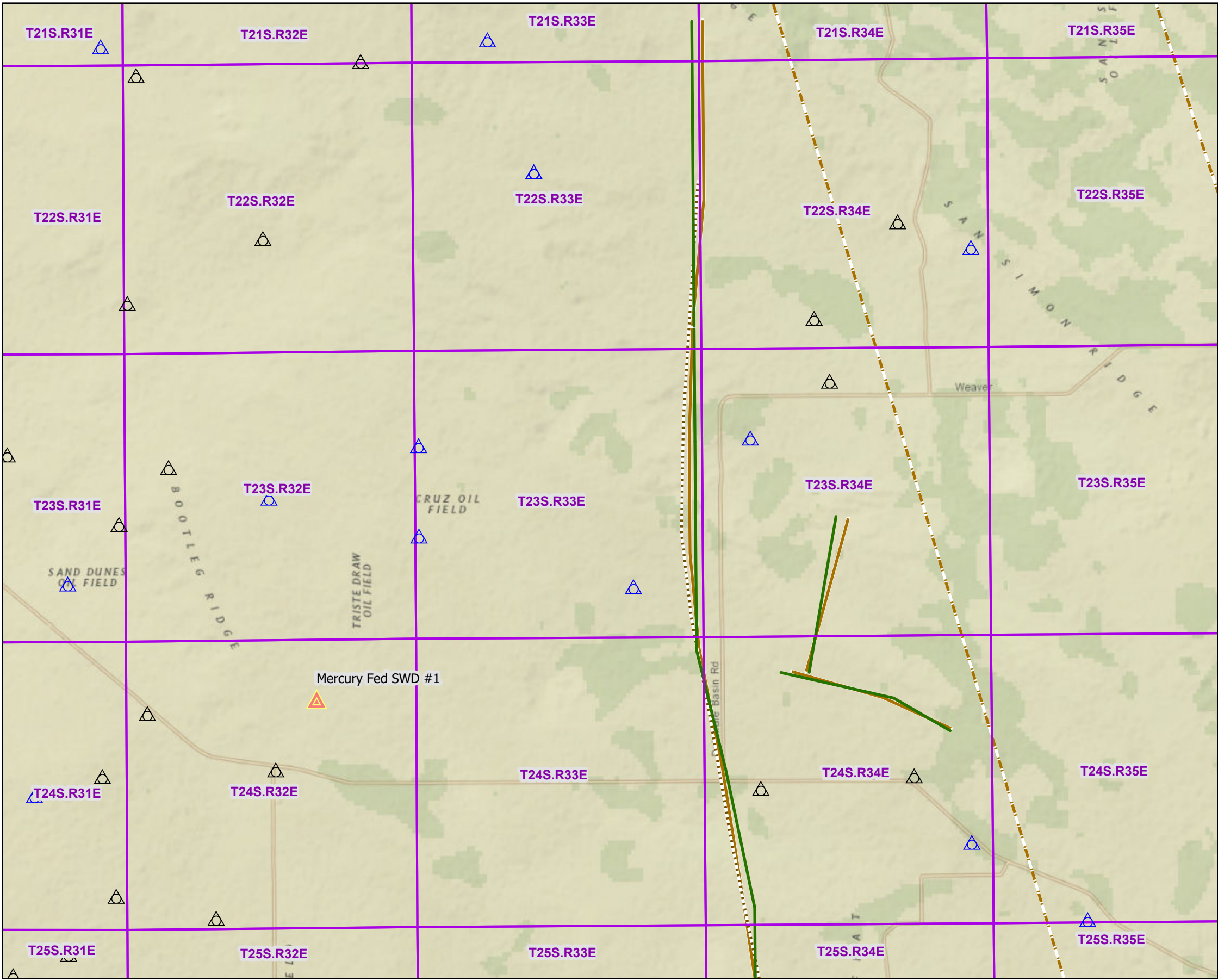
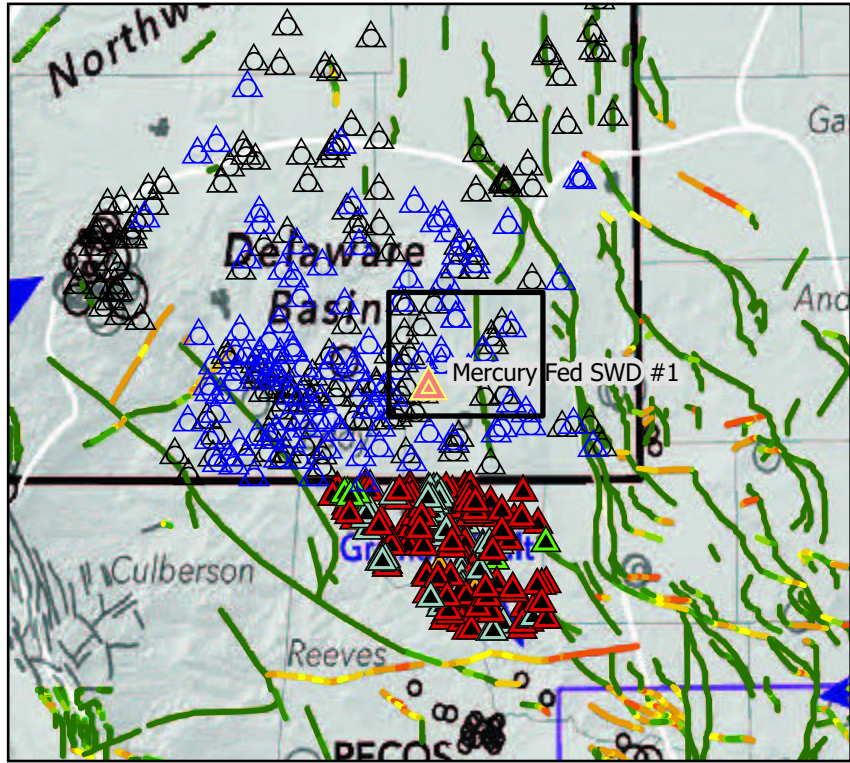


R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Seismicity and Fault Slip Potential Relative to
SWD and Injection Wells
Solaris Water Midstream
Mercury Fed SWD #1

Plate 5

June 2019



- SWD
- Oil and Gas (NMOCD)
- Salt Water Injection, Active
- Salt Water Injection, New
- Faults
- Fault - Woodford
- Fault - Precambrian
- Fault - Basement
- Fault Slip Potential (%)
- <5

Seismic and Fault Slip Potential-
Ewing et al. (1990), Green and Jones (1997), Ruppel
et al. (2005), and the USGS Quaternary Faults and
Folds Database (Crone and Wheeler, 2000).



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Ph: 505.266.5004

Fault Slip Potential Relative to
SWD and Injection Wells
Solaris Water Midstream
Mercury Fed SWD #1

Plate 6

June 2019