

Application

Part *II*

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Table 1
NM Oil and Gas Wells within 2 Miles

API	OGRID	OGRID Name	Well Type	Status	Well Name	UL-S-T-R	Total Depth	Associated Pools
30-025-41360	4323	CHEVRON U S A INC	O	A	LIMESTONE 11 23 33 FEDERAL #001H	D-11-23S-33E	11113	[7320] BRINNINSTOOL, BONE SPRING
30-025-42831	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	NORTH THISTLE 2 35 FEDERAL #001H	2-02-23S-33E	10959	[7320] BRINNINSTOOL, BONE SPRING
30-025-42821	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	NORTH THISTLE 2 STATE #002H	2-02-23S-33E	10998	[7320] BRINNINSTOOL, BONE SPRING
30-025-42630	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	BLACK MAMBA 15 STATE COM #008H	P-10-23S-33E	10798	[7320] BRINNINSTOOL, BONE SPRING
30-025-42465	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	NORTH THISTLE 34 STATE COM #001H	M-34-22S-33E	10963	[7320] BRINNINSTOOL, BONE SPRING
30-025-42277	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	TAIPAN 10 STATE COM #008H	D-15-23S-33E	9296	[96724] CRUZ, DELAWARE, NORTHEAST
30-025-42631	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	BLACK MAMBA 15 STATE COM #009H	P-10-23S-33E	11143	[7320] BRINNINSTOOL, BONE SPRING
30-025-42623	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	BLACK MAMBA 15 STATE COM #007H	P-10-23S-33E	11162	[7320] BRINNINSTOOL, BONE SPRING
30-025-42533	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	NORTH THISTLE 2 STATE #001H	2-02-23S-33E	9576	[7320] BRINNINSTOOL, BONE SPRING
30-025-40173	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	BLACK MAMBA 15 STATE COM #002H	D-15-23S-33E	11230	[14865] CRUZ, BONE SPRING; [96724] CRUZ, DELAWARE, NORTHEAST
30-025-40743	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	TAIPAN 10 STATE COM #001H	D-15-23S-33E	11220	[7320] BRINNINSTOOL, BONE SPRING; [14865] CRUZ, BONE SPRING; [96724] CRUZ, DELAWARE, NORTHEAST
30-025-33387	16696	OXY USA INC	S	A	DIAMOND 34 STATE #001	N-34-22S-33E	9060	[96802] SWD, BELL CANYON-CHERRY CANYON
30-025-37082	4323	CHEVRON U S A INC	G	A	GURNEY 3 STATE #001	K-03-23S-33E	15665	[97468] PRONGHORN, MORROW, EAST (GAS)
30-025-40858	217955	COG PRODUCTION, LLC	O	A	SOPAPILLA STATE #002H	N-02-23S-33E	10930	[7320] BRINNINSTOOL, BONE SPRING
30-025-40733	217955	COG PRODUCTION, LLC	O	A	SOPAPILLA STATE #001H	M-02-23S-33E	11118	[7320] BRINNINSTOOL, BONE SPRING
30-025-43005	7377	EOG RESOURCES INC	O	A	FOGHORN 32 STATE #501H	A-32-22S-33E	10922	[51687] RED TANK, BONE SPRING, EAST; [97922] WC-025 G-06 S223421L, BONE SPRING; [98177] WC-025 G-09 S223332A, UPR WOLFCAMP
30-025-43004	7377	EOG RESOURCES INC	O	A	LEGHORN 32 STATE #201H	A-32-22S-33E	9410	[51687] RED TANK, BONE SPRING, EAST; [96794] WILDCAT, WOLFCAMP OIL (ABOLISHED); [98177] WC-025 G-09 S223332A, UPR WOLFCAMP
30-025-40619	215099	CIMAREX ENERGY CO.	O	A	BLANCO 3 STATE COM #001H	O-03-23S-33E	11085	[7320] BRINNINSTOOL, BONE SPRING
30-025-34027	22351	TEXACO EXPLORATION & PRODUCTION INC	O	C	JIT 28 FEDERAL #001	J-28-22S-33E	0	
30-025-42509	7377	EOG RESOURCES INC	O	C	LEGHORN BWR STATE #001C	M-33-22S-33E	0	[51687] RED TANK, BONE SPRING, EAST
30-025-41144	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	TAIPAN 10 STATE COM #003C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-40806	7377	EOG RESOURCES INC	O	C	FOGHORN BFM STATE COM #001C	P-32-22S-33E	0	[51687] RED TANK, BONE SPRING, EAST; [97922] WC-025 G-06 S223421L, BONE SPRING
30-025-41145	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	TAIPAN 10 STATE COM #004C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42164	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	BLACK MAMBA 15 STATE COM #005C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING; [14865] CRUZ, BONE SPRING
30-025-42422	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	BLACK MAMBA 15 STATE COM #006C	D-15-23S-33E	0	[96724] CRUZ, DELAWARE, NORTHEAST
30-025-42698	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	NORTH THISTLE 34 STATE COM #002C	M-34-22S-33E	0	[7320] BRINNINSTOOL, BONE SPRING; [59900] TRIPLE X, BONE SPRING
30-025-42163	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	BLACK MAMBA 15 STATE COM #004C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING; [14865] CRUZ, BONE SPRING
30-025-41143	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	TAIPAN 10 STATE COM #002C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42162	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	BLACK MAMBA 15 STATE COM #003C	B-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING; [14865] CRUZ, BONE SPRING
30-025-33396	17891	POGO PRODUCING CO	O	C	DIAMOND 34 STATE #003	D-34-22S-33E	0	
30-025-33389	17891	POGO PRODUCING CO	O	C	DIAMOND 34 STATE #002	M-34-22S-33E	0	
30-025-32232	25575	EOG Y RESOURCES, INC.	O	C	JACKAL ANJ FEDERAL #001	4-04-23S-33E	5400	
30-025-40622	215099	CIMAREX ENERGY CO.	O	C	BLANCO 3 STATE COM #003C	O-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-40620	215099	CIMAREX ENERGY CO.	O	C	BLANCO 3 STATE COM #002C	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-40623	215099	CIMAREX ENERGY CO.	O	C	BLANCO 3 STATE COM #004C	O-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-40624	215099	CIMAREX ENERGY CO.	O	C	BLANCO 3 STATE COM #005C	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-40625	215099	CIMAREX ENERGY CO.	O	C	BLANCO 3 STATE COM #006C	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-43881	7377	EOG RESOURCES INC	O	N	FOGHORN 32 STATE COM #202H	A-32-22S-33E	0	[51687] RED TANK, BONE SPRING, EAST; [98177] WC-025 G-09 S223332A, UPR WOLFCAMP
30-025-43880	7377	EOG RESOURCES INC	O	N	FOGHORN 32 STATE COM #201H	A-32-22S-33E	0	[51687] RED TANK, BONE SPRING, EAST; [98177] WC-025 G-09 S223332A, UPR WOLFCAMP
30-025-45070	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #001H	N-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45073	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #004H	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45071	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #002H	N-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45074	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #005H	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45072	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #003H	N-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45075	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	NORTH THISTLE 3 34 STATE COM #006H	P-03-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42813	217955	COG PRODUCTION, LLC	O	N	SOPAPILLA STATE #005H	4-02-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42812	217955	COG PRODUCTION, LLC	O	N	SOPAPILLA STATE #004H	4-02-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42811	217955	COG PRODUCTION, LLC	O	N	SOPAPILLA STATE #003H	3-02-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45510	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #211H	L-01-23S-33E	0	[98259] OJO CHISO, BONE SPRING, SOUTHWEST
30-025-45153	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #202H	E-01-23S-33E	0	[98259] OJO CHISO, BONE SPRING, SOUTHWEST
30-025-45509	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #119H	L-01-23S-33E	0	[98259] OJO CHISO, BONE SPRING, SOUTHWEST
30-025-44691	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #301H	E-01-23S-33E	0	[5150] BELL LAKE, BONE SPRING, NORTH
30-025-45079	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #101H	E-01-23S-33E	0	[98259] OJO CHISO, BONE SPRING, SOUTHWEST
30-025-44693	12361	KAISER-FRANCIS OIL CO	O	N	BELL LAKE UNIT NORTH #401H	E-01-23S-33E	0	[5150] BELL LAKE, BONE SPRING, NORTH; [98180] WC-025 G-09 S253309P, UPR WOLFCAMP; [98265] OJO CHISO, WOLFCAMP, SOUTHWEST
30-025-42570	229137	COG OPERATING LLC	O	N	CHIVO 9 FEDERAL #002H	N-09-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-26492	217955	COG PRODUCTION, LLC	O	P	STATE HL #001	L-02-23S-33E	15640	[7320] BRINNINSTOOL, BONE SPRING
30-025-32233	25575	EOG Y RESOURCES, INC.	O	P	JACKAL ANJ FEDERAL #002	E-04-23S-33E	5291	[96033] WILDCAT, GROUP 2
30-025-26766	25575	EOG Y RESOURCES, INC.	O	P	QUAY AQU STATE #001	C-10-23S-33E	13466	[96724] CRUZ, DELAWARE, NORTHEAST
30-025-01803	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	A-33-22S-33E	5265	
30-025-20759	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	O-34-22S-33E	5300	
30-025-26902	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	F-35-22S-33E	15700	
30-025-08354	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	P-04-23S-33E	5279	

Table 2a
BLM Leases with 2 Miles of SWD

Lease Number	Name	Acres	Township	Range	Section	Unit Letter
NMLC 0066438	JAVELINA PARTNERS	480	23S	33E	01	D, E, L, M
NMNM 012846	MCLANE MONTY D	800	22S	33E	26	E
NMNM 020073	EOG RESOURCES INC	559	23S	33E	05 08	A,B,K,L,M,N A,B,G,H
NMNM 061360	ENGLE FRED L	960	22S	33E	26	K-O
NMNM 113969	DEVON ENERGY PROD CO LP	600	22S	33E	35	A-P
NMNM 114985	CHEVRON USA INC	1040	23S	33E	05 11	C-F,J,O A-N
NMNM 128834	COG OPERATING LLC	640	23S	33E	09	A-P
NMNM 129264	EOG RESOURCES INC	160	23S	33E	08	C,F,I,J,P

Table 2b
State Leases within 2 Miles of SWD

Lease Number	OGRID	OGRID Name	Acres	Township	Range	Section	Unit Letter
E019320001	217817	CONOCOPHILLIPS COMPANY	1680	22S	33E	33	A-C,F-J
E035130001	12361	KAISER-FRANCIS OIL CO	400	22S	33E	36	E,L,M
V072480002	4323	CHEVRON U S A INC	439	23S	33E	03	B-F,I-N
V082330001	252846	CIMAREX ENERGY CO.	200	23S	33E	03	A,G,H,O,P
V082400000	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	23S	33E	10	A-H
V082640000	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	23S	33E	10	I-P
VB07430000	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	23S	33E	15	A-D
VB13140001	217955	COG PRODUCTION, LLC	319	23S	33E	02	C-F,K-N
VB18120001	296438	COG ACREAGE LP	320	23S	33E	16	A, B
VB18130001	296438	COG ACREAGE LP	320	23S	33E	16	C
VB19370001	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	22S	33E	34	A-H
VB19380001	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	22S	33E	34	I-P
VB19810000	6137	DEVON ENERGY PRODUCTION COMPANY, LP	320	23S	33E	02	A,B,G,H,I,J,O,P
VB21040001	7377	EOG RESOURCES INC	320	22S	33E	32	A-H
VB21050001	7377	EOG RESOURCES INC	320	22S	33E	32	I-P
VB21060001	7377	EOG RESOURCES INC	320	22S	33E	33	D,E,K-P

Table 2c
Surface Owners within 2 Miles of SWD

UPC	Parcel Code	Name	Acres	Township	Range	Section	Unit Letter
4193133267265		STATE OF NEW MEXICO	640	23S	33E	05	A-P
4193134266265		STATE OF NEW MEXICO	640	23S	33E	08	A-C,F-J,P
4194132267265	4000501770001	STATE OF NEW MEXICO	640	22S	33E	33	A-P
4194133267265		STATE OF NEW MEXICO	638	23S	33E	04	A-P
4194134265265		STATE OF NEW MEXICO	640	23S	33E	09	A-P
4194135265266		STATE OF NEW MEXICO	640	23S	33E	16	A-C
4195132265265		STATE OF NEW MEXICO	640	22S	33E	34	A-P
4195133266265	4000501770003	STATE OF NEW MEXICO	639	23S	33E	03	A-P
4195134266265		STATE OF NEW MEXICO	640	23S	33E	10	A-P
4195135266265		STATE OF NEW MEXICO	640	23S	33E	15	A-D
4196132266265		BLM	640	22S	33E	35	A-P
4196133266265		STATE OF NEW MEXICO	639	23S	33E	02	A-P
4196133629661		STATE OF NEW MEXICO	640	22S	33E	32	A-P
4196134265265		STATE OF NEW MEXICO	640	23S	33E	11	A-H,J-N
4197132266265	4000501780002	STATE OF NEW MEXICO	640	22S	33E	36	E,L,M
4197133679267		STATE OF NEW MEXICO	160	23S	33E	01	D,E,L,M
4200127109179		BLM	640	22S	33E	26	E,J-P
						27	B-P
						28	A,B,E-P
						29	H-J,N-P

wellname	api	section	township	range	unit	figns	figwv	county	state	formation	ph	specificgravity	tds_mgl	resistivity_ohm_cm	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl
THISTLE UNIT #017H	3002539893	33	23S	33E	O	150N	1470E	Lea	NM	DELAWARE-BRUSHY CANYON	6				89832	22107	15	4443	3	189304	73	200	350
THISTLE UNIT #018H	3002540010	28	23S	33E	C	150N	1470W	Lea	NM	DELAWARE-BRUSHY CANYON	5.7				93485	22643	31	4570	3.2	195932	73	270	390
THISTLE UNIT #049H	3002541254	34	23S	33E	N	280S	2611W	Lea	NM	BONE SPRING 2ND SAND	6.1				51720	8636	84	1117	0.95	98474	183	690	300
THISTLE UNIT #065H	3002541303	33	23S	33E	P	124S	1058E	Lea	NM	BONE SPRING 2ND SAND	6.3				80875	6665	79	871	0.65	138579	183	470	300
THISTLE UNIT #061H	3002541487	22	23S	33E	M	200S	660W	Lea	NM	BONE SPRING 2ND SAND	6.3				84834	7818	12	927	0.12	146896	146	480	250
THISTLE UNIT #004	3002534456	34	23S	33E	N	600S	1980W	Lea	NM		5.08	21757.8			315.8	4914	284	368		12856	163		
THISTLE UNIT #005	3002534580	34	23S	33E	F	1980M	1980W	Lea	NM		6.99	74186			25899	1996	27	253		44527	386	269	
THISTLE UNIT #018H	3002540010	28	23S	33E	C	150N	1470W	Lea	NM	DELAWARE-BRUSHY CANYON	6	254702.7			70206.8	20688.4	47.7	3452.1	3.83	157600	122	0	200
THISTLE UNIT #032H	3002540016	33	23S	33E	P	150S	150E	Lea	NM	DELAWARE-BRUSHY CANYON	6	256044.9			68990.7	20375.4	30.7	3375.3	3.98	160600	122	0	400
THISTLE UNIT #043H	3002540898	33	23S	33E	M	200S	500W	Lea	NM	BONE SPRING 2ND SAND	6.6	143879.2			46056.9	7296.4	79.8	820.9	2.6	86700	244	0	300
THISTLE UNIT #046H	3002541118	33	23S	33E	N	350S	2080W	Lea	NM	BONE SPRING 2ND SAND	6.5	163164.2			52347.9	8192.1	46.1	890.3	1.64	99400	122	0	200
THISTLE UNIT #048H	3002541253	34	23S	33E	N	280S	2561W	Lea	NM	BONE SPRING 2ND SAND	6.5	161403.3			51347.4	7892.9	18.5	856.7	1.12	99100	122	0	250
THISTLE UNIT #049H	3002541254	34	23S	33E	N	280S	2611W	Lea	NM	BONE SPRING 2ND SAND	6.5	161244.1			50959.5	7851.1	21.9	845.1	1.18	99300	122	0	200
THISTLE UNIT #050H	3002541302	34	23S	33E	P	200S	660E	Lea	NM	BONE SPRING 2ND SAND	6.5	158786.1			51053.6	8121.8	10.6	874.5	1.42	96500	122	0	150
THISTLE UNIT #059H	3002541342	22	23S	33E	O	150S	2100E	Lea	NM	BONE SPRING 2ND SAND	6.4	165329.7			52112.8	8757.2	22.5	937.2	1.43	101300	183	0	200
THISTLE UNIT #017H	3002539893	33	23S	33E	O	150S	1470E	Lea	NM	DELAWARE-BRUSHY CANYON	6	71469.2			25489.1	54.1		3893.9	6.57	179335	427	0	100
THISTLE UNIT #044H	3002541032	33	23S	33E	N	350S	1980W	Lea	NM	BONE SPRING 2ND SAND	5.7	55748			7983	68	924	1.4	103965	171	740	250	
THISTLE UNIT #062H	3002541466	22	23S	33E	O	450S	2250E	Lea	NM	BONE SPRING 2ND SAND	6.6	45038			7608	34	833	1.2	86371	122	680	200	
THISTLE UNIT #063H	3002541467	22	23S	33E	O	450S	2200E	Lea	NM	BONE SPRING 2ND SAND	6.2	47247			8197	19	896	0.78	90999	244	600	230	
THISTLE UNIT #064H	3002541468	22	23S	33E	O	450S	2150E	Lea	NM	BONE SPRING 2ND SAND	6.1	47592			7723	16	841	0.8	90540	98	660	190	
THISTLE UNIT #044H	3002541032	33	23S	33E	N	350S	1980W	Lea	NM	BONE SPRING 2ND SAND	6.2	74216			6933	14	882	0.41	129179	122	430	100	
THISTLE UNIT #017H	3002539893	33	23S	33E	O	150S	1470E	Lea	NM	DELAWARE-BRUSHY CANYON	5.9	82059			12933	14	3716	23	169603	61	640	200	
THISTLE UNIT #032H	3002540016	33	23S	33E	P	150S	150E	Lea	NM	DELAWARE-BRUSHY CANYON	6.1	91267			22892	11	4435	3.2	193029	37	250	290	
THISTLE UNIT #044H	3002541032	33	23S	33E	N	350S	1980W	Lea	NM	BONE SPRING 2ND SAND	6.1	77388			9133	27	1113	0.74	138954	98	640	270	
THISTLE UNIT #041H	3002541118	33	23S	33E	N	350S	2080W	Lea	NM	BONE SPRING 2ND SAND	6	70262			10319	26	1543	1.1	131655	122	620	220	
THISTLE UNIT #047H	3002541252	34	23S	33E	N	280S	2511W	Lea	NM	BONE SPRING 2ND SAND	6.1	85383			8644	36	1037	0.56	150004	85	560	230	
THISTLE UNIT #050H	3002541302	34	23S	33E	P	200S	660E	Lea	NM	BONE SPRING 2ND SAND	6	83406			8769	52	1081	0.79	147503	122	540	230	
THISTLE UNIT #065H	3002541303	33	23S	33E	P	124S	1058E	Lea	NM	BONE SPRING 2ND SAND	5.9	87039			9224	50	1170	0.69	154348	98	700	250	
THISTLE UNIT #061H	3002541487	22	23S	33E	M	200S	660W	Lea	NM	BONE SPRING 2ND SAND	7.3	87007			9441	27	1109	0.45	154055	110	460	230	
THISTLE UNIT #055H	3002541488	22	23S	33E	M	150S	660W	Lea	NM	BONE SPRING 2ND SAND	6.6	84044			9093	39	1085	0.73	149239	122	500	260	
THISTLE UNIT #001	3002532138	33	23S	33E	C	790N	1780W	Lea	NM		6.2	95218			21739	37	4286	3.5	196997	110	260	330	
THISTLE UNIT #018H	3002540010	28	23S	33E	C	150N	1470W	Lea	NM	DELAWARE-BRUSHY CANYON	5.5	96068			22248	20	4460	2.9	199245	61	300	310	
THISTLE UNIT #020H	3002540015	27	23S	33E	D	150N	150W	Lea	NM	DELAWARE-BRUSHY CANYON	5.4	85224			22553	30	4475	3.9	183663	85	250	290	
THISTLE UNIT #048H	3002541253	34	23S	33E	N	280S	2561W	Lea	NM	BONE SPRING 2ND SAND	6	59257			8179	13	1002	0.07	108767	110	630	150	
THISTLE UNIT #065H	3002541303	33	23S	33E	P	124S	1058E	Lea	NM	BONE SPRING 2ND SAND	6.4	89233			804	45	1013	0.42	154983	159	200	200	
THISTLE UNIT #056H	3002541340	22	23S	33E	O	150S	2200E	Lea	NM	BONE SPRING 2ND SAND	6.4	85421			9052	22	1111	0.33	151169	122	570	180	
THISTLE UNIT #062H	3002541466	22	23S	33E	O	450S	2250E	Lea	NM	BONE SPRING 2ND SAND	6.1	79770			8893	58	1105	0.8	142227	122	550	310	
THISTLE UNIT #063H	3002541467	22	23S	33E	O	450S	2200E	Lea	NM	BONE SPRING 2ND SAND	5.9	75949			9227	44	1171	0.6	137451	122	590	280	
THISTLE UNIT #064H	3002541468	22	23S	33E	O	450S	2150E	Lea	NM	BONE SPRING 2ND SAND	6.3	76951			8551	42	1055	0.54	137246	85	570	230	
THISTLE UNIT #053H	3002541794	28	23S	33E	B	200N	2030E	Lea	NM	BONE SPRING 2ND SAND	5.7	82792			8583	29	1027	0.37	146363	122	500	240	
THISTLE UNIT #059H	3002541796	28	23S	33E	B	200N	1980E	Lea	NM	BONE SPRING 2ND SAND	5.8	87646			8631	66	1030	0.56	154089	73	520	310	
THISTLE UNIT #052H	3002541897	28	23S	33E	C	180N	1795W	Lea	NM	BONE SPRING 2ND SAND	5.8	71047			8062	27	970	1.2	127280	146	560	230	
THISTLE UNIT #018H	3002540010	28	23S	33E	C	150N	1470W	Lea	NM	DELAWARE-BRUSHY CANYON	5.8	67920			21017	20	4509	3.6	155000	61	303	638	
THISTLE UNIT #056H	3002541340	22	23S	33E	O	150S	2200E	Lea	NM	BONE SPRING 2ND SAND	6.2	55815			9341	28	1275	0.93	106000	122	499	374	
THISTLE UNIT #057H	3002541341	22	23S	33E	O	150S	2150E	Lea	NM	BONE SPRING 2ND SAND	6.5	53627			10505	67	1394	1.4	105000	171	508	484	
THISTLE UNIT #062H	3002541466	22	23S	33E	O	450S	2250E	Lea	NM	BONE SPRING 2ND SAND	6.5	53998			10179	69	1422	1.4	105000	232	563	484	
THISTLE UNIT #063H	3002541467	22	23S	33E	O	450S	2200E	Lea	NM	BONE SPRING 2ND SAND	6.4	55684			8960	34	1264	1.1	105000	232	531	528	
THISTLE UNIT #064H	3002541468	22	23S	33E	O	450S	2150E	Lea	NM	BONE SPRING 2ND SAND	6.4	58238			3662	50	740	0.9	98000	171	599	440	
THISTLE UNIT #061H	3002541487	22	23S	33E	M	200S	660W	Lea	NM	BONE SPRING 2ND SAND	6.3	51734			13895	0	1692	1.4	109000	122	494	440	
THISTLE UNIT #055H	3002541488	22	23S	33E	M	150S	660W	Lea	NM	BONE SPRING 2ND SAND	6.3	56352			9467	37	1271	1.2	107000	122	556	396	
THISTLE UNIT #051H	3002541896	28	23S	33E	D	200N	430W	Lea	NM	BONE SPRING 2ND SAND	6.6	51318			7868	29	1149	0.81	96000	183	557	418	
THISTLE UNIT #052H	3002541897	28	23S	33E	C	180N	1795W	Lea	NM	BONE SPRING 2ND SAND	6.4	51627			10603	46	1359	1.9	102000	195	468	396	
THISTLE UNIT #020H	3002540015	27	23S	33E	D	150N	150W	Lea	NM	DELAWARE-BRUSHY CANYON	5.9	60914			21590	26	5449	3.7	148000	61	220	660	
THISTLE UNIT #043H	3002540898	33	23S	33E	M	200S	500W	Lea	NM	BONE SPRING 2ND SAND	6.2	48663			10816	76	1497	2	98000	134	792	462	
THISTLE UNIT #044H	3002541032	33	23S	33E	N	350S	1980W	Lea	NM	BONE SPRING 2ND SAND	6.4	54541			8845	28	1236	1.1	103000	146	534	330	
THISTLE UNIT #046H	3002541118	33	23S	33E	N	350S	2080W	Lea	NM	BONE SPRING 2ND SAND	6.7	54205			8584	33	1249	1.2	102000	122	608	330	
THISTLE UNIT #048H	3002541253	34	23S	33E	N	280S	2561W	Lea	NM	BONE SPRING 2ND SAND	6.6	56181			7137	15	1083	0.59	102000	122	626	330	
THISTLE UNIT #049H	3002541254	34	23S	33E	N	280S	2611W	Lea	NM	BONE SPRING 2ND SAND	6.5	53470			8231	38	1196	0.9	100000	183	695	330	
THISTLE UNIT #050H	3002541302	34	23S	33E	P	200S	660E	Lea	NM	BONE SPRING 2ND SAND	6.7	60221											

wellname	api	section	township	range	unit	ftgns	ftgws	county	state	formation	ph	specificgravity	tds_mgl	resistivity_ohm_cm	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl
THISTLE UNIT #058H	3002541342	22	23S	33E	O	150S	2100E	Lea	NM	BONE SPRING 2ND SAND	5.63		172311.7	0.037	54411.1	10120	45.1	1126	1.24	105276.3	305	425	550
THISTLE UNIT #062H	3002541466	22	23S	33E	O	450S	2250E	Lea	NM	BONE SPRING 2ND SAND	7.54		106744.9	0.06	32885.4	5523	0.8	1747	0.1	64285.5	976	1205	600
THISTLE UNIT #063H	3002541467	22	23S	33E	O	450S	2200E	Lea	NM	BONE SPRING 2ND SAND	5.62		164203.7	0.039	53030.1	8746	37.1	968.7	1.11	100077.4	193	635	670
THISTLE UNIT #064H	3002541468	22	23S	33E	O	450S	2150E	Lea	NM	BONE SPRING 2ND SAND	5.03		184017	0.035	59935.2	9356	57.2	1065	1.28	111874.8	256.2	940	810
THISTLE UNIT #061H	3002541487	22	23S	33E	M	200S	660W	Lea	NM	BONE SPRING 2ND SAND	4.63		236468.1	0.027	65180.9	19100	44.5	4014	3.95	146666.9	75.2	425	640
THISTLE UNIT #055H	3002541488	22	23S	33E	M	150S	660W	Lea	NM	BONE SPRING 2ND SAND	5.72		217107.3	0.029	62587.2	15640	25.7	3227	3.22	133869.8	256.2	635	1100
THISTLE UNIT #059H	3002541796	28	23S	33E	B	200N	1980E	Lea	NM	BONE SPRING 2ND SAND	5.1		140110.6	0.046	47035.8	5996	30.2	763	1.97	84880.9	439.2	740	780
THISTLE UNIT #051H	3002541896	28	23S	33E	D	200N	430W	Lea	NM	BONE SPRING 2ND SAND	5.16		101658.2	0.063	34198.8	4245	13.2	578.6	0.37	61286.2	158.6	1030	170
THISTLE UNIT #052H	3002541897	28	23S	33E	C	180N	1795W	Lea	NM	BONE SPRING 2ND SAND	6.5		161549.2	0.04	51767.5	8900	56.2	1004	1.25	98777.7	73.2	425	250
HORNED VIPER 20 FEDERAL COM #001H	3002541913	20	23S	33E	N	200S	1350W	Lea	NM	BONE SPRING 2ND SAND	7		130154.4	0.049	49951.8	721	11.4	140	0.1	78282.4	158.6	740	210
HORNED VIPER 20 FEDERAL COM #002H	3002541914	20	23S	33E	M	200S	1300W	Lea	NM	BONE SPRING 2ND SAND	6.1		272936.3	0.023	76649.8	21050	34.8	4456	4.19	169061.9	40	600	300
THISTLE UNIT #071H	3002542425	27	23S	33E	A	200N	632E	Lea	NM	BONE SPRING 1ST SAND	5.6		171476.3	0.037	55363.2	9140	40.4	1023	1.1	104576.4	244	560	770
THISTLE UNIT #026H	3002542431	22	23S	33E	M	100S	802W	Lea	NM	DELAWARE-BRUSHY CANYON	5.04		133984.6	0.048	45518.8	5227	38.2	672.7	0.72	80481.9	972.2	880	240
MARSHALL #001	3002508358	19	23S	33E	M	660S	660W	LEA	NM	DELAWARE			238931							148600	127	156	
THISTLE UNIT #017H	3002539893	33	23S	33E	O	150S	1470E	Lea	NM	DELAWARE-BRUSHY CANYON	7		249357.8		68908.3	19792	108	3609	3.5	153350	61	1010	300
THISTLE UNIT #020H	3002540015	27	23S	33E	D	150N	150W	Lea	NM	DELAWARE-BRUSHY CANYON	7		245475		66848	20494	40	3559	4	151089	61	990	300

Table 4 - Chemistry of Produced Water from Formations

wellname	api	section	township	range	unit	county	state	field	formation	depth	samplesource	sampledate	ph	specificgravity	specificgravity_temp_F	tds_mgL	resistivity_ohm_cm	resistivity_ohm_cm_temp_F	conductivity	conductivity_temp_F	sodium_mgL	calcium_mgL	magnesium_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL
MCKITTRICK FED #1	3001500135	25	22S	25E	G	EDDY	NM		DEVONIAN		DST					16200							8762	290	1175	
MCKITTRICK FED #1	3001500135	25	22S	25E	G	EDDY	NM		DEVONIAN		DST					17510							9389	664	982	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					14601							7236	515	1487	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					15780							8126	336	1467	
CARNERO PEAK UT #001	3001510053	31	22S	25E	A	EDDY	NM		DEVONIAN		DST					15580							7853	487	1488	
BANDANA POINT UT #001	3001500044	13	23S	23E	O	EDDY	NM	BANDANA POINT	DEVONIAN		DST					15500							8020	500	1190	
TORTOISE ASB COM #001	3001510490	29	23S	24E	G	EDDY	NM		DEVONIAN		DST					17861							7760	490	3100	
TORTOISE ASB COM #001	3001510490	29	23S	24E	G	EDDY	NM		DEVONIAN		DST					15601							7780	476	1600	
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	EDDY	NM	REMUDA	DEVONIAN		SWAB					64582							37500	610	1700	
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	EDDY	NM	REMUDA	DEVONIAN		SWAB					56922							29000	1740	4980	
BELL LAKE UNIT #006	3002508483	6	23S	34E	O	LEA	NM	BELL LAKE NORTH	DEVONIAN		HEATER TREATER		7			71078							42200	500	1000	
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	LEA	NM	ANTELOPE RIDGE	DEVONIAN		UNKNOWN	14/11/1967 0:00	6,9			80187							47900	476	900	
ANTELOPE RIDGE UNIT #003	3002521082	34	23S	34E	K	LEA	NM	ANTELOPE RIDGE	DEVONIAN		UNKNOWN	14/11/1967 0:00	6,9			80187							47900	476	900	
CLINE FEDERAL #001	3002510717	14	23S	37E	K	LEA	NM	CLINE	DEVONIAN		PRODUCTION TEST					118979							71280	462	2593	
E C HILL B FEDERAL #001	3002510945	34	23S	37E	A	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					112959							67390	288	2765	
E C HILL D FEDERAL #001	3002510947	34	23S	37E	H	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					35639										
E C HILL D FEDERAL #004	3002510950	34	23S	37E	A	LEA	NM	TEAGUE	DEVONIAN		UNKNOWN					236252							147000	129	781	
HUAPACHE #003	3001500020	22	24S	22E	F	EDDY	NM		DEVONIAN		DST					3110							48	246	2020	
JURNEGAN POINT #001	3001510280	5	24S	25E	M	EDDY	NM	WILDCAT	DEVONIAN		DST	14/12/1964 0:00	7			229706							136964	198	2511	
JURNEGAN POINT #001	3001510280	5	24S	25E	M	EDDY	NM	WILDCAT	DEVONIAN		DST	14/12/1964 0:00	7			203100							121100	175	2220	
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29	24S	26E	A	EDDY	NM		DEVONIAN		DST	01/03/1960 0:00	7	1,012	60		0,36	75	25596	64	6072	1002	132	10120	653	1336
STATE B COM #001	3002509716	36	24S	36E	C	LEA	NM	CUSTER	DEVONIAN		UNKNOWN					176234							107400	128	1004	
ELLIOTT H FEDERAL #001	3002512272	31	24S	38E	H	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					58687										
ELLIOTT H FEDERAL #001	3002512272	31	24S	38E	H	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					57018										
WEST DOLLARHIDE DEVONIAN UNIT #104	3002512297	32	24S	38E	I	LEA	NM	DOLLARHIDE	DEVONIAN		WELLHEAD					50858							30200	183	980	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST	17/06/1961 0:00	6			80880							46200	340	3050	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					84900							48600	840	2650	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					72200							41000	370	2960	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					80900							46200	340	3050	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					77600							44000	550	3240	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					135000							77000	650	5810	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					114000							65000	280	5110	
WESTATES FEDERAL #004	3002511389	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		DST					135000							77000	500	5320	
WESTATES FEDERAL #008	3002511393	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		UNKNOWN					91058							51020	376	4783	
WESTATES FEDERAL #008	3002511393	1	25S	37E	E	LEA	NM	JUSTIS NORTH	FUSSELMAN		UNKNOWN					86847							50450	363	2544	
STATE NJ A #001	3002511398	2	25S	37E	A	LEA	NM	JUSTIS NORTH	DEVONIAN		DST					105350							59300	660	4950	
NEW MEXICO BM STATE #002	3002511407	2	25S	37E	I	LEA	NM	JUSTIS NORTH	MONTOYA		UNKNOWN					77770							45500	1800	2400	
HALE STATE #003	3002512581	2	25S	37E	H	LEA	NM	JUSTIS NORTH	MONTOYA		WELLHEAD					64916							37000	813	2500	
SOUTH JUSTIS UNIT #016F	3002511556	13	25S	37E	F	LEA	NM	JUSTIS	FUSSELMAN		UNKNOWN					57675							34030	595	1211	
LEARCY MCBUFFINGTON #008	3002511569	13	25S	37E	N	LEA	NM	203MNTY, 259FSLM	FUSSELMAN	7052		02/01/1900 0:00	7,6	1,037	78	67909			81429	67		2603	684	38887	742	2489
LEARCY MCBUFFINGTON #008	3002511569	13	25S	37E	N	LEA	NM	JUSTIS	MONTOYA		UNKNOWN					67898							38880	742	2489	
A B COATES C FEDERAL #014	3002511736	24	25S	37E	G	LEA	NM	JUSTIS	MONTOYA		UNKNOWN					39261							22840	871	1030	
SOUTH JUSTIS UNIT #023C	3002511760	25	25S	37E	C	LEA	NM	JUSTIS	FUSSELMAN		SEPARATOR					63817							35870	360	3442	
CARLSON A #002	3002511764	25	25S	37E	I	LEA	NM	JUSTIS	FUSSELMAN		DST					208280							124000	510	3400	
STATE Y #009	3002511777	25	25S	37E	A	LEA	NM	JUSTIS	FUSSELMAN		DST	17/03/1961 0:00	7,3			219570							129000	960	4630	
STATE Y #009	3002511777	25	25S	37E	A	LEA	NM	JUSTIS	FUSSELMAN		DST	18/03/1961 0:00	6,8			163430							96000	290	3780	
CARLSON B 25 #004	3002511784	25	25S	37E	P	LEA	NM	JUSTIS	FUSSELMAN		SEPARATOR					184030							112900	68	1806	
COPPER #001	3002511818	28	25S	37E	J	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					27506							15270	1089	1079	
ARNOTT RAMSAY NCT-B #003	3002511863	32	25S	37E	A	LEA	NM	CROSBY	DEVONIAN	8797		02/01/1900 0:00		1,142	70							17244	5345	100382	476	
ARNOTT RAMSAY NCT-B #003	3002511863	32	25S	37E	A	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					158761										
WEST DOLLARHIDE DEVONIAN UNIT #110	3002512386	5	25S	38E	B	LEA	NM	DOLLARHIDE	DEVONIAN		UNKNOWN					56776										
FARNSWORTH FEDERAL #006	3002511950	4	26S	37E	A	LEA	NM	CROSBY	DEVONIAN		UNKNOWN					31931							20450	302	591	

OSE Well Logs – NO WATER SUPPLY WELLS

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

June 27, 2019

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

LEGAL NOTICE

AWR Disposal LLC, 3300 N. A Street, Ste. 220, Midland, TX 79705 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 Prime Time SWD #1 will be located 802 feet from the North line and 613 feet from the West line, Section 3, Township 23 South, Range 33 East, Lea County, New Mexico. Produced water and recycled produced water from area production will be commercially disposed into the Devonian, Silurian, Fusselman, and Montoya Formations at a depth of 16,790 feet to 18,532 feet at a maximum surface pressure of 3,350 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 35.4 miles southwest of Eunice, 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 Accelerated Water Resources, LP, at 505-238-9515.

Sincerely,
R.T. Hicks Consultants



Randall Hicks
Principal

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

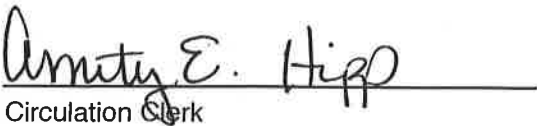
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
June 28, 2019
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June 28, 2019.



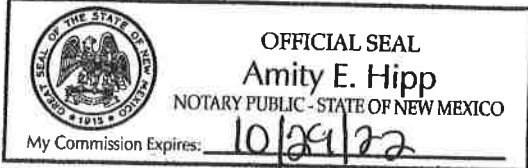
Publisher

Sworn and subscribed to before me this
28th day of June 2019.

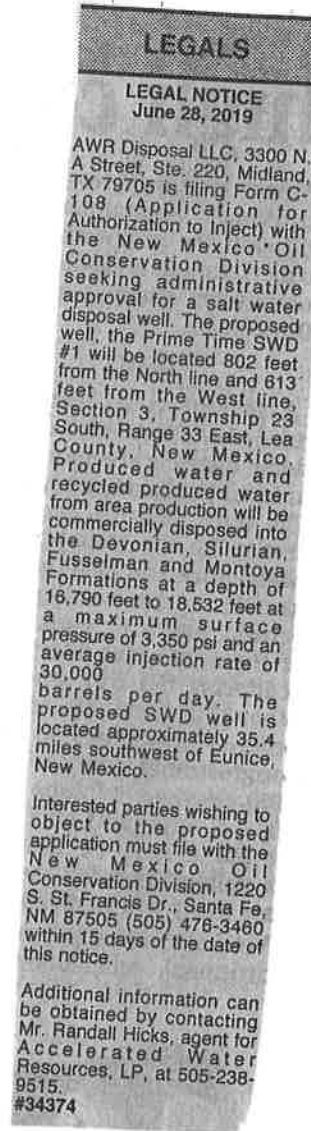


Circulation Clerk

My commission expires
October 29, 2022
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SUITE F-142
ALBUQUERQUE, NM 87104

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Artesia ▲ Carlsbad ▲ Durango ▲ Midland

June 26, 2019

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

AWR Disposal LLC, Midland, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete, for salt water disposal, the Prime Time SWD #1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 3, Township 23 South, Range 33 East in Lea County, New Mexico.

The published notice states that the interval will be from 16,790 feet to 18,532 feet into the Devonian, Silurian, Fusselman, and Montoya Formations.

LEGAL NOTICE

AWR Disposal LLC, 3300 N. A Street, Ste. 220, Midland, TX 79705 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 Prime Time SWD #1 will be located 802 feet from the North line and 613 feet from the West line, Section 3, Township 23 South, Range 33 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian, Fusselman, and Montoya Formations at a depth of 16,790 feet to 18,532 feet at a maximum surface pressure of 3,350 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 35.4 miles southwest of Eunice, 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.

Sincerely,
R.T. Hicks Consultants



Randall Hicks
Principal

7019 0700 0000 2071 6349

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DEVON ENERGY PROD. CO.
Re: Prime Time SWD #1
333 West Sheridan Ave.
Oklahoma City, OK 73102

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DAVID G MCLANE OIL & GAS
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KAISER-FRANCIS OIL CO.
Re: Prime Time SWD #1
6733 S YALE AVE
TULSA, OK, OK 74136

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POGO PRODUCTIONS CO.
Re: Prime Time SWD #1
PO BOX 10340
MIDLAND, TX 79702-7340

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CONOCOPHILLIPS COMPANY
P. O. BOX 7500
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Re: Prime Time SWD #1
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Midland, TX 79701

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COG ACREAGE LP
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COG ACREAGE LP
ONE CONCHO CENTER
MIDLAND, TX 79701

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104 S 4TH ST
ARTESIA, NM 88210

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Re: Prime Time SWD #1
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\$		08/27/2019
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\$		310 Old Santa Fe Trail
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Postage	\$0.55	Bureau of Land Management
\$		08/28/2019
Total Postage	\$6.85	Re: Prime Time SWD #1
\$		620 E. Greene Street
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Postage	\$0.55	COG PRODUCTION, LLC
\$		08/27/2019
Total Postage	\$6.85	Re: Prime Time SWD #1
\$		ONE CONCHO CENTER
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Street and Apt. #		MIDLAND, TX 79701
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Postage	\$0.55	CIMAREX ENERGY CO.
\$		08/28/2019
Total Postage	\$6.85	Re: Prime Time SWD #1
\$		600 N. Mariefeld Street
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June 27, 2019

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

RE: AWR Disposal LLC Prime Time SWD#1
UL D, Section 3 T23S R33E, Lea County

Dear Mr. Goetze:

On behalf of AWR Disposal 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

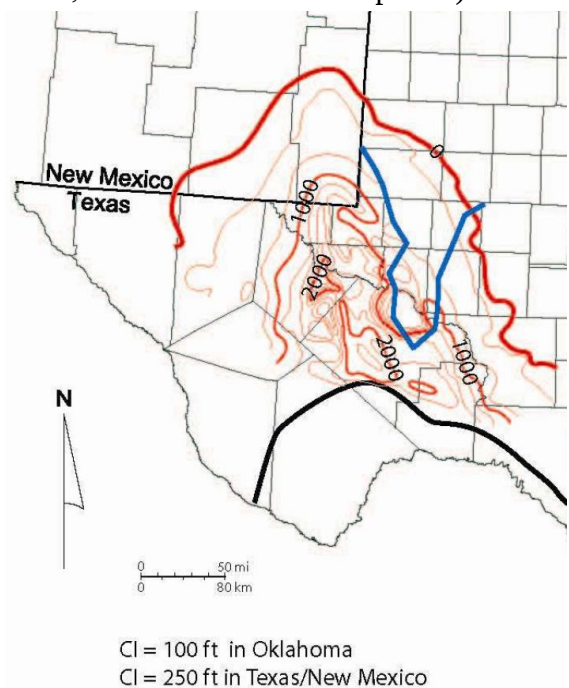
1. Fault traces based upon the references provided above for which Dr. Snee and Dr. Zoback provide a value of the fault slip potential (FSP)
2. Areas of documented seismic activity, such as the Dagger Draw area and a magnitude 2.0-2.9 earthquake that occurred between 1970-2004 about 12-miles south of the proposed Prime Time SWD #1. A slightly larger magnitude and more recent seismic event is reported about 15 miles west of the Prime Time 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 Prime Time SWD #1 (about 2.6 miles to the west) 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 County shown on Plate 5 also show a low FSP, except for part of southwest-northeast trending fault about 30 miles north-northwest of the Prime Time SWD #1 well that has a FSP of about 25 – 33% in the central portion of this fault trace.

Plate 6 reproduces the major elements of Plate 5 in the inset map and also shows that within an 12-mile radius around the proposed Prime Time SWD #1, the OCD database shows about 20 active or new Devonian SWDs, which translates into an average density of about one SWD for every 20 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 with. This 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 AWR Disposal does not possess) near the Prime Time SWD #1 would be dominantly north-south normal faults, as is common in Lea County. The data on Plate



June 27, 2019

Page 3

6 permit a conclusion that faults near the Prime Time State 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 Prime Time 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 Prime Time State 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 Prime Time 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". The signature is stylized with a large, looped "R" and a cursive "Hicks".

Randall T. Hicks
Principal

Copy: AWR Disposal LLC

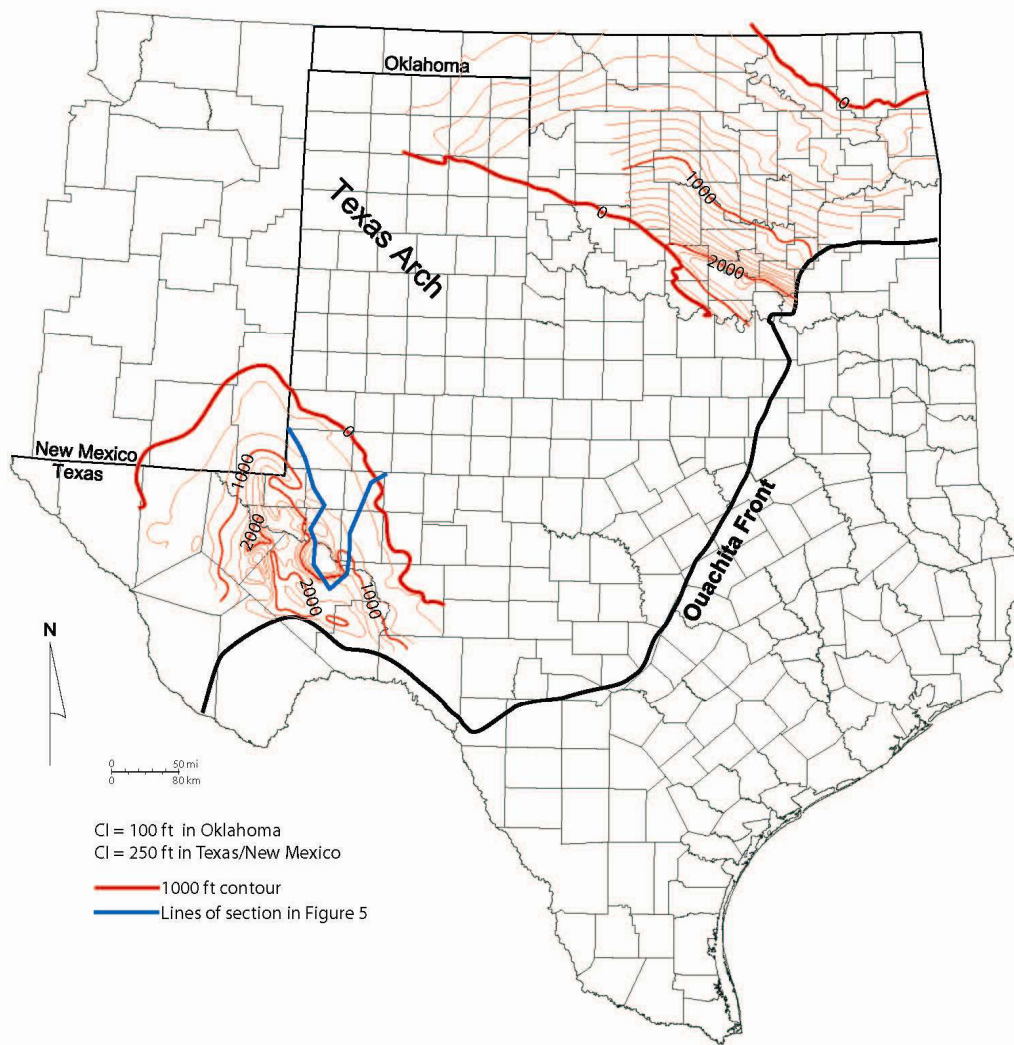


Figure 4. Thickness map of Simpson Group modified from Texas Water Development Board (1972), Frenzel and others (1988), and Northcutt and Johnson (1997). Thousand-foot contour lines and locations of figure 5 cross sections shown in heavy red and blue lines, respectively. Note that contour interval is 100 ft for Oklahoma and 250 ft for Texas and New Mexico.



- ▲ SWD
- Oil and Gas (NMOCD)
- △ 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).



0 5 10
Miles

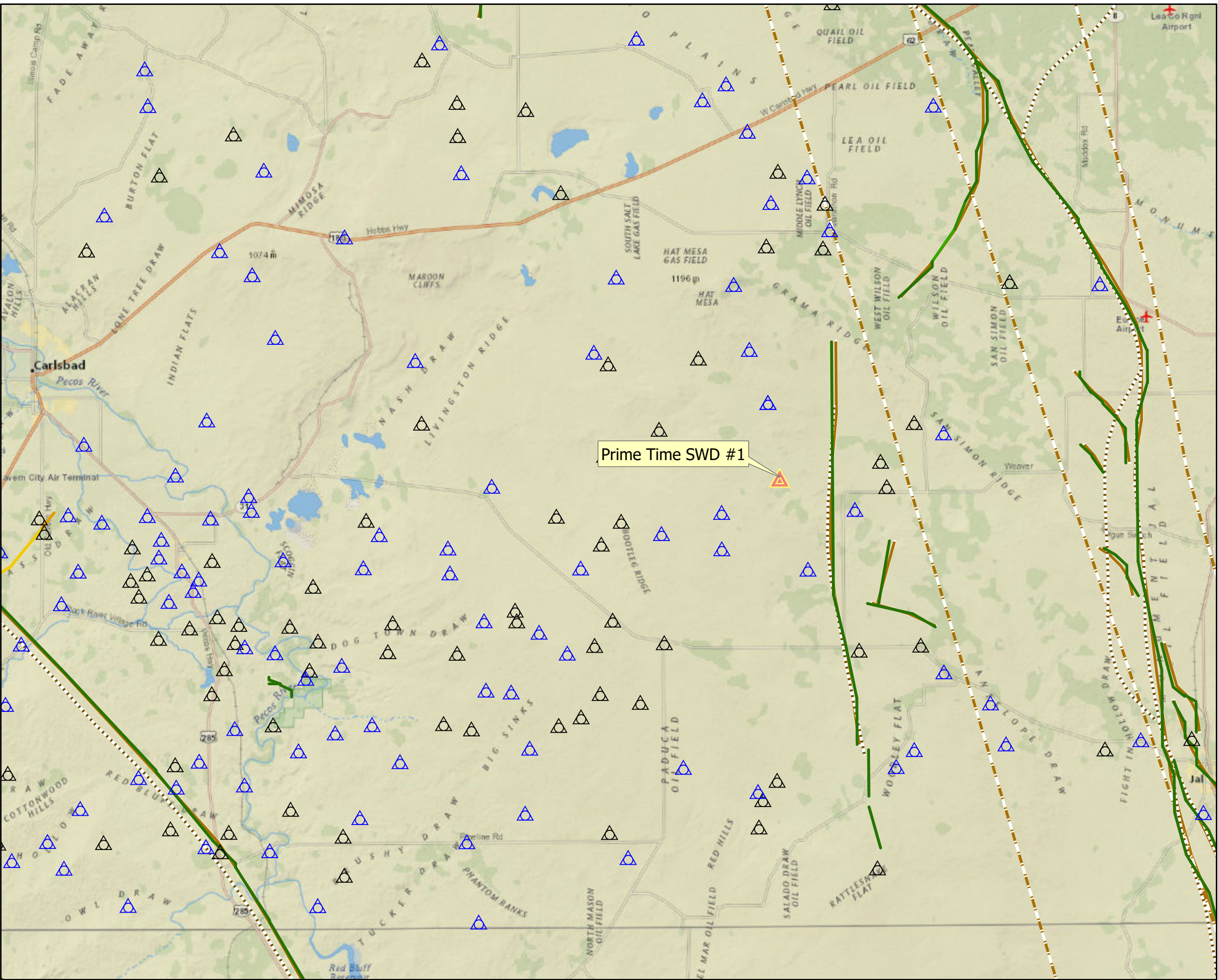
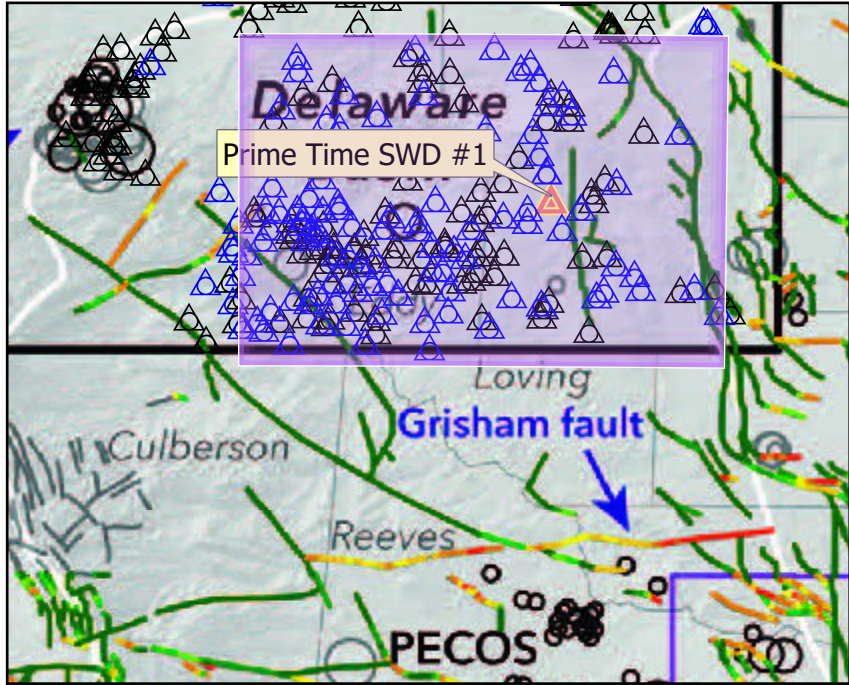
R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Seismicity and Fault Slip Potential

Plate 5

Accelerated Water Resources
Prime Time SWD #1

May 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

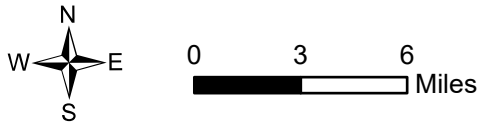
 5 - 10

 10 - 15

 25 - 30

 30 - 35

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
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Fault Slip Potential Relative to Active Salt Water Injection Wells
Accelerated Water Resources Prime Time SWD #1

Plate 6
May 2019

McMillan, Michael, EMNRD

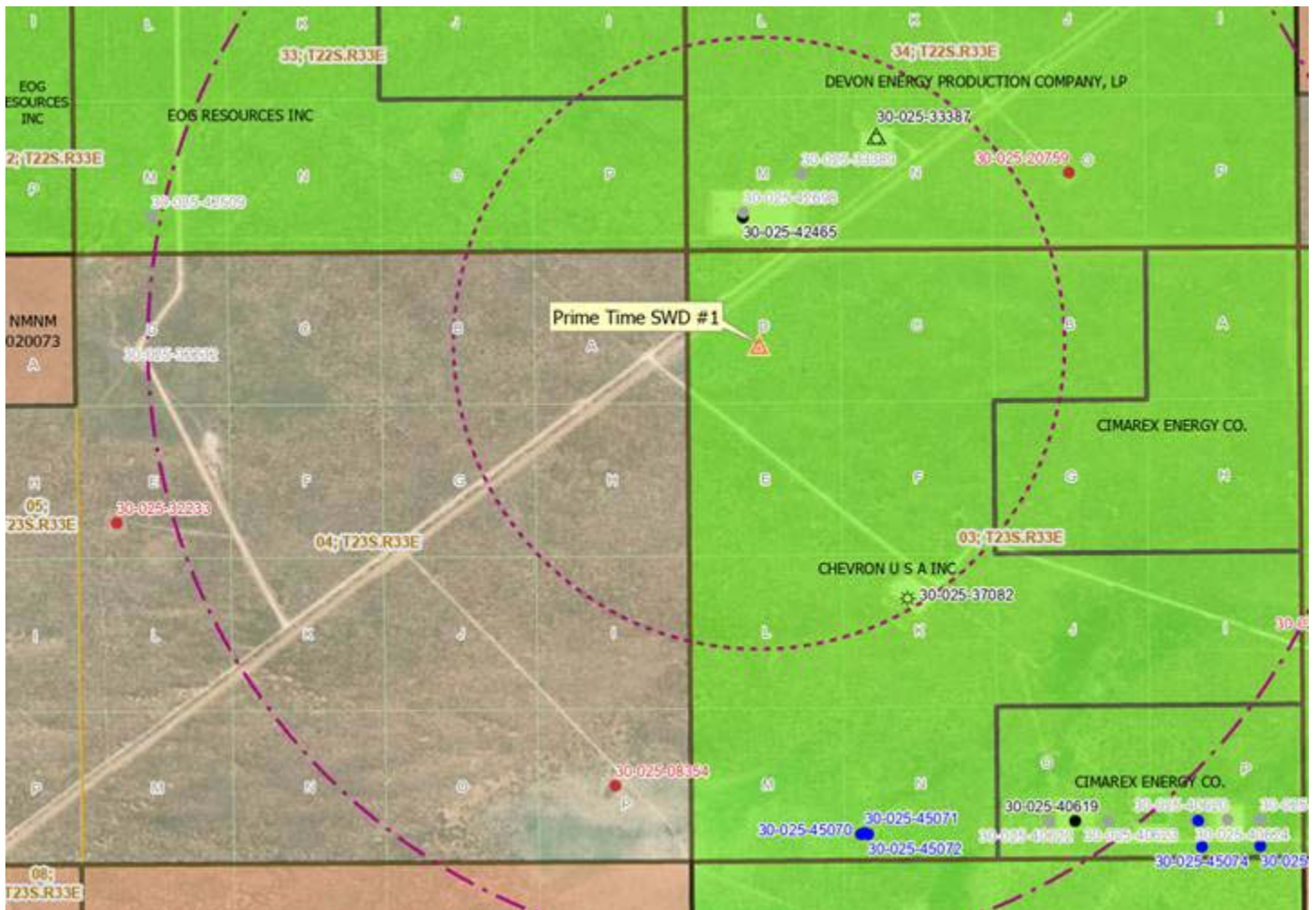
From: Andrew Parker <andrew@rthicksconsult.com>
Sent: Thursday, July 18, 2019 11:34 AM
To: McMillan, Michael, EMNRD; r@rthicksconsult.com
Cc: Jones, William V, EMNRD; Goetze, Phillip, EMNRD; 'Claudius Sanchez'
Subject: RE: [EXT] RE: AWR Disposal LLC Prime Time SWD Well No. 1

The BLM and NMSLO oil and gas lease database does not list any leases for these areas.

As show in the screenshot below:

- SW/4 SW/4 of Section 35 T22S-33E. No Oil or Gas wells exist in the quarter quarter (Unit Letter M).
- Section 4, T23S-33E. All three oil and gas wells are either plugged or application canceled.
- The aerial photograph (basemap) does not show any other oil/gas production pads.

One could conclude that since there is no current oil and gas activity in these two areas that no oil and gas leases exist.



Andrew Parker

R.T. Hicks Consultants
Durango Field Office
970-570-9535

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Thursday, July 18, 2019 11:12 AM
To: Andrew Parker; r@rthicksconsult.com
Cc: Jones, William V, EMNRD; Goetze, Phillip, EMNRD; 'Claudius Sanchez'
Subject: RE: [EXT] RE: AWR Disposal LLC Prime Time SWD Well No. 1

Is the BLM and NMSLO the lessor of these two tracts?

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

From: Andrew Parker <andrew@rthicksconsult.com>
Sent: Thursday, July 18, 2019 11:09 AM
To: r@rthicksconsult.com; McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; 'Claudius Sanchez' <claudius.sanchez@magrym.com>
Subject: [EXT] RE: AWR Disposal LLC Prime Time SWD Well No. 1

Mr. McMillian:

Regarding notification:

- SW/4 SW/4 of Section 35 T22S-33E. Plate 2a shows that a lease does not exist in the quarter quarter. However, Plate 2b shows the surface owner as BLM. The BLM was notified as shown on the certified mail receipt (Page 42 of 48 of submittal package).
- Section 4, T23S-33E. Plate 2a shows that a lease does not exist in the quarter quarter. However, Plate 2b shows the surface owner as State (State of New Mexico). The NM State Land Office was notified as shown on the certified mail receipt (Page 42 of 48 of submittal package).

Andrew Parker
R.T. Hicks Consultants
Durango Field Office
970-570-9535

From: r@rthicksconsult.com [mailto:r@rthicksconsult.com]
Sent: Thursday, July 18, 2019 10:50 AM
To: 'McMillan, Michael, EMNRD'
Cc: 'Jones, William V, EMNRD'; 'Goetze, Phillip, EMNRD'; 'Claudius Sanchez'; andrew@rthicksconsult.com
Subject: RE: AWR Disposal LLC Prime Time SWD Well No. 1

Mike

Please expect a response to the **first item** of your email from Andrew Parker. In the future, Andrew will also use scan the certified mail receipts in black and white in the future.

For the **second item**, Claudius Sanchez will provide the requested pdf.

Randall Hicks, PG
505-238-9515 (cell)
505-266-5004
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104

From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Thursday, July 18, 2019 10:44 AM
To: r@rthicksconsult.com
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: AWR Disposal LLC Prime Time SWD Well No. 1

Randy:
The OCD has received payment for the AWR Disposal LLC Prime Time SWD Well No. 1

I am unclear that SW/4 SW/4 of Section 35 T22S-33E affected party was notified.
I am also unclear the Section 4, T23S-33E affected party was notified.

Your application will be suspended until you provide proof of notice to the affected parties in these sections.

Can you also provide the **pdf of the purchase order-this will provide a date stamp to show that your application was received.**

Lastly, since the applications will be downloaded from the Pay Portal, the OCD would appreciate it if you scanned the **green cards in black and white instead of color** (the OCD had an application in which the colored green cards were 9MB- if they were in black and white they may only be 10% of that size)

Thanks

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

[Print](#)

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment



PO Number: 3L9LV-190718-C-1080

Payment Date: 7/18/2019 9:59:11 AM

Payment Amount: \$500.00

Payment Type: Credit Card

Application Type: Application for a fluid injection well permit.

Fee Amount: \$500.00

Application Status: Under OCD Review

OGRID: 328805

First Name: John

Last Name: Langdon

Email: john@bpranches.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.