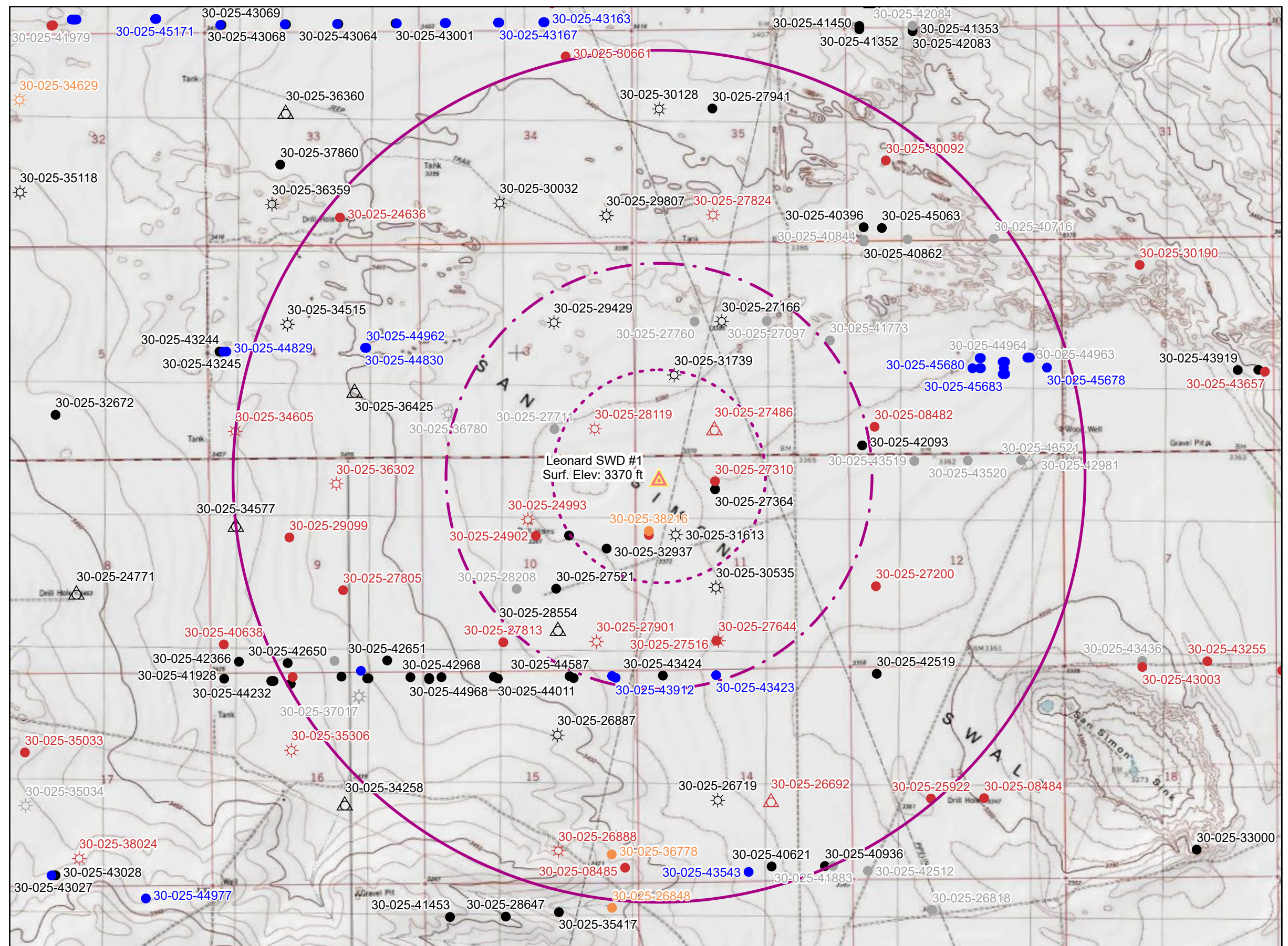
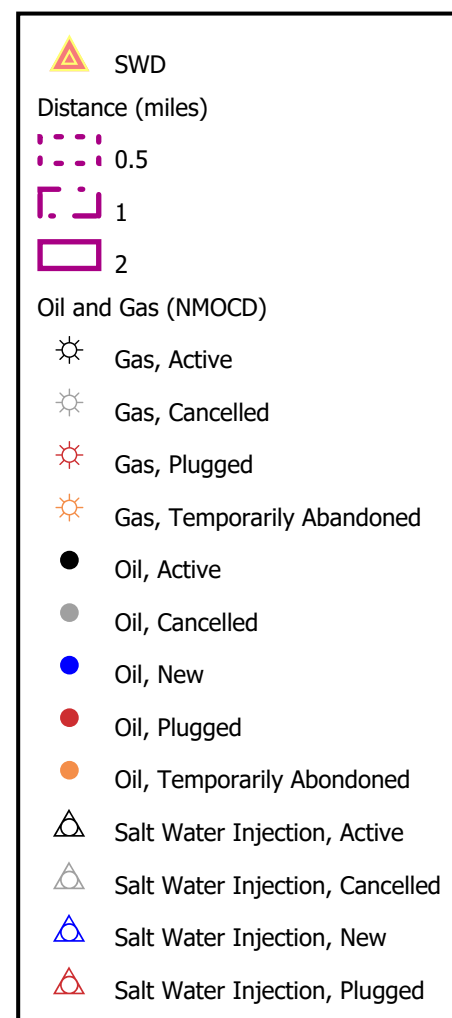


Application

Part *II*

Plates

Plate 1	OCD wells within the area of review
Plate 2	Mineral leases within the area of review
Plate 3	Water supply wells within the area of review
Plate 4	Surface water within the area of review



0 0.25 0.5 Miles

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

NM Oil and Gas Wells within 2 Mile

AWR Disposal, LLC
Leonard SWD #1

Plate 1a

June 2019

 SWD

Distance (miles)

 0.5

 1

 2

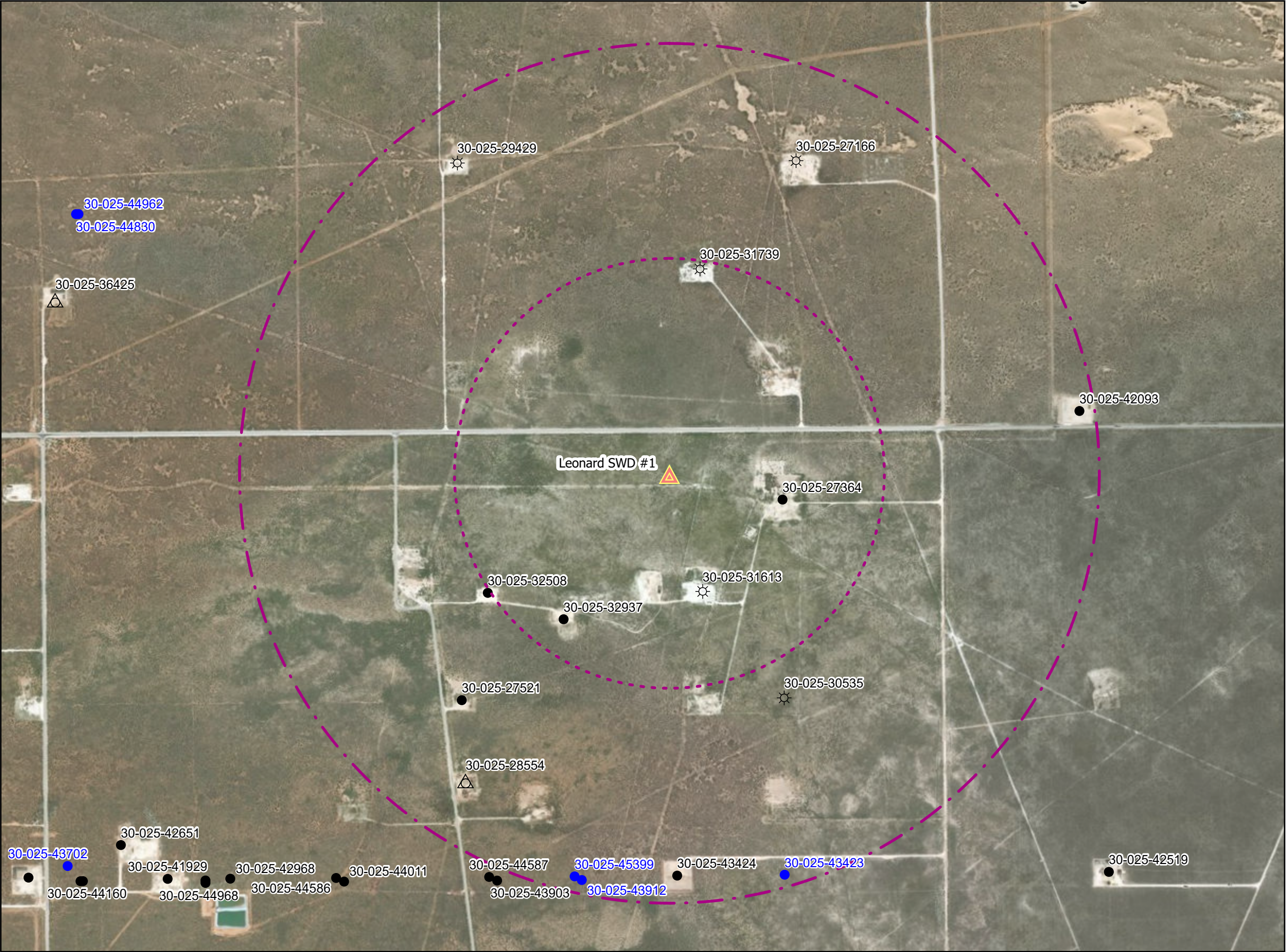
Oil and Gas (NMOCD)

 Gas, Active

 Oil, Active

 Oil, New

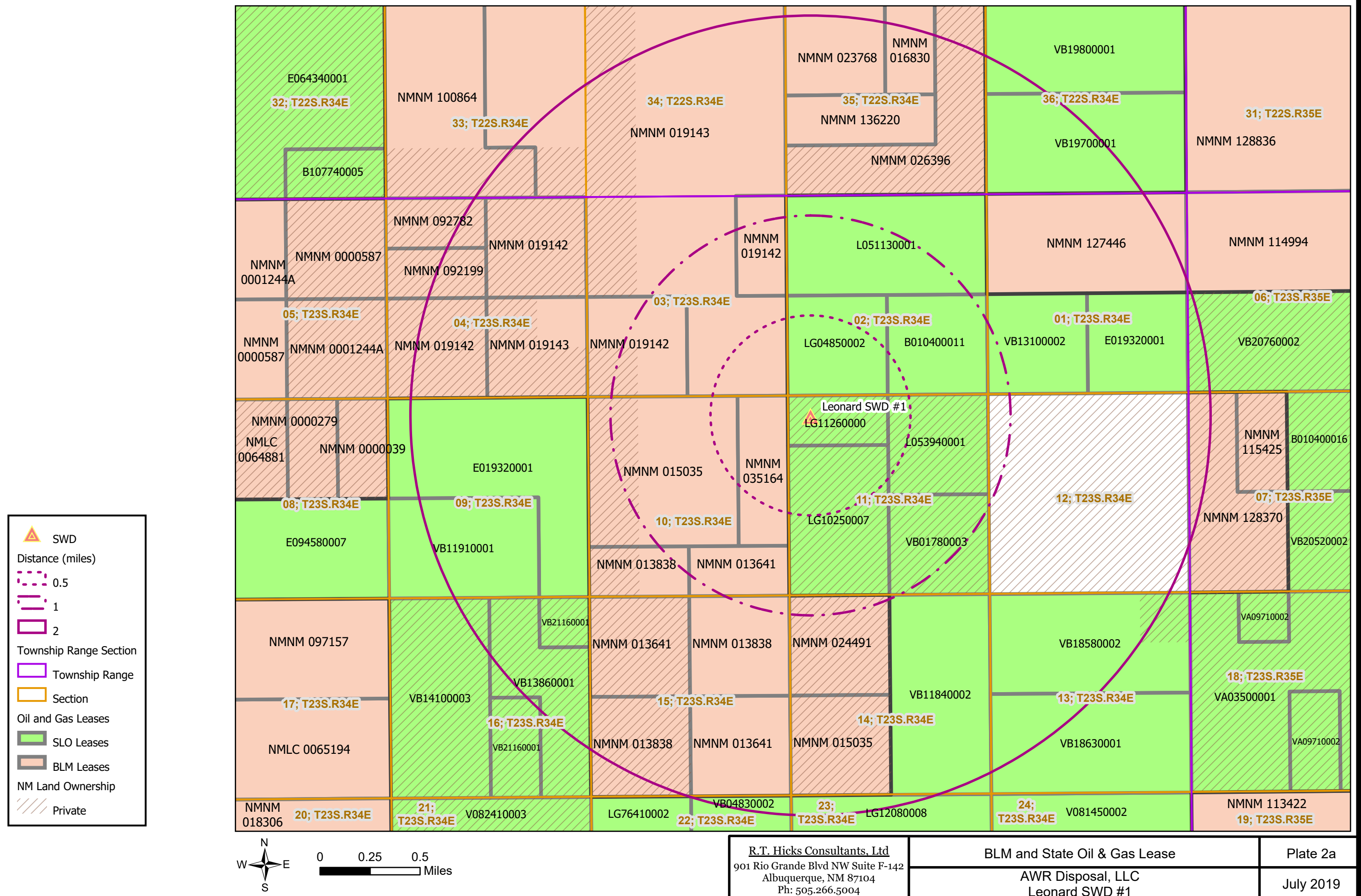
 Salt Water Injection, Active

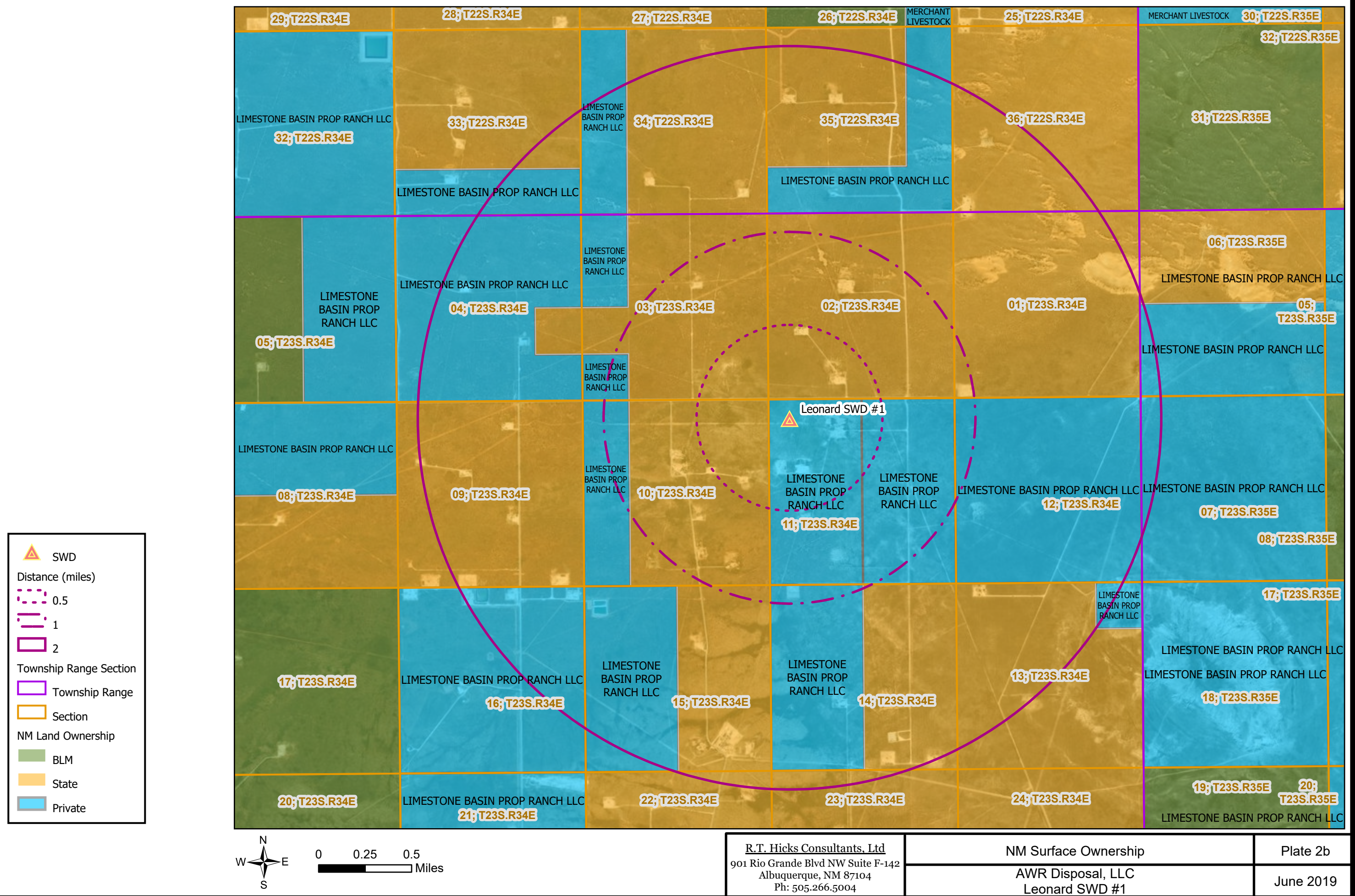


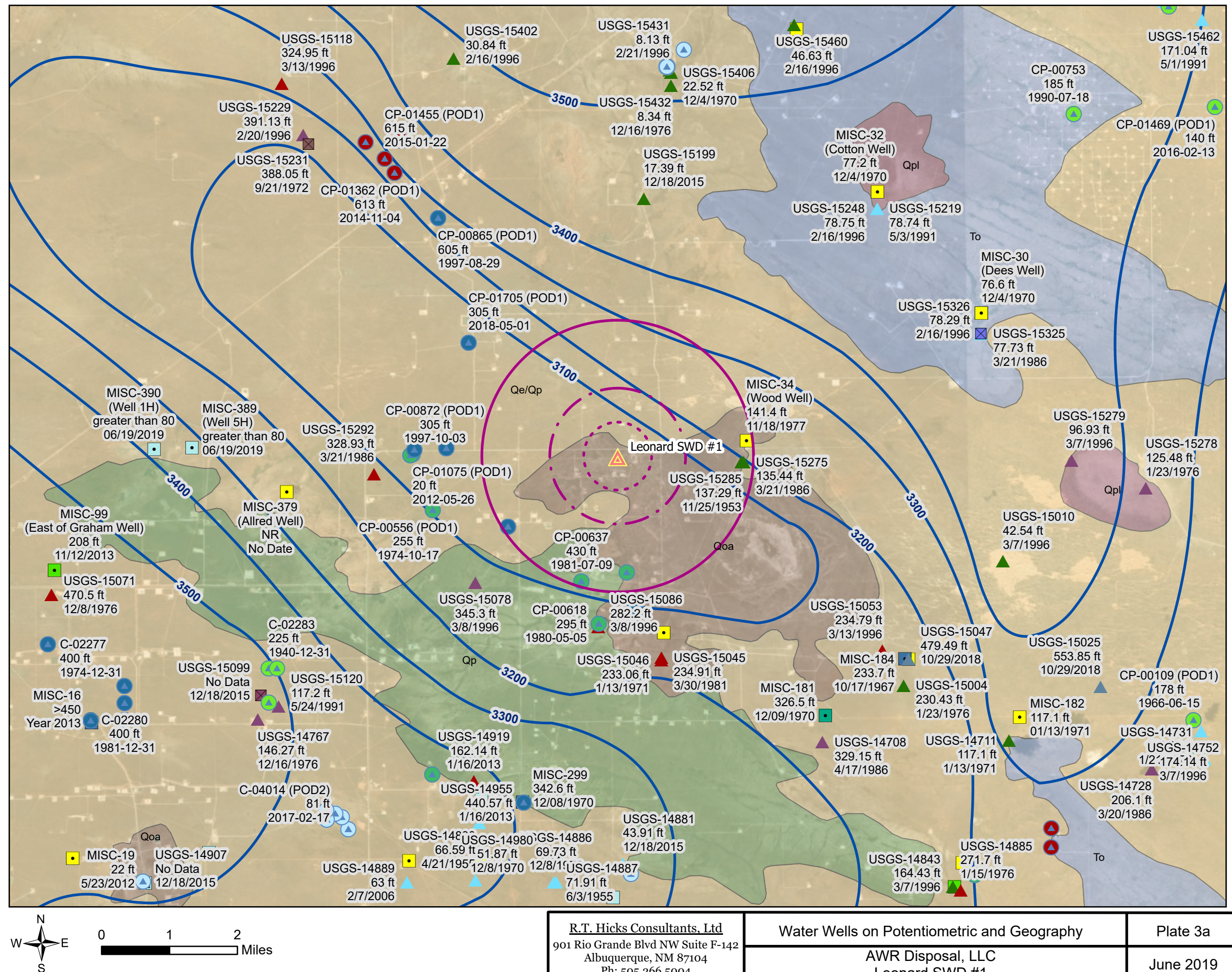
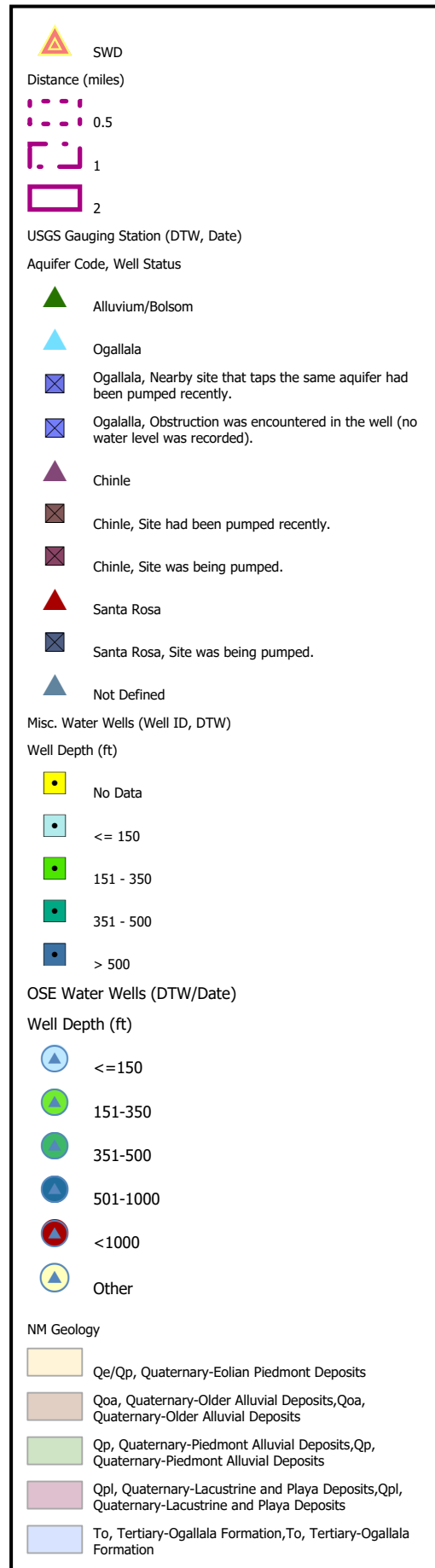
R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

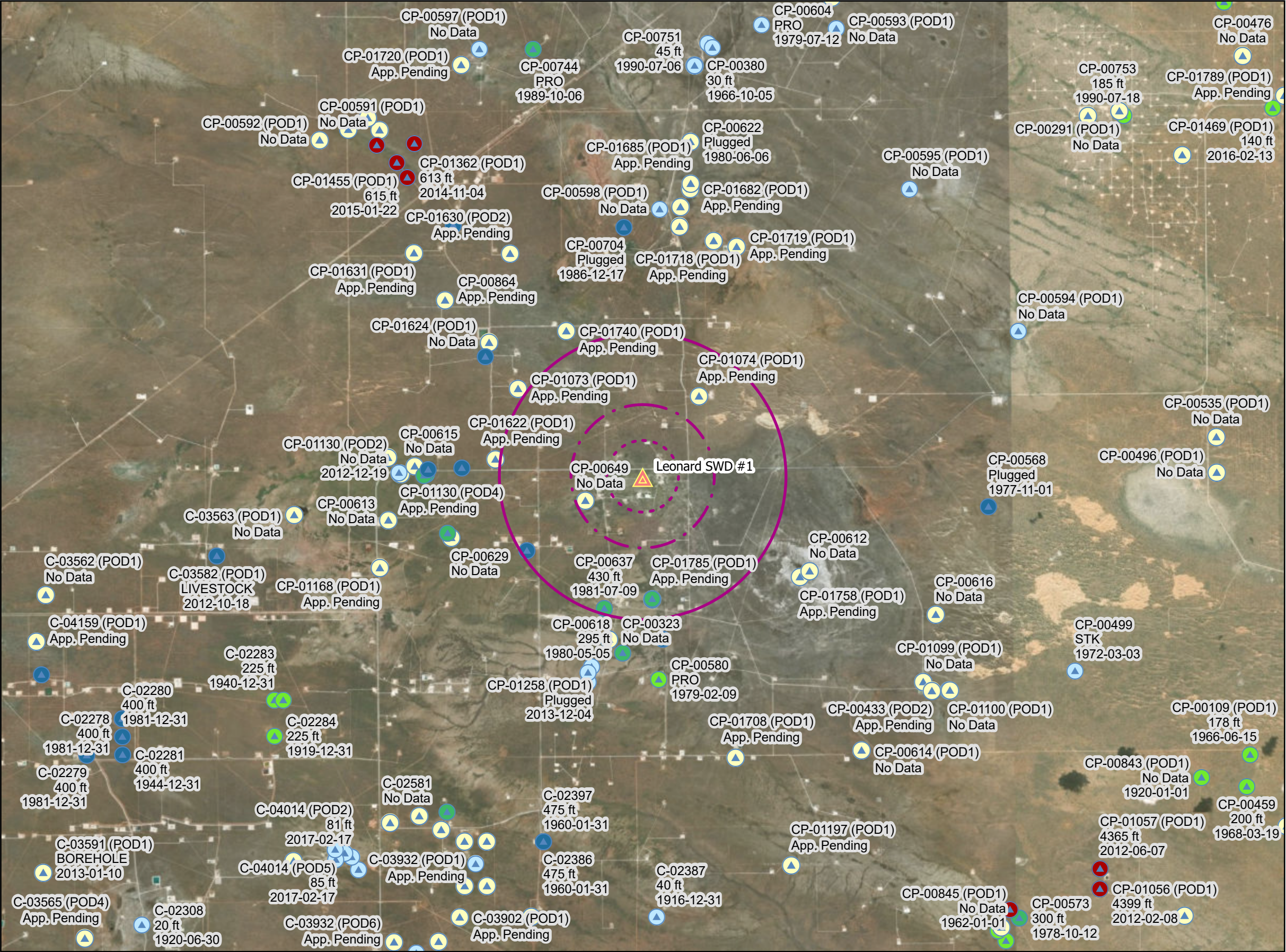
NM Oil and Gas Wells within 1 Mile (active only)	
AWR Disposal, LLC Leonard SWD #1	

Plate 1b
June 2019









 SWD

Distance (miles)

 0.5

 1

 2

OSE Water Wells (DTW/Date)

Well Depth (ft)

 <=150

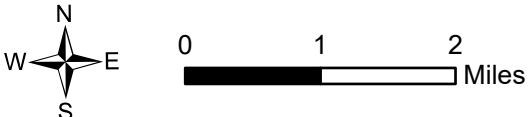
 151-350

 351-500

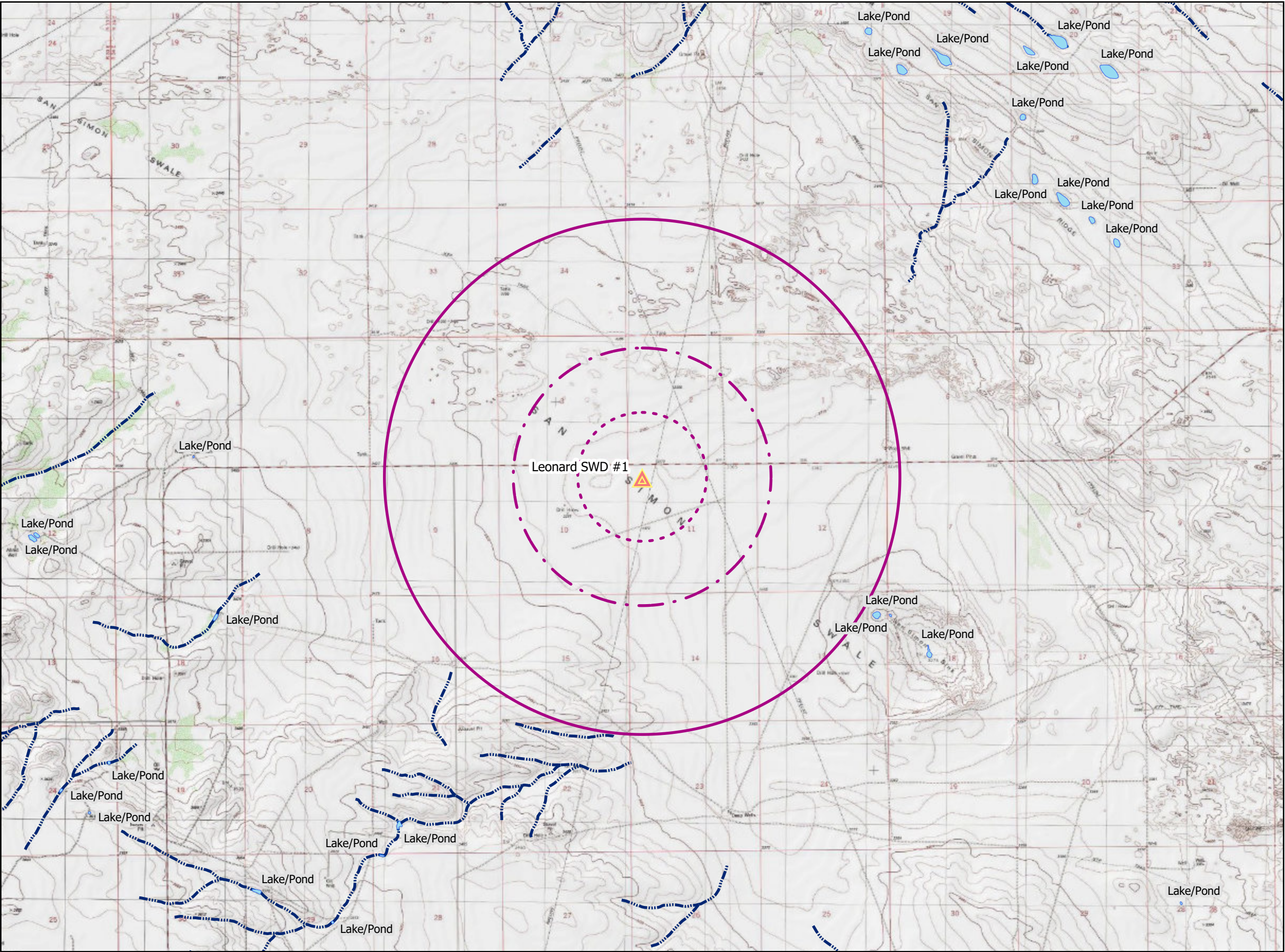
 501-1000

 <1000

 Other



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Nearby OSE Water Wells	Plate 3b
	AWR Disposal, LLC Leonard SWD #1	June 2019



 SWD

Distance (miles)

 0.5

 1

 2

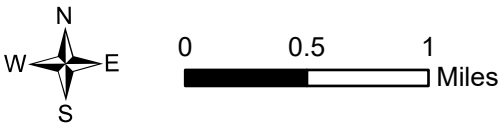
Water Bodies (1307)

 Lake/Pond

River and Drainages (1307)

 Stream/River Artificial Path

 Intermittent Stream



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Nearby Surface Water	Plate 4
	AWR Disposal, LLC Leonard SWD #1	June 2019

Tables

Table 1	OCD wells within the area of review
Table 2a	BLM leases within the area of review
Table 2b	State leases within the area of review
Table 2c	Surface Owner
Table 3	Produced Water Chemistry of Nearby Wells
Table 4	Formational water quality data

API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
30-025-08482	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	M-01-23S-34E	4455	
30-025-08485	7586	ESTORIL PRODUCING CORP	O	P	BELCO FEDERAL #003	1	P-15-23S-34E	5493	
30-025-24636	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	O-33-22S-34E	3840	
30-025-24902	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	G-10-23S-34E	4143	
30-025-24993	168687	SIANA OPERATING LLC	G	P	TRIPLE A FEDERAL #001	1	F-10-23S-34E	13600	[70455] ANTELOPE RIDGE, WOLFCAMP, N (GAS)
30-025-25922	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	K-13-23S-34E	13914	
30-025-26692	249099	CAZA OPERATING, LLC	S	P	CAZA RIDGE 14 STATE #001	1	J-14-23S-34E	13543	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH; [70360] ANTELOPE RIDGE, ATOKA (GAS); [97869] SWD, DEVONIAN-SILURIAN
30-025-26719	370351	WYNN-CROSBY OPERATING, LP	G	A	SUPRON 14 FEDERAL COM #001	1	K-14-23S-34E	13600	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-26887	372098	MARATHON OIL PERMIAN LLC	G	A	ADOBE FEDERAL COM #001	1	G-15-23S-34E	13274	[70440] ANTELOPE RIDGE, MORROW (GAS); [70450] ANTELOPE RIDGE, STRAWN (GAS)
30-025-26888	372098	MARATHON OIL PERMIAN LLC	G	P	BELCO FEDERAL COM #001	1	O-15-23S-34E	13239	[70450] ANTELOPE RIDGE, STRAWN (GAS)
30-025-27097	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #001	1	G-02-23S-34E	0	
30-025-27166	260297	BTA OIL PRODUCERS, LLC	G	A	ANTELOPE 8006 JVP #001	1	F-02-23S-34E	13600	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-27200	14829	MID-AMERICA PET INC	O	P	MADDOX #001	1	L-12-23S-34E	13622	[66453] LEA UNDESIGNATED, GROUP 10
30-025-27310	3002	BTA OIL PRODUCERS	O	P	HUDSON STATE 8006 JV-P #001	1	C-11-23S-34E	1495	
30-025-27364	260297	BTA OIL PRODUCERS, LLC	O	A	HUDSON STATE 8006 JV-P #001Y	1	C-11-23S-34E	13410	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70400] ANTELOPE RIDGE, DEVONIAN (GAS)
30-025-27486	260297	BTA OIL PRODUCERS, LLC	S	H	STATE 2 8016 JV-P #001	1	N-02-23S-34E	13380	[70360] ANTELOPE RIDGE, ATOKA (GAS); [96039] WILDCAT, GROUP 8; [96100] SWD, DELAWARE; [96802] SWD, BELL CANYON-CHERRY CANYON
30-025-27516	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	N-11-23S-34E	703	
30-025-27521	168687	SIANA OPERATING LLC	O	A	TRIPLE A FEDERAL #002	1	J-10-23S-34E	11300	[2210] ANTELOPE RIDGE, CHERRY CANYON
30-025-27644	214263	PRE-ONGARD WELL OPERATOR	G	P	PRE-ONGARD WELL #001Y	1	N-11-23S-34E	13600	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-27711	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #001	1	O-03-23S-34E	0	
30-025-27760	3002	BTA OIL PRODUCERS	O	C	ANTELOPE 8006 JVP #002	1	F-02-23S-34E	0	
30-025-27805	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	J-09-23S-34E	11031	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-27813	11158	J C WILLIAMSON	O	P	LISA FEDERAL #001	1	N-10-23S-34E	9870	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-27824	260297	BTA OIL PRODUCERS, LLC	G	P	MADDOX FEDERAL 8016 JV-P #001	1	N-35-22S-34E	13650	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-27901	372098	MARATHON OIL PERMIAN LLC	G	P	BELCO FEDERAL COM #002	1	P-10-23S-34E	13350	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-27941	260297	BTA OIL PRODUCERS, LLC	O	A	MADDOX FEDERAL B 8016 JV-P #001	1	F-35-22S-34E	13650	[70440] ANTELOPE RIDGE, MORROW (GAS); [96717] ANTELOPE RIDGE, BRUSHY CANYON
30-025-28119	214263	PRE-ONGARD WELL OPERATOR	G	P	PRE-ONGARD WELL #001	1	P-03-23S-34E	13538	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-28208	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #001	1	K-10-23S-34E	0	
30-025-28554	168687	SIANA OPERATING LLC	S	A	APD FEDERAL #001	1	O-10-23S-34E	7188	[2210] ANTELOPE RIDGE, CHERRY CANYON; [96769] SWD, BELL CANYON
30-025-29099	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	F-09-23S-34E	80	
30-025-29429	260297	BTA OIL PRODUCERS, LLC	G	A	MAXUS A 8026 JV-P #001	1	G-03-23S-34E	13600	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-29807	260297	BTA OIL PRODUCERS, LLC	G	A	MAXUS B 8026 JV-P #001	1	P-34-22S-34E	13562	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-30032	260297	BTA OIL PRODUCERS, LLC	G	A	MAXUS B 8026 JV-P #002	1	N-34-22S-34E	13428	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-30092	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	L-36-22S-34E	13700	
30-025-30128	260297	BTA OIL PRODUCERS, LLC	G	A	MADDOX FEDERAL B 8016 JV-P #002	1	E-35-22S-34E	12500	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-30535	260297	BTA OIL PRODUCERS, LLC	G	A	BRIAN 8036 JV-P #001	1	L-11-23S-34E	13440	[70360] ANTELOPE RIDGE, ATOKA (GAS)
30-025-31613	260297	BTA OIL PRODUCERS, LLC	G	A	HUDSON STATE 8016 JV-P #002	1	E-11-23S-34E	13387	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-31739	260297	BTA OIL PRODUCERS, LLC	G	A	STATE 2 8016 JV-P COM #002	1	L-02-23S-34E	13460	[70360] ANTELOPE RIDGE, ATOKA (GAS); [70440] ANTELOPE RIDGE, MORROW (GAS)
30-025-32508	256512	CML EXPLORATION, LLC	O	A	TRIPLE A FEDERAL #003	1	G-10-23S-34E	7200	[2210] ANTELOPE RIDGE, CHERRY CANYON
30-025-32937	168687	SIANA OPERATING LLC	O	A	NEWKUMET FEDERAL #001	1	H-10-23S-34E	8008	[96717] ANTELOPE RIDGE, BRUSHY CANYON
30-025-34515	6137	DEVON ENERGY PRODUCTION COMPANY, LP	G	A	RIO BLANCA 4 FEDERAL COM #001	1	F-04-23S-34E	14597	[70440] ANTELOPE RIDGE, MORROW (GAS); [71920] BELL LAKE, MORROW, NORTH (GAS); [97328] BELL LAKE, DEVONIAN, NE (GAS)
30-025-34577	6137	DEVON ENERGY PRODUCTION COMPANY, LP	S	A	CABALLO 9 STATE #001	1	E-09-23S-34E	13435	[2207] ANTELOPE RIDGE, BONE SPRING, NW; [70360] ANTELOPE RIDGE, ATOKA (GAS); [70450] ANTELOPE RIDGE, STRAWN (GAS); [71920] BELL LAKE, MORROW, NORTH (GAS); [96802] SWD, BELL CANYON-CHERRY CANYON
30-025-36302	6137	DEVON ENERGY PRODUCTION COMPANY, LP	G	P	RIO BLANCO 9 STATE #001	1	B-09-23S-34E	14654	[97328] BELL LAKE, DEVONIAN, NE (GAS)
30-025-36425	6137	DEVON ENERGY PRODUCTION COMPANY, LP	S	A	RIO BLANCO 4 FEDERAL COM #003	1	J-04-23S-34E	14653	[96101] SWD, DEVONIAN; [97328] BELL LAKE, DEVONIAN, NE (GAS)
30-025-36778	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	E	MAD DOG 15 FEDERAL COM #001	1	P-15-23S-34E	14832	[97436] ANTELOPE RIDGE, DEVONIAN, NORTH (GAS)
30-025-36780	6137	DEVON ENERGY PRODUCTION COMPANY, LP	G	C	RIO BLANCO 3 FEDERAL #001	1	L-03-23S-34E	0	
30-025-37017	25575	EOG Y RESOURCES, INC.	G	C	IMPALA BFM STATE COM #001	1	B-16-23S-34E	0	
30-025-38216	4323	CHEVRON U S A INC	O	T	KELLER 11 STATE #001Y	1	E-11-23S-34E	8900	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH; [2210] ANTELOPE RIDGE, CHERRY CANYON
30-025-38225	25575	EOG Y RESOURCES, INC.	G	C	IMPALA BFM STATE COM #001	1	B-16-23S-34E	0	
30-025-38530	147179	CHESAPEAKE OPERATING, INC.	O	P	KELLER 11 STATE #001	1	E-11-23S-34E	3997	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-40396	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	A	PRYOR STATE COM #001H	1	M-36-22S-34E	8826	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40621	249099	CAZA OPERATING, LLC	O	A	CAZA RIDGE 14 STATE #003H	1	O-14-23S-34E	11260	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-40715	260511	GMT EXPLORATION COMPANY LLC	O	C	PRYOR STATE COM #002C	1	N-36-22S-34E	0	[96553] OJO CHISO, BONE SPRING; [97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40716	260511	GMT EXPLORATION COMPANY LLC	O	C	PRYOR STATE COM #006C	1	O-36-22S-34E	0	[96553] OJO CHISO, BONE SPRING; [97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40717	260511	GMT EXPLORATION COMPANY LLC	O	C	PRYOR STATE COM #004D	1	4-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40844	260511	GMT EXPLORATION COMPANY LLC	O	C	PRYOR STATE COM #005C	1	M-36-22S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40862	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	A	PRYOR FEDERAL STATE COM #004H	1	4-01-23S-34E	8903	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-40874	229137	COG OPERATING LLC	O	A	GETTYSBURG STATE COM #002H	1	C-16-23S-34E	10452	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-40916	229137	COG OPERATING LLC	O	A	GETTYSBURG STATE COM #003H	1	B-16-23S-34E	10485	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-40936	249099	CAZA OPERATING, LLC	O	A	CAZA RIDGE 14 STATE #004H	1	P-14-23S-34E	9	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-41236	229137	COG OPERATING LLC	O	P	VETO STATE COM #002H	1	C-16-23S-34E	8568	[96322] BELL LAKE, DELAWARE, EAST
30-025-41773	260297	BTA OIL PRODUCERS, LLC	O	C	HUDSON STATE 8016 JV-P #003C	1	H-02-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-41929	229137	COG OPERATING LLC	O	A	GETTYSBURG STATE COM #004H	1	A-16-23S-34E	10457	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-42093	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	A	PRYOR DBR FEDERAL STATE COM #001H	1	M-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-42365	14744	MEWBOURNE OIL CO	O	C	ANTELOPE 9 B3OB STATE COM #001C	1	O-09-23S-34E	0	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-42519	229137	COG OPERATING LLC	O	A	BANTER STATE COM #004H	1	D-13-23S-34E	11349	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-42650	14744	MEWBOURNE OIL CO	O	A	ANTELOPE 9 B2NC STATE COM #001H	1	N-09-23S-34E	10343	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-42651	14744	MEWBOURNE OIL CO	O	A	ANTELOPE 9 B3PA STATE #001H	1	P-09-23S-34E	11299	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-42968	14744	MEWBOURNE OIL CO	O	A	PRONGHORN 15 B3DM FEDERAL COM #001H	1	D-15-23S-34E	11378	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-42981	308339	OWL SWD OPERATING, LLC	S	C	LIMESTONE SWD #002C	1	A-12-23S-34E	0	[96101] SWD, DEVONIAN
30-025-43423	14744	MEWBOURNE OIL CO	O	N	ORYX 14 B3CN FEDERAL COM #001H	1	C-14-23S-34E	0	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-43424	14744	MEWBOURNE OIL CO	O	A	ORYX 14 B3DM FEDERAL COM #001H	1	D-14-23S-34E	11299	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-43519	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DOUBLE DRAGON 12 #001C	1	C-12-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-43520	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DUCK HUNT 12 #001C	1	B-12-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-43521	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	NINJA GAIDEN 12 #001C	1	A-12-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-43543	249099	CAZA OPERATING, LLC	O	N	CAZA RIDGE 14 STATE #006H	1	O-14-23S-34E	0	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-43702	14744	MEWBOURNE OIL CO	O	N	ANTELOPE 9 B3OB STATE COM #001H	1	O-09-23S-34E	0	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-43903	14744	MEWBOURNE OIL CO	O	A	PRONGHORN 15 B3BO FEDERAL #001H	1	B-15-23S-34E	11281	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-43912	14744	MEWBOURNE OIL CO	O	N	PRONGHORN 15 B3AP FEDERAL COM #001H	1	A-15-23S-34E	0	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-44011	14744	MEWBOURNE OIL CO	O	A	PRONGHORN 15 B3CN FEDERAL COM #001H	1	C-15-23S-34E	11340	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-44159	229137	COG OPERATING LLC	O	A	GETTYSBURG STATE COM #011H	1	A-16-23S-34E	11433	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-44160	229137	COG OPERATING LLC	O	A	GETTYSBURG STATE COM #012H	1	B-16-23S-34E	11593	[2209] ANTELOPE RIDGE, BONE SPRING, WEST
30-025-44585	14744	MEWBOURNE OIL CO	O	A	IBEX 10 B3MD FEDERAL COM #001H	1	D-15-23S-34E	11261	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-44586	14744	MEWBOURNE OIL CO	O	A	IBEX 10 B3NC FEDERAL COM #001H	1	C-15-23S-34E	11300	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-44587	14744	MEWBOURNE OIL CO	O	A	IBEX 10 B3OB FEDERAL COM #001H	1	B-15-23S-34E	11288	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-44830	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	RIO BLANCO 4 33 FEDERAL COM #039H	1	G-04-23S-34E	0	[97922] WC-025 G-06 S223421L, BONE SPRING
30-025-44962	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	N	RIO BLANCO 4 33 FEDERAL COM #005H	1	G-04-22S-34E	0	[97922] WC-025 G-06 S223421L, BONE SPRING
30-025-44963	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DUCK HUNT 1 STATE COM #601C	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-44964	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DUCK HUNT 1 STATE COM #602C	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-44968	14744	MEWBOURNE OIL CO	O	A	ANTELOPE 9 B2PA STATE #002H	1	D-15-23S-34E	10328	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-45063	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	A	MORTAL KOMBAT 36 STATE COM #502H	1	M-36-22S-34E	10420	[97293] OJO CHISO, BONE SPRING, SOUTH

API	ogrid	ogrid_name	well_type	status	wellname	district	ulstr	tot_depth	pool_id_li
30-025-45264	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DUCK HUNT 1 STATE COM #301C	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45265	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #501H	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45266	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	C	DUCK HUNT 1 STATE COM #601C	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45399	14744	MEWBOURNE OIL CO	O	N	IBEX 10 B3PA FEDERAL COM #001H	1	A-15-23S-34E	0	[2207] ANTELOPE RIDGE, BONE SPRING, NW
30-025-45562	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #301H	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45563	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #302H	1	J-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45564	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #401H	1	J-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45565	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #502H	1	J-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45566	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #601H	1	I-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45567	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DUCK HUNT 1 STATE COM #602H	1	J-01-23S-34E	0	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
30-025-45675	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #301H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45676	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #302H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45677	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #303H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45678	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #501H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45679	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #502H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45680	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #503H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45681	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #601H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH
30-025-45683	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	O	N	DONKEY KONG 1 FEDERAL COM #603H	1	J-01-23S-34E	0	[97293] OJO CHISO, BONE SPRING, SOUTH

Serial Number		Name1	TWN	RNG	SEC	Unit_Ltr
NMNM	013641	MEWBOURNE OIL CO	23S	34E	10	O,P
NMNM	013641	MEWBOURNE OIL CO	23S	34E	15	C,D,E,F,I,J,O,P
NMNM	013838	DEVON ENERGY PROD CO LP	23S	34E	10	M,N
NMNM	013838	DEVON ENERGY PROD CO LP	23S	34E	15	A,B,G,H,K,L,M,N
NMNM	015035	NORTEX CORP	23S	34E	10	B,C,D,E,F,G,J,K,L
NMNM	015035	NORTEX CORP	23S	34E	14	K,L,M,N
NMNM	016830		22S	34E	35	B
NMNM	016830		22S	34E	35	G
NMNM	019142	EOG RESOURCES INC	23S	34E	03	D,H,K,L,M,N
NMNM	019142	EOG RESOURCES INC	23S	34E	04	C,D,G,H,K,L,M,N
NMNM	019143	OCCIDENTAL PERMIAN LP	23S	34E	03	A,B,C,E,F,G,I,J,O,P
NMNM	019143	OCCIDENTAL PERMIAN LP	23S	34E	04	I,J,O,P
NMNM	019143	OCCIDENTAL PERMIAN LP	22S	34E	33	H,I,J,P
NMNM	019143	OCCIDENTAL PERMIAN LP	22S	34E	34	A,B,C,E,F,G,H,I,J,K,L,M,N,O,P
NMNM	023768		22S	34E	35	C,D,E,F
NMNM	024491	DEVON ENERGY PROD CO LP	23S	34E	14	C,D,E,F
NMNM	026396		22S	34E	35	A,H,I,M,N,O,P
NMNM	035164	ESTORIL PROD CORP	23S	34E	10	A,H,I
NMNM	092199	DEVON ENERGY PROD CO LP	23S	34E	04	E,F
NMNM	092782	LANDRETH ROBERT E	23S	34E	04	B
NMNM	100864	DEVON ENERGY PROD CO LP	22S	34E	33	N,O
NMNM	114994	DEVON ENERGY PROD CO LP	23S	35E	06	E
NMNM	127446		23S	34E	01	A,B,C,D,E,F,G,H
NMNM	128370		23S	35E	07	A,B,C,D
NMNM	136220	XTO ENERGY INC	22S	34E	35	J,K,L

Lease Number	OGRID_CDE	OGRID_NAM	TWN	RNG	SEC	Unit_Ltr
B010400011	42632	APACHE CORPORATION	23S	34E	02	I,J,O,P
E019320001	217817	CONOCOPHILLIPS COMPANY	23S	34E	01	I,J,O,P
E019320001	217817	CONOCOPHILLIPS COMPANY	23S	34E	09	A,B,C,D,E,F,G,H,I,P
L051130001	24010	V-F PETROLEUM INC	23S	34E	02	A,B,C,D,E,F,G,H
L053940001	3002	BTA OIL PRODUCERS	23S	34E	11	A,B,G,H
LG04850002	3002	BTA OIL PRODUCERS	23S	34E	02	K,L,M,N
LG10250007	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	23S	34E	11	E,F,K,L,M,N
LG11260000	77431	EDWARD R HUDSON JR	23S	34E	11	C,D
LG12080008	261044	MRC PERMIAN COMPANY	23S	34E	23	B,C,D
LG76410002	228039	SIANA OIL & GAS CO.	23S	34E	22	C
VB01780003	229137	COG OPERATING LLC	23S	34E	11	I,J,O,P
VB04830002	190595	ENDEAVOR ENERGY RESOURCES, LP	23S	34E	22	A,B
VB11840002	326734	CAZA PETROLEUM, LLC.	23S	34E	14	A,B,G,H,I,J,O,P
VB11910001	90723	MEWBOURNE OIL COMPANY	23S	34E	09	J,K,L,M,N,O
VB13100002	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	23S	34E	01	K,L,M,N
VB13860001	229137	COG OPERATING LLC	23S	34E	16	B,G,H,I,P
VB14100003	229137	COG OPERATING LLC	23S	34E	16	C,F
VB18580002	25575	EOG Y RESOURCES, INC.	23S	34E	13	A,B,C,D,E,F,G,J,K,L,M
VB19700001	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	22S	34E	36	J,K,L,M,N,O,P
VB19800001	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	22S	34E	36	E,F
VB20760002	372165	CENTENNIAL RESOURCE PRODUCTION, LLC	23S	35E	06	L,M
VB21160001	184290	THE ALLAR COMPANY	23S	34E	16	A,J

UPC_XY	PARCELCODE	NAME	Address 1	Address 2	City	State	Zip	Zip4	TWN	RNG	SEC	Unit_Ltr
4200135266266	4000501770004	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	16	A,B,C,F,G,H,I,J,P
4204134264266	4000501770006	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	35E	07	D,E,L,M
4202134398264	4000501780003	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	11	A,B,G,H,I,J,O,P
4203133266265	4000501790003	STATE OF NEW MEXICO		310 OLD SANTA FE TRAIL	SANTA FE	NM	87501		23S	34E	01	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
4202134134266	4000501790004	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	11	C,D,E,F,K,L,M,N
4204133265398	4000501790005	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	35E	06	I,M
4200132267463	4000501800002	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		22S	34E	33	N,O,P
4201132675267	4000501800003	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		22S	34E	34	E,L,M
4202132351350	4000501800004	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		22S	34E	35	A,H,I,M,N,O,P
4201133671135	4000501800009	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	03	D,E,M
4200133253261	4000501800010	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	04	A,B,C,E,F,G,H,J,K,L,M,N,O,P
4201134682266	4000501800013	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	10	D,E,L,M
4203134266265	4000501800014	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	12	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
4203135462664	4000501800015	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	13	A
4202135134267	4000501800016	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	14	C,D,E,F,K,L,M,N
4201135134266	4000501800017	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE		MIDLAND	TX	79705		23S	34E	15	C,D,E,F,K,L,M,N
4204133264134	4900311125531	STATE OF NEW MEXICO		310 OLD SANTA FE TRAIL	SANTA FE	NM	87501		23S	35E	06	E
4202133266265		STATE - Limestone Livestock LLC							23S	34E	02	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
4201133312270		STATE - Limestone Livestock LLC							23S	34E	03	A,B,C,F,G,H,I,J,K,L,N,O,P
4200133465330		STATE - Limestone Livestock LLC							23S	34E	04	I
4200134266266		STATE - Limestone Livestock LLC							23S	34E	09	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
4201134332265		STATE - Keller RV LLC							23S	34E	10	A,B,C,F,G,H,I,J,K,N,O,P
4203135253279		STATE - Keller RV LLC							23S	34E	13	B,C,D,E,F,G,J,K,L,M
4202135398264		STATE - Keller RV LLC							23S	34E	14	A,B,G,H,I,J,O,P
4201135398264		STATE - Keller RV LLC							23S	34E	15	A,B,G,H,I,J,O,P
4201136265133		STATE - Keller RV LLC							23S	34E	22	A,B,C
4202136253261		STATE - Keller RV LLC							23S	34E	23	B,C,D
4202133328323		STATE - Limestone Livestock LLC							22S	34E	33	H,I,J
4202133328323		STATE - Limestone Livestock LLC							22S	34E	34	A,B,C,F,G,H,I,J,K,N,O,P
4202133328323		STATE - Limestone Livestock LLC							22S	34E	35	B,C,D,E,F,G,J,K,L
4203131267529		STATE - Limestone Livestock LLC							22S	34E	36	E,F,J,K,L,M,N,O,P

Table 3
Produced Water

wellname	api	section	township	range	unit	county	state	field	formation	samplesource	samplodate	ph	tds_mgl	resistivity_ohm_cm	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl	CorrectFlag
GAUCHO UNIT #011H	3002541184	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		2/20/2015 0:00	6.8			43301	5338	0	769	0	78300	122	640	120	FALSE
NEW MEXICO BS STATE #001	3002508468	1	22S	34E	I	LEA	NM			DST			129792						70560	412	9365		TRUE	
SLATTERY PERMIT #001	3002508473	7	22S	34E	G	LEA	NM			UNKNOWN			4460						2502	158	243		TRUE	
GAUCHO UNIT #001	3002533440	29	22S	34E	G	Lea	NM				5/19/2001 0:00	7.83	19593.3		6825.3	543	49	70	11533	450	39	90	FALSE	
GAUCHO 21 FEDERAL #001	3002534266	21	22S	34E	L	Lea	NM				5/19/2001 0:00	6.67	6188.8		2079.6	215	25	30	3593	183	39	90	FALSE	
GAUCHO UNIT #003	3002534557	20	22S	34E	N	Lea	NM				5/19/2001 0:00	5.02	628.8		118.9	18	83	2	200	109.8	92	125	FALSE	
GAUCHO UNIT #006	3002534789	17	22S	34E	P	Lea	NM				5/19/2001 0:00	5.98	46757.5		16350.9	1379	150	162	28247	158.6	152	175	FALSE	
GAUCHO UNIT #011H	3002541184	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		9/30/2015 0:00	7.5	156141.2	0.041	48642.5	6969.8	30.2	943.9	1.46	97977.9	305	1005	470	FALSE
GAUCHO UNIT #012H	3002541564	20	22S	34E	A	Lea	NM		BONE SPRING 2ND SAND		9/30/2015 0:00	7	109808.2	0.058	35202.7	5341.4	30.8	755.2	0.62	66984.9	280.6	1030	320	FALSE
GAUCHO UNIT #013H	3002541565	20	22S	34E	A	Lea	NM		BONE SPRING 2ND SAND		9/30/2015 0:00	7.5	139904.6	0.046	46238.1	6396.8	47.2	863.7	2.1	85080.8	292.8	740	550	FALSE
GAUCHO UNIT #015H	3002541566	20	22S	34E	D	Lea	NM		BONE SPRING 2ND SAND		9/30/2015 0:00	7.5	184420.1	0.035	55686.4	10540.1	47.6	1426	1.31	115274	268.4	765	770	FALSE
GAUCHO UNIT #007H	3002534440	17	22S	34E	K	Lea	NM		BONE SPRING 2ND SAND		9/5/2014 0:00	6.4	151777.7		50554.2	5768.6	86.9	717.9	1.29	91600	244	0	200	FALSE
GAUCHO 21 FEDERAL #002H	3002540626	21	22S	34E	M	Lea	NM		DELAWARE-BRUSHY CANYON		9/25/2014 0:00	5.9	266467.8		71664.2	20660.8	50.2	3492.5	3.8	167562	366	0	400	FALSE
GAUCHO UNIT #006	3002534789	17	22S	34E	P	Lea	NM				10/6/2014 0:00	6.5	107770.6		36197.3	4012.5	176.5	596.2	2.69	63874.9	244	0	400	FALSE
GAUCHO UNIT #010H	3002541183	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		3/20/2015 0:00	6.4			46191	3712	0	560	0	79230	183	700	100	FALSE
GAUCHO UNIT #007H	3002534440	17	22S	34E	K	Lea	NM		BONE SPRING 2ND SAND		5/6/2015 0:00	6.7			49601	21	0	1	0	76000	281	586	352	FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				9/8/2004 0:00	6.3	62533.4		20306.4	2713	6	404		37110	270	966		FALSE
RIO BLANCO 33 FEDERAL #002	3002536360	33	22S	34E	F	Lea	NM				9/8/2004 0:00	5.7	488.5		0	19	207	4		133	104	15		FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				12/16/2004 0:00	6.2	68159.8		23712.4	1846	5	299		40341	207.4	1112	85	FALSE
RIO BLANCO 33 FEDERAL #002	3002536360	33	22S	34E	F	Lea	NM				12/16/2004 0:00	6.1	67936.8		25431.7	761	23	99		40139	228.1	1062	100	FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				4/26/2005 0:00	5.8	79359.8		27048.4	2664	12	362		47015	290.4	1270		FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				5/23/2005 0:00	6	72120.7		24577	2429	44	348		42714	290.4	1178		FALSE
RIO BLANCO 33 FEDERAL #002	3002536360	33	22S	34E	F	Lea	NM				5/23/2005 0:00	6	72064.7		24088.8	2661	17	476		42799	290.4	1132		FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				6/30/2005 0:00	6.1	66506.9		21582.6	2932	8	444		39405	414.8	1022	45	FALSE
RIO BLANCO 33 FEDERAL #002	3002536360	33	22S	34E	F	Lea	NM				6/30/2005 0:00	6	69796.6		24035.5	2180	3.5	317		41236	456.3	1074	100	FALSE
RIO BLANCO 33 FEDERAL #003	3002537860	33	22S	34E	K	Lea	NM				5/3/2007 0:00	5.2	222115		59159.9	18937	59	3545	5	136732	219.6	817	200	FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				7/23/2007 0:00	6.1	77880.9		26903.7	2370	2	306	0.3	45432	366	1941	50	FALSE
RIO BLANCO 33 FEDERAL #003	3002537860	33	22S	34E	K	Lea	NM				7/23/2007 0:00	5.6	280006.2		80104.2	21131	35	3442	4	172189	61	879	330	FALSE
GAUCHO 21 FEDERAL #001	3002534266	21	22S	34E	L	Lea	NM				12/16/2014 0:00	6.5			48879	6182	11	802	0.12	88836	122	1240	70	FALSE
GAUCHO 21 FEDERAL #002H	3002540626	21	22S	34E	M	Lea	NM		DELAWARE-BRUSHY CANYON		12/16/2014 0:00	6.5			95433	33964	36	5149	6.9	224384	366	210	200	FALSE
GAUCHO UNIT #011H	3002541184	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		12/16/2014 0:00	6.5			48879	6182	11	802	0.12	88836	122	1240	70	FALSE
GAUCHO UNIT #006	3002534789	17	22S	34E	P	Lea	NM		BONE SPRING 3RD SAND		5/13/2015 0:00	6.8			32062	4909	163	1027	2.4	61000	305	16	220	FALSE
RIO BLANCO 33 FEDERAL #001	3002536359	33	22S	34E	N	Lea	NM				5/13/2015 0:00	6			73721	26380	10	2248	3.5	167000	49	167	990	FALSE
GAUCHO 21 FEDERAL #002H	3002540626	21	22S	34E	M	Lea	NM		DELAWARE-BRUSHY CANYON		5/13/2015 0:00	5.8			70837	26020	39	4726	7.7	169000	37	341	880	FALSE
GAUCHO UNIT #010H	3002541183	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		5/13/2015 0:00	6.8			29047	8190	14	1367	0.41	63000	207	308	176	FALSE
GAUCHO UNIT #011H	3002541184	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		5/13/2015 0:00	6.8			32064	8057	15	1472	0.58	67000	183	1309	220	FALSE
GAUCHO UNIT #012H	3002541564	20	22S	34E	A	Lea	NM		BONE SPRING 2ND SAND		5/13/2015 0:00	6.9			37508	4553	17	427	0.65	68000	427	97	286	FALSE
GAUCHO UNIT #013H	3002541565	20	22S	34E	A	Lea	NM		BONE SPRING 2ND SAND		5/13/2015 0:00	7			47943	1788	4.2	408	0.11	77000	305	1600	330	FALSE
GAUCHO UNIT #014H	3002541571	20	22S	34E	D	Lea	NM		BONE SPRING 2ND SAND		5/13/2015 0:00	6.7			46477	4803	13	800	1.3	82000	320	624	330	FALSE
GAUCHO UNIT #007H	3002534440	17	22S	34E	K	Lea	NM		BONE SPRING 2ND SAND		9/9/2015 0:00	6.5	166697.6	0.038	53586.1	9072	47.4	981.2	1.27	101677.1	61	675	350	FALSE
RIO BLANCO 33 FEDERAL #003	3002537860	33	22S	34E	K	Lea	NM				9/9/2015 0:00	5.6	138283.7	0.046	44690.7	7319	28	807.6	0.85	83981.1	366	675	561.2	FALSE
GAUCHO UNIT #010H	3002541183	17	22S	34E	O	Lea	NM		BONE SPRING 3RD SAND		9/9/2015 0:00	5.58	165155.1	0.039	52757.1	9222	54.2	1040	1.44	100777.3	219.6	560	600	FALSE
GAUCHO UNIT #015H	3002541566	20	22S	34E	D	Lea	NM		BONE SPRING 2ND SAND		9/9/2015 0:00	5.42	158146.5	0.04	50243.6	9024	42.8	1042	1.08	96378.3	231.8	710	860	FALSE
RIO BLANCO 4 FEDERAL COM #003	3002536425	4	23S	34E	J	Lea	NM				9/3/2014 0:00	6.1	179000.8		53519.9	12080.6	38.7	1748.7	2.4	109000	122	0	200	FALSE
BELL LAKE UNIT #006	3002508483	6	23S	34E	O	LEA	NM	BELL LAKE NORTH SWD	DEVONIAN	HEATER TREATER		7	71078							42200	500	1000		TRUE
BELL LAKE UNIT #002	3002508489	30	23S	34E	N	LEA	NM		DELAWARE	UNKNOWN			52115							32200	451	529		TRUE
RIO BLANCO 4 FEDERAL COM #003	3002536425	4	23S	34E	J	Lea	NM				10/15/2015 0:00	7	254017.1	0.025	62818	24835.8	47	4233.5	5.48	160463.8	244	425	1000	FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM				10/15/2015 0:00	6.07	185742	0.034	60151.2	9297	80.6	1501	1.68	113474.4	341.6	560	800	FALSE
CABALLO 9 STATE #001	3002534577	9	23S	34E	E	Lea	NM				9/10/2014 0:00	7.81	71862.4		24399.6	2685.9	462.1	367.8	2.86	42700	576	0	0	FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM				9/10/2014 0:00	6.9	71718.6		23830.8	2540	0	346.3	0	42400	610	170	100	FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM				9/8/2004 0:00	6.1	43388.1		13982.1	1697	363	243		25721	207	574		FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM				12/16/2004 0:00	6.1	70316.5		25492.9	1361	7	162		41669	228.1	1011	100	FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM				12/16/2004 0:00	5.6	65810.3		15070.8	6754	28	2137		41261	165.9	277		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM				12/16/2004 0:00	6.2	71521.1		25245.7	1754	5	255		42308	207.4	1176	75	FALSE
RIO BLANCA 4 FEDERAL COM #001	3002534515	4	23S	34E	F	Lea	NM				4/26/2005 0:00	5.7	84267.8		28936.1	2670	64	383		50154	153.7	1230		FALSE
RIO BLANCO 9 STATE #001	3002536302	9	23S	34E	B	Lea	NM				4/26/2005 0:00	5.9	83217.6		28207.2	2817	1	493		49511	290.4	1188		FALSE
MAD DOG 15 FEDERAL COM #001	3002536778	15	23S	34E	P	Lea	NM				4/26/2005 0:00	5.8	81393.3		27656.1</									

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	