

Additional Information

Received: 08/02/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

McMillan, Michael, EMNRD

From: r@rthicksconsult.com
Sent: Friday, August 2, 2019 2:06 PM
To: McMillan, Michael, EMNRD
Cc: 'Andrew Parker'; 'Claudius Sanchez'; 'Olga Sanchez'; laura@source3.com; ed@rthicksconsult.com
Subject: FW: AWR Disposal Mutambo State SWD Well No. 1 - Notification of affected persons - Hopefully this will make reading our permits easier
Attachments: Plates1_2ForNotice.pdf; Tables1&2.pdf

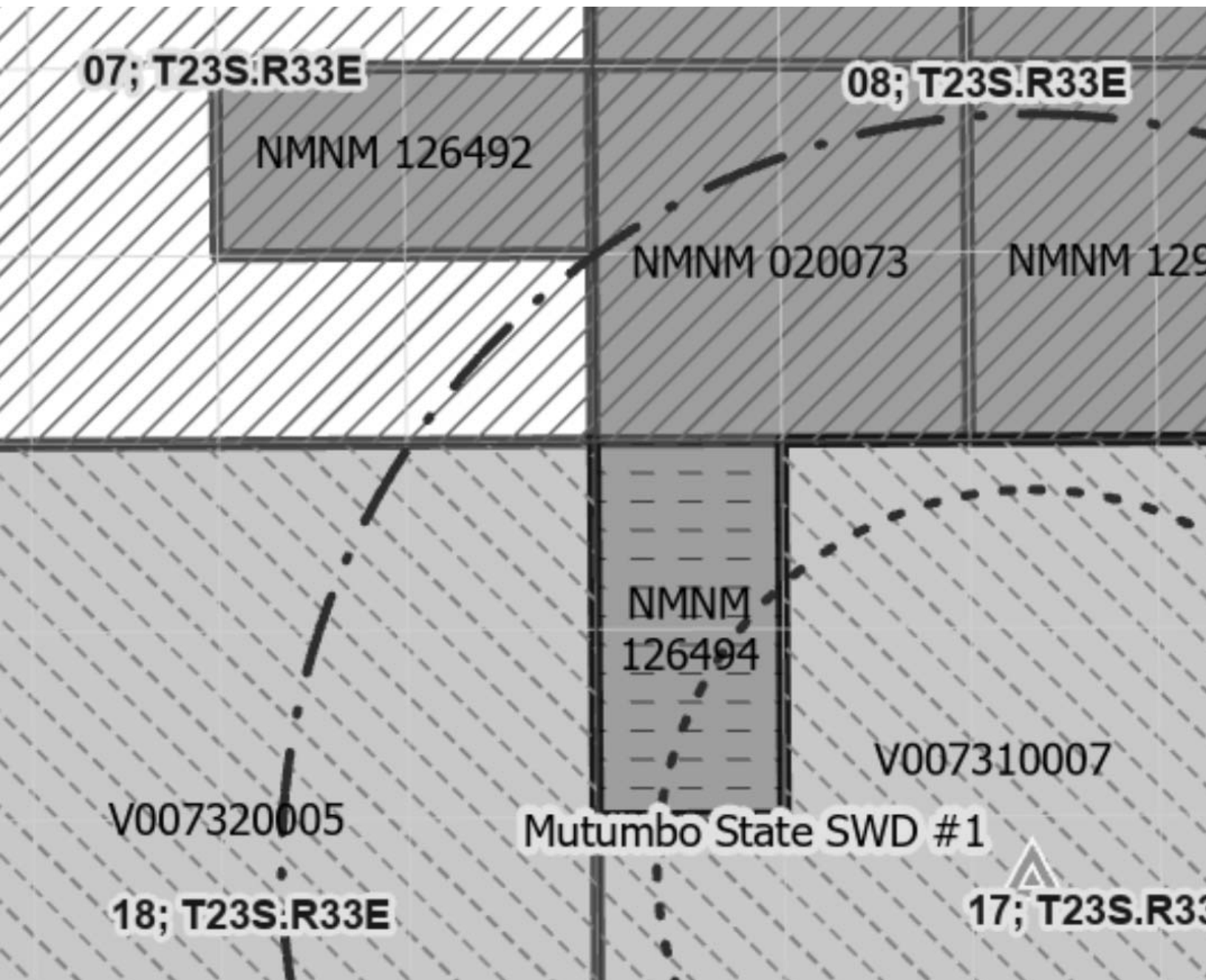
Mike

First – the affected person in Unit Letter P of Section 7 T23S R33E is the BLM, the mineral interest owner. The BLM has been notified with proof of notice on Page 46 of 55 of the application.

We are obviously having trouble with this issue. I would like your input so we can get this straightened out. You will see a similar issue with the Rodman application. I have copied others on the team and included references to the Rule and Form for their benefit (and mine).

For the Mutumbo SWD, the notice question involved the SE ¼ SE ¼ of Section 7, shown below. Here is how I answered your question.

In the blow-up of the attached Plate shown to the left, Unit Letter P of Section 7 is captured by the 1-mile AOR radius. This Unit letter lies within land that is not currently leased for oil and gas. Plate 2a and Plate 2b show “All minerals are owned by the BLM (US)” for Unit Letter P. Table 2d shows that minerals are owned by the BLM for Unit Letter P



Oil and Gas Leases



SLO Leases



BLM Leases

Mineral Ownership (BLM Dataset)



All minerals are owned by the BLM
(U.S.)



No minerals are owned by the BLM
(U.S.)



Other minerals are owned by the
BLM (U.S.)

Thus, the affected person in the unleased area within the 1-mile AOR is the BLM

You can stop reading this email right now provided that my explanation clarifies how our maps and tables work. If you want to see our data sources, etc., I made a list below.

BACKGROUND ON THE DATA SOURCES AND OUR TABLES/MAPS

Based upon meetings (not with me), phone calls (not with me) and emails (that I have read), I understand that the applicant must notify

1. Operators of wells within the 1-mile AOR of the SWD.
 - a. We obtain these data from OCD and show it on Plate 1 and Table 1 (see attached files)
2. Each leasehold operator within the 1-mile AOR.
 - a. Plate 2a presents this data as a map and
 - b. Table 2a shows BLM leases and Table 2b shows the State of NM leases.
 - c. We obtain the lease data from BLM and SLO databases.
3. Where there is no leaseholder of oil and gas minerals, as indicated in the definition of “Affected Persons”, we need to notify the mineral interest owner within the 1-mile AOR.
 - a. The mineral ownership is presented on Plates 2a and 2b and Table 2d.
 - b. These data come from the BLM database for Federal minerals.
 - c. We examine the SLO data to determine if the State of NM owns the minerals.
 - d. For unleased private land (and some SLO land) we employ a title search company to determine the mineral ownership.
 - e. Incidentally, you will note on the Legend “other minerals are owned by the BLM (US)” for UL D and E of Section 17. All of our work to date shows that these “other minerals” are oil and gas. UL D and E are

State of NM surface (see Plate 2b) and thus, the caliche is generally owned by the State but not necessarily the oil and gas. This is certainly the case for this Federal Lease 126494 to EOG Y Resources.

4. The owner of the surface on which the SWD is located.
 - a. We obtain these data from Lea County and
 - b. show it on Plate 2b, and
 - c. Table 2c for Mutumbo (see attached)
5. ALSO per OCD policy, the owner of lands within the 1-mile AOR of the proposed SWD.
 - a. We show this on Plate 2b,
 - b. and it also appears on Table 2c for Mutumbo

RULES AND POLICIES FOR NOTIFICATION

- Form C-108 indicates we need to notice via mail “to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location”
- We know the AOR for notice is 1-mile per OCD policy, not ½ mile
- The Rule says we must notice via US Mail “each owner of the land surface on which each injection or disposal well is to be located and to each leasehold operator and other affected persons, as defined in Subsection A of 19.15.2.7 NMAC, within any tract wholly or partially contained within one-half mile of the well..

The definition is

- (8) “Affected persons” means the following persons owning interests in a spacing unit or other identified tract:
- (a) the operator, as shown in division records, of a well on the tract, or, if the tract is included in a division-approved or federal unit, the designated unit operator;
 - (b) in the absence of an operator, or with respect to an application wherein the operator of the spacing unit or identified tract is the applicant, each working interest owner whose interest is evidenced by a written conveyance document either of record or known to the applicant as of the date the applicant files the application;
 - (c) as to any tract or interest therein that is not subject to an existing oil and gas lease, each mineral interest owner whose interest is evidenced by a written conveyance document either of record or known to the applicant as of the date the applicant filed the application; and
 - (d) if the United States or state of New Mexico owns the mineral estate in the spacing unit or identified tract or any part thereof, the BLM or state land office, as applicable; or
 - (e) if the mineral estate in the spacing unit or identified tract or any part thereof is tribal land, the BLM, the United States department of the interior, bureau of Indian affairs, and the relevant tribe.

FROM AUGUST 12-19 I AM “OFF THE GRID” ON A GRAND CANYON RAFT. DAVE HAMILTON AT THE OFFICE PHONE NUMBER CAN FIND YOU THE RIGHT PERSON TO CONTACT IN MY ABSENCE.

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, August 1, 2019 11:07 AM

To: r@rthicksconsult.com

Subject: RE: AWR Disposal Mutambo State SWD Well No. 1

You need to tell me who the affected parties are

I have discussed with Randy and just got off the phone with Andrew. Both agree that plate 2a reflects BLM and on plate 2b NM state as affected parties, both were notified and proof of mailing is in the document.

Laura Parker

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

From: McMillan, Michael, EMNRD

Sent: Thursday, August 1, 2019 8:35 AM

To: r@rthicksconsult.com

Subject: AWR Disposal Mutambo State SWD Well No. 1

Randy:

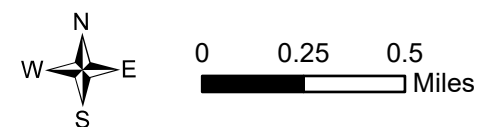
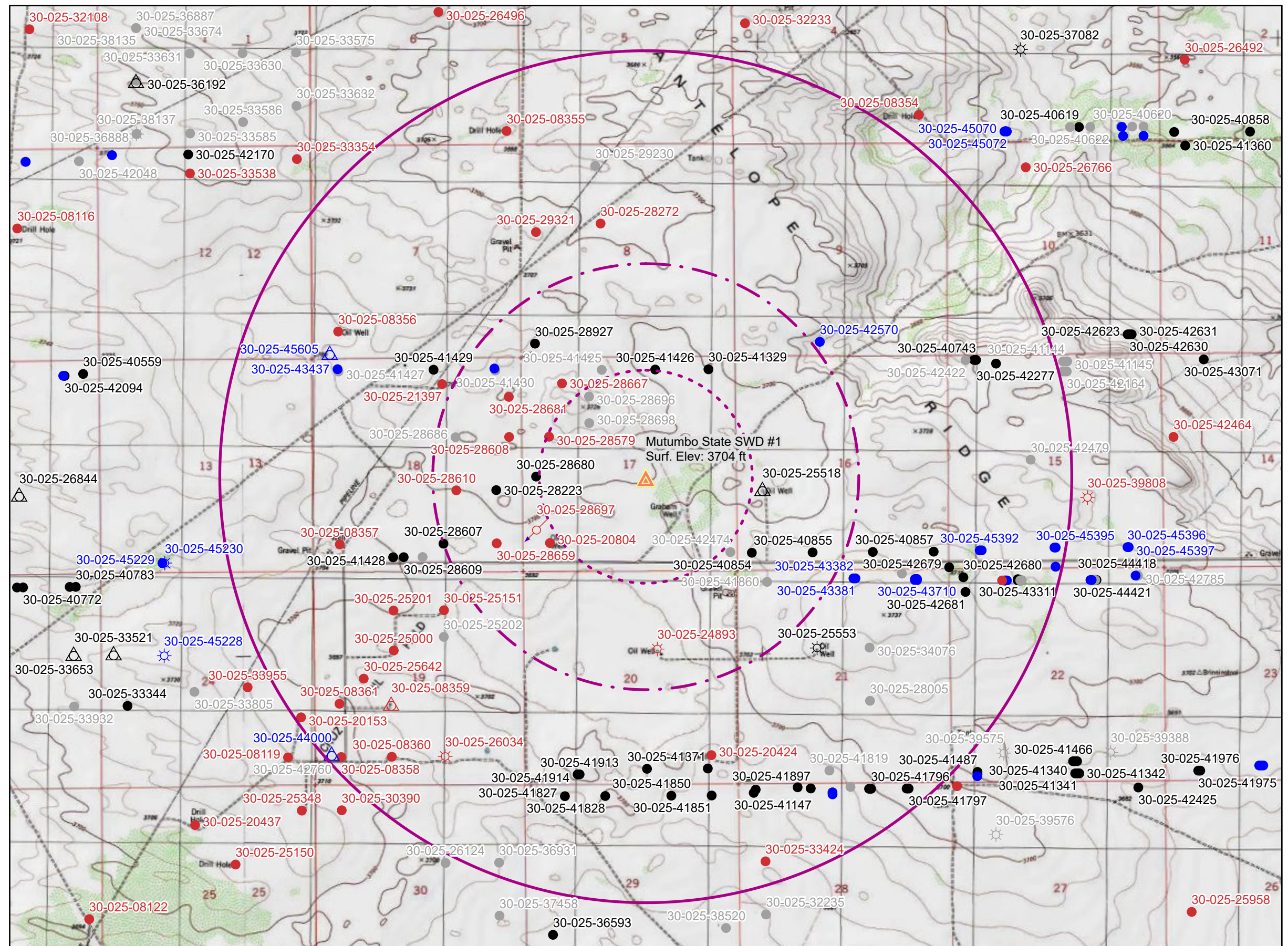
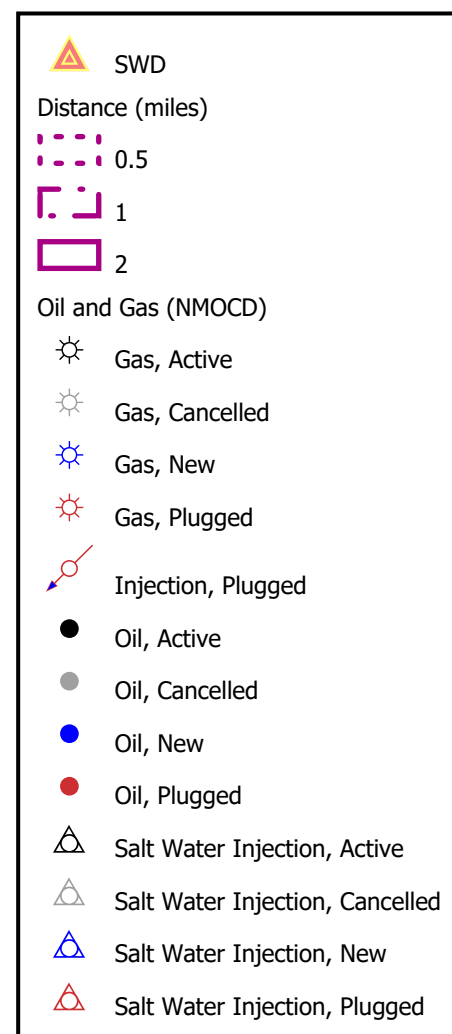
Your application for the AWR Disposal Mutambo State SWD Well No. 1 is suspended.

You did not provide proper notice of affected parties in the SE/4 SE/4 of Section 7.

Your application will be suspended until you provide proper notice.

Mike

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



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 Miles

AWR Disposal,LLC
Mutumbo State SWD #1

Plate 1a

July 2019

SWD

Distance (miles)

0.5

1

2

Oil and Gas (NMOCD)

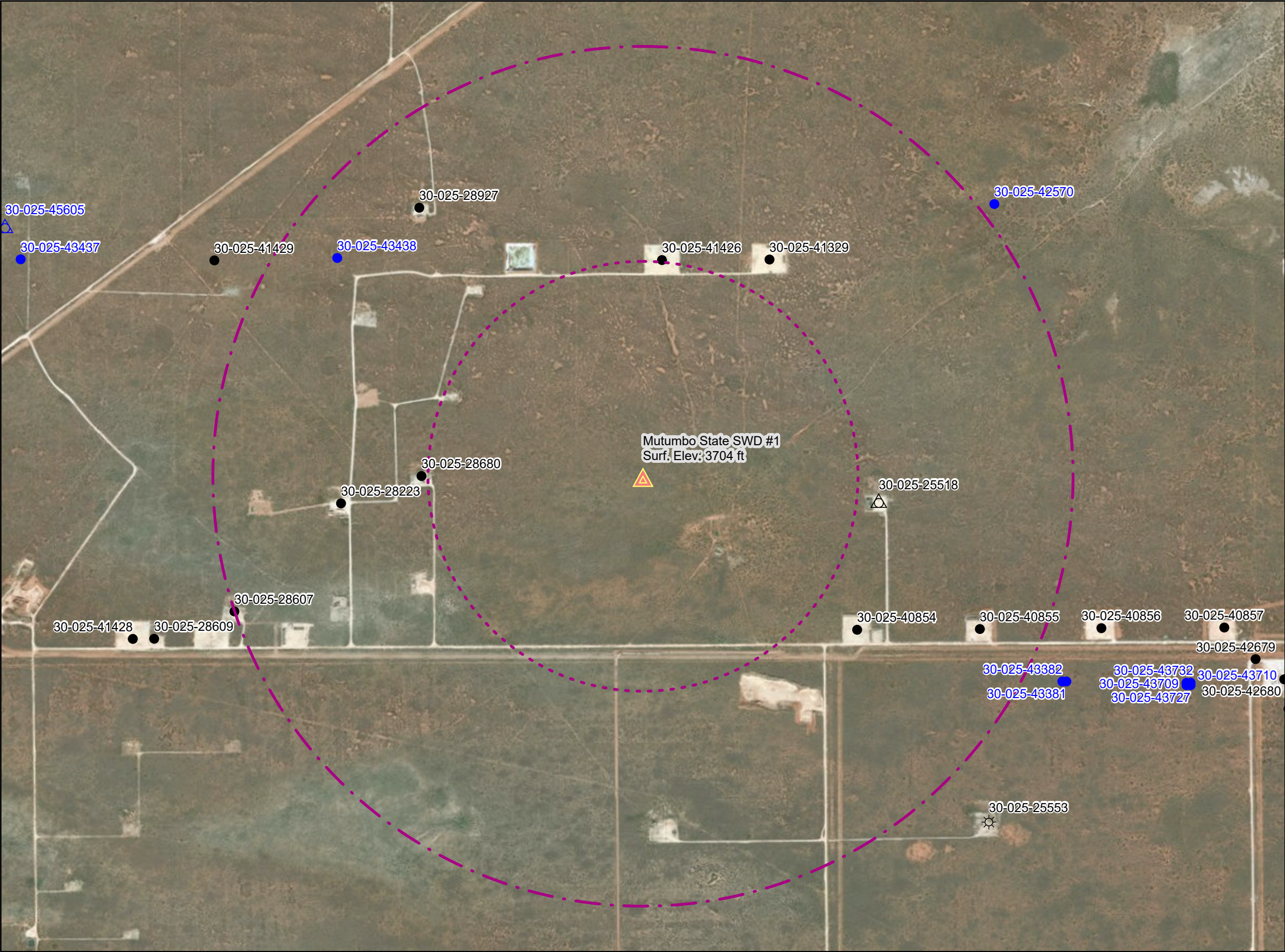
Gas, Active

Oil, Active

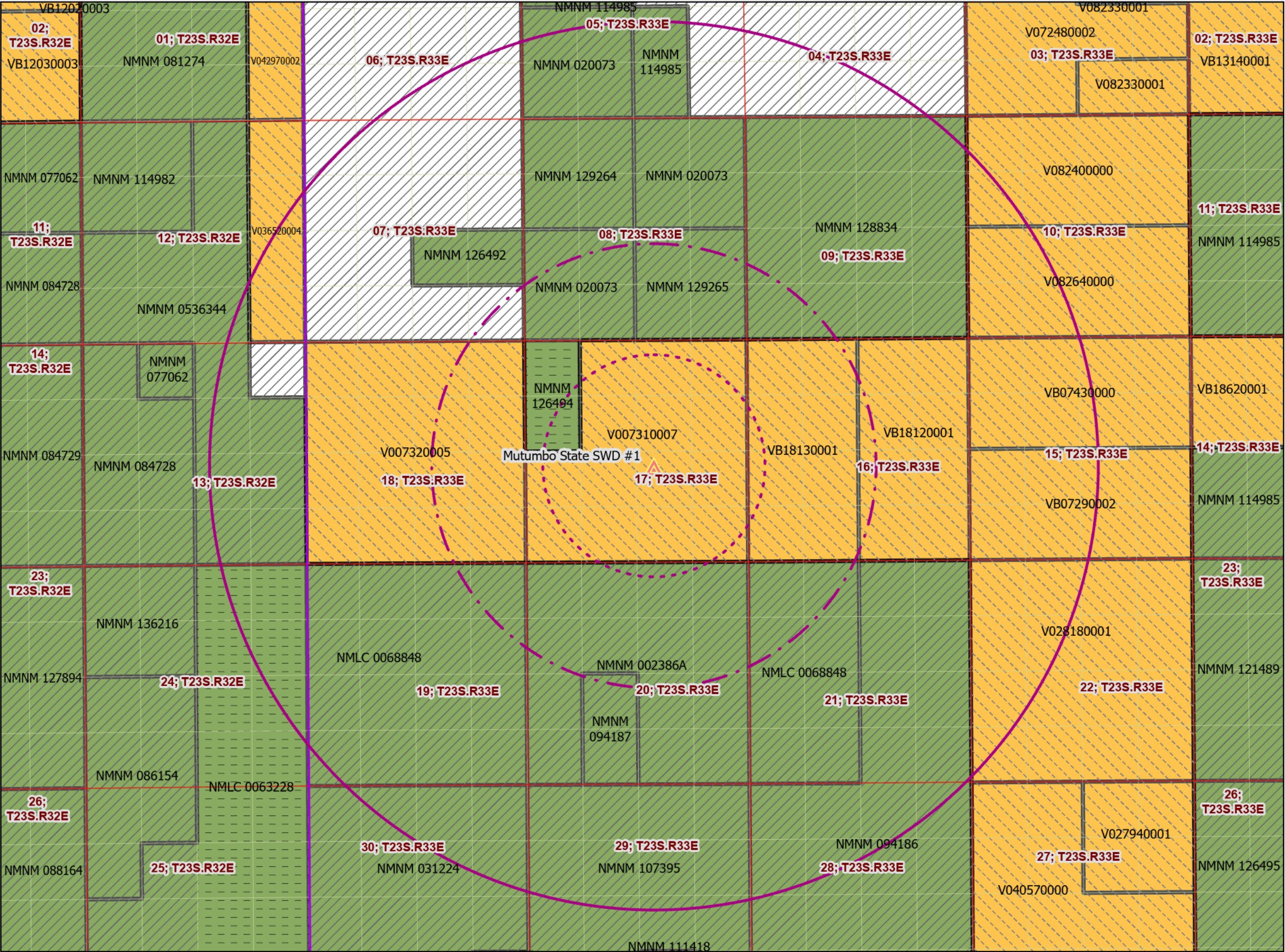
Oil, New

Salt Water Injection, Active

Salt Water Injection, New



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)	Plate 1b
	AWR Disposal, LLC Mutumbo State SWD #1	July 2019



 SWD

Distance (miles)

 0.5

 1

 2

Oil and Gas Leases

 SLO Leases

 BLM Leases

Mineral Ownership (BLM Dataset)

 All minerals are owned by the BLM (U.S.)

 No minerals are owned by the BLM (U.S.)

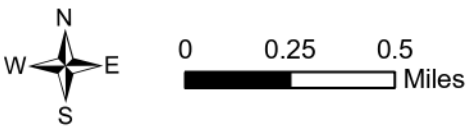
 Other minerals are owned by the BLM (U.S.)

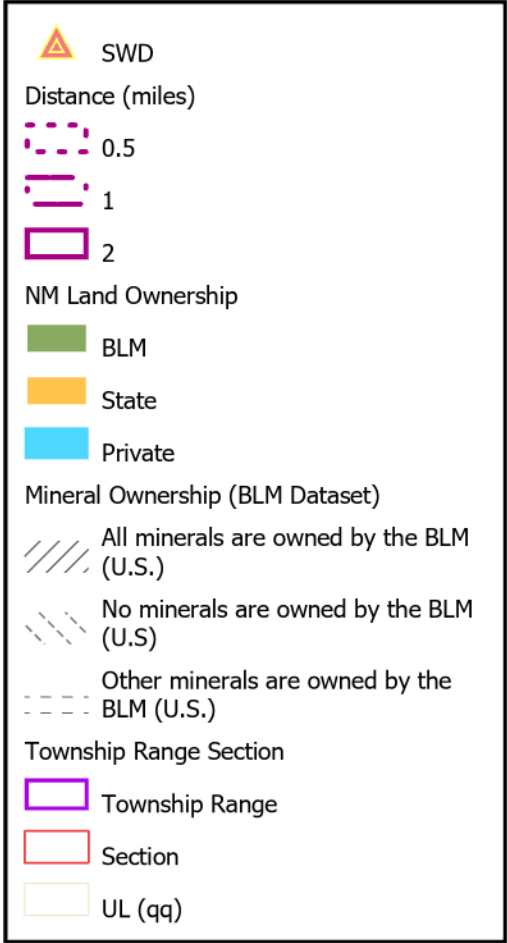
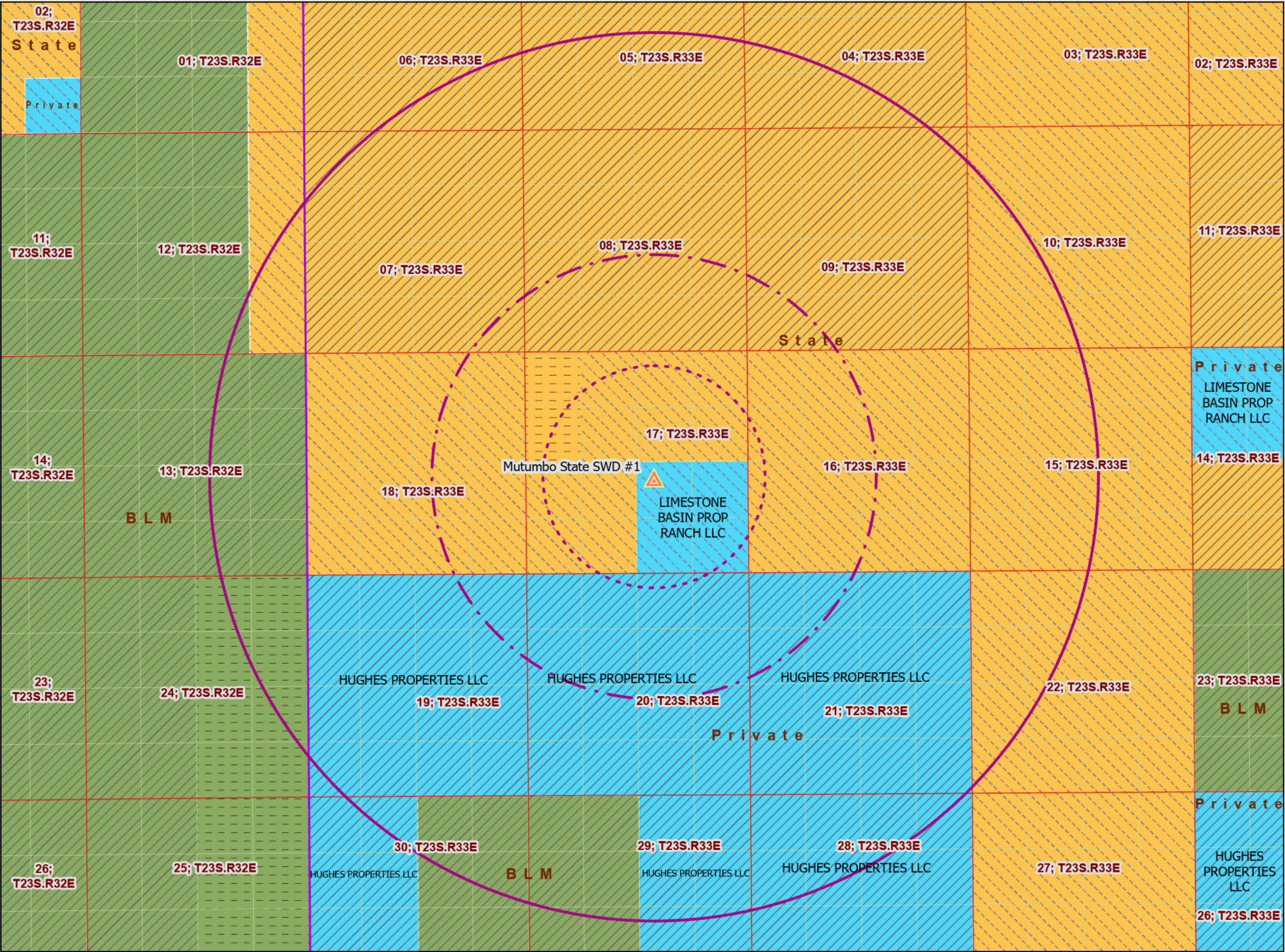
Township Range Section

 Township Range

 Section

 UL (qq)





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Albuquerque, NM 87104
Ph: 505.266.5004

Surface and Mineral Ownership
within 2-Miles
AWR Disposal, LLC
Mutumbo State SWD #1

Plate 2b
July 2019

Table 1
NM Oil and Gas Wells within 2 Miles

API	OGRID	OGRID Name	Status	Well Type	Well Name	UL-S-T-R	Total Depth	Associated Pools
30-025-08355	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	P-06-23S-33E	5204	<Null>
30-025-08356	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	4-07-23S-33E	5131	<Null>
30-025-08357	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	4-18-23S-33E	5227	<Null>
30-025-08358	270329	ENDURANCE RESOURCES LLC	P	O	MARSHALL #001	4-19-23S-33E	5237	[14910] CRUZ, DELAWARE
30-025-08359	270329	ENDURANCE RESOURCES LLC	P	S	MARSHALL #002	K-19-23S-33E	5216	[14910] CRUZ, DELAWARE; [96100] SWD, DELAWARE
30-025-08360	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #003	N-19-23S-33E	5324	<Null>
30-025-08361	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #004	3-19-23S-33E	5230	[14910] CRUZ, DELAWARE
30-025-20153	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	I-24-23S-32E	5168	[14910] CRUZ, DELAWARE
30-025-20424	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	P-20-23S-33E	5344	<Null>
30-025-20804	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	M-17-23S-33E	5415	<Null>
30-025-21397	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	B-18-23S-33E	5241	<Null>
30-025-24893	229137	COG OPERATING LLC	P	G	BRINNINSTOOL UNIT #001	G-20-23S-33E	15950	[14865] CRUZ, BONE SPRING; [72880] BRINNINSTOOL, MORROW (GAS)
30-025-25000	270329	ENDURANCE RESOURCES LLC	P	O	MARSHALL #005	F-19-23S-33E	5180	[14910] CRUZ, DELAWARE
30-025-25151	270329	ENDURANCE RESOURCES LLC	P	O	MARSHALL #006	B-19-23S-33E	5250	[14910] CRUZ, DELAWARE
30-025-25201	270329	ENDURANCE RESOURCES LLC	P	O	MARSHALL #007	C-19-23S-33E	5235	[14910] CRUZ, DELAWARE
30-025-25202	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #008	G-19-23S-33E	0	<Null>
30-025-25518	229137	COG OPERATING LLC	A	S	BEBIDAS 16 STATE SWD #001	L-16-23S-33E	15950	[14865] CRUZ, BONE SPRING; [96100] SWD, DELAWARE
30-025-25553	229137	COG OPERATING LLC	A	G	BRINNINSTOOL UNIT #002	F-21-23S-33E	15800	[72880] BRINNINSTOOL, MORROW (GAS)
30-025-25642	270329	ENDURANCE RESOURCES LLC	P	O	MARSHALL #008	3-19-23S-33E	5300	[14910] CRUZ, DELAWARE
30-025-26034	214263	PRE-ONGARD WELL OPERATOR	P	G	PRE-ONGARD WELL #003	O-19-23S-33E	15760	[72880] BRINNINSTOOL, MORROW (GAS)
30-025-28005	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #004	J-21-23S-33E	0	<Null>
30-025-28223	229137	COG OPERATING LLC	A	O	NEW MEXICO DL STATE #001	I-18-23S-33E	9030	[14910] CRUZ, DELAWARE; [66253] LEA UNDESIGNATED, GROUP 6
30-025-28272	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	F-08-23S-33E	5295	<Null>
30-025-28579	214	ADAMS OIL & GAS PRODUCERS	P	O	FEDERAL #001	E-17-23S-33E	5300	[14910] CRUZ, DELAWARE
30-025-28607	229137	COG OPERATING LLC	A	O	NEW MEXICO DL STATE #002	O-18-23S-33E	5428	[14910] CRUZ, DELAWARE
30-025-28608	270329	ENDURANCE RESOURCES LLC	P	O	NEW MEXICO DL STATE #003	H-18-23S-33E	5301	[14910] CRUZ, DELAWARE
30-025-28609	229137	COG OPERATING LLC	A	O	NEW MEXICO DL STATE #004	N-18-23S-33E	5312	[14910] CRUZ, DELAWARE
30-025-28610	270329	ENDURANCE RESOURCES LLC	P	O	NEW MEXICO DL STATE #005	J-18-23S-33E	5320	[14910] CRUZ, DELAWARE
30-025-28659	270329	ENDURANCE RESOURCES LLC	P	O	NEW MEXICO DL STATE #006	P-18-23S-33E	5275	[14910] CRUZ, DELAWARE
30-025-28667	214	ADAMS OIL & GAS PRODUCERS	P	O	FEDERAL #002	D-17-23S-33E	5300	[14910] CRUZ, DELAWARE
30-025-28680	229137	COG OPERATING LLC	A	O	NEW MEXICO EF STATE #001	L-17-23S-33E	5253	[14910] CRUZ, DELAWARE
30-025-28681	270329	ENDURANCE RESOURCES LLC	P	O	NEW MEXICO DL STATE #007	A-18-23S-33E	5251	[14910] CRUZ, DELAWARE
30-025-28686	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #008	G-18-23S-33E	0	<Null>
30-025-28696	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #002	C-17-23S-33E	0	<Null>
30-025-28697	229137	COG OPERATING LLC	H	I	NEW MEXICO EF STATE #003	M-17-23S-33E	5407	[14910] CRUZ, DELAWARE
30-025-28698	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #004	F-17-23S-33E	0	<Null>
30-025-28927	215099	CIMAREX ENERGY CO.	A	O	PRONGHORN AAP FEDERAL #001	M-08-23S-33E	5370	[14910] CRUZ, DELAWARE
30-025-29230	214263	PRE-ONGARD WELL OPERATOR	C	O	PRE-ONGARD WELL #001	C-08-23S-33E	0	<Null>
30-025-29321	214263	PRE-ONGARD WELL OPERATOR	P	O	PRE-ONGARD WELL #001	E-08-23S-33E	5310	<Null>
30-025-33424	3474	C W TRAINER	P	O	THISTLE UNIT #002	E-28-23S-33E	15850	[96689] BRINNINSTOOL, WOLFCAMP, WEST; [96838] DRY AND ABANDONED
30-025-34076	20305	DEVON SFS OPERATING INC	C	O	THISTLE UNIT #003	G-21-23S-33E	0	<Null>
30-025-36931	17891	POGO PRODUCING CO	C	O	FOXGLOVE 30 FEDERAL #001	H-30-23S-33E	0	<Null>
30-025-40010	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #018H	C-28-23S-33E	8942	[96193] BRINNINSTOOL, DELAWARE
30-025-40057	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #019C	B-28-23S-33E	0	[96193] BRINNINSTOOL, DELAWARE
30-025-40136	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #025C	A-21-23S-33E	0	[96193] BRINNINSTOOL, DELAWARE
30-025-40173	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	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	A	O	TAIPAN 10 STATE COM #001H	D-15-23S-33E	11220	[7320] BRINNINSTOOL, BONE SPRING; [14865] CRUZ, BONE SPRING; [96724] CRUZ, DELAWARE, NORTHEAST
30-025-40854	217955	COG PRODUCTION, LLC	A	O	BEBIDAS STATE #001H	M-16-23S-33E	11068	[14865] CRUZ, BONE SPRING
30-025-40855	217955	COG PRODUCTION, LLC	A	O	BEBIDAS STATE #002H	N-16-23S-33E	11175	[14865] CRUZ, BONE SPRING
30-025-40856	217955	COG PRODUCTION, LLC	A	O	BEBIDAS STATE #003H	O-16-23S-33E	10827	[14865] CRUZ, BONE SPRING
30-025-40857	217955	COG PRODUCTION, LLC	A	O	BEBIDAS STATE #004H	P-16-23S-33E	11202	[14865] CRUZ, BONE SPRING
30-025-41147	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #030H	D-28-23S-33E	9684	[59900] TRIPLE X, BONE SPRING; [96193] BRINNINSTOOL, DELAWARE
30-025-41329	229137	COG OPERATING LLC	A	O	JAZZMASTER 17 STATE #004H	A-17-23S-33E	11081	[14865] CRUZ, BONE SPRING
30-025-41371	229137	COG OPERATING LLC	A	O	BRINNINSTOOL UNIT #003H	O-20-23S-33E	11044	[14865] CRUZ, BONE SPRING
30-025-41425	270329	ENDURANCE RESOURCES LLC	C	O	JAZZMASTER 17 STATE #002C	C-17-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-41426	229137	COG OPERATING LLC	A	O	JAZZMASTER 17 STATE #003H	B-17-23S-33E	10973	[14865] CRUZ, BONE SPRING
30-025-41427	270329	ENDURANCE RESOURCES LLC	C	O	JAGUAR 18 STATE #001C	1-18-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-41428	229137	COG OPERATING LLC	A	O	JAGUAR 18 STATE #002H	N-18-23S-33E	12162	[14865] CRUZ, BONE SPRING

Table 1
NM Oil and Gas Wells within 2 Miles

API	OGRID	OGRID Name	Status	Well Type	Well Name	UL-S-T-R	Total Depth	Associated Pools
30-025-41429	229137	COG OPERATING LLC	A	O	JAGUAR 18 STATE #003H	O-18-23S-33E	9775	[14865] CRUZ, BONE SPRING
30-025-41430	270329	ENDURANCE RESOURCES LLC	C	O	JAGUAR 18 STATE #004C	A-18-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-41794	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #053H	B-28-23S-33E	11211	[59900] TRIPLE X, BONE SPRING
30-025-41795	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #054H	A-28-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-41796	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #059H	B-28-23S-33E	11164	[59900] TRIPLE X, BONE SPRING
30-025-41797	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #060H	A-28-23S-33E	11083	[59900] TRIPLE X, BONE SPRING
30-025-41803	229137	COG OPERATING LLC	A	O	BRINNINSTOOL UNIT #004H	P-20-23S-33E	11027	[14865] CRUZ, BONE SPRING
30-025-41819	229137	COG OPERATING LLC	C	O	BRINNINSTOOL UNIT #006C	N-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-41827	16696	OXY USA INC	A	O	FOXGLOVE 29 FEDERAL #004H	D-29-23S-33E	11138	[59900] TRIPLE X, BONE SPRING
30-025-41828	16696	OXY USA INC	A	O	FOXGLOVE 29 FEDERAL #005H	C-29-23S-33E	11154	[59900] TRIPLE X, BONE SPRING
30-025-41850	16696	OXY USA INC	A	O	FOXGLOVE 29 FEDERAL #006H	B-29-23S-33E	11150	[59900] TRIPLE X, BONE SPRING
30-025-41851	16696	OXY USA INC	A	O	FOXGLOVE 29 FEDERAL #007H	A-29-23S-33E	11159	[59900] TRIPLE X, BONE SPRING
30-025-41860	229137	COG OPERATING LLC	C	O	BRINNINSTOOL UNIT #005C	D-21-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-41896	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #051H	D-28-23S-33E	11189	[59900] TRIPLE X, BONE SPRING
30-025-41897	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #052H	C-28-23S-33E	11229	[59900] TRIPLE X, BONE SPRING
30-025-41913	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	HORNED VIPER 20 FEDERAL COM #001H	N-20-23S-33E	11042	[14865] CRUZ, BONE SPRING
30-025-41914	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	HORNED VIPER 20 FEDERAL COM #002H	M-20-23S-33E	11044	[14865] CRUZ, BONE SPRING
30-025-42277	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	TAIPAN 10 STATE COM #008H	D-15-23S-33E	9296	[96724] CRUZ, DELAWARE, NORTHEAST
30-025-42422	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	BLACK MAMBA 15 STATE COM #006C	D-15-23S-33E	0	[96724] CRUZ, DELAWARE, NORTHEAST
30-025-42474	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	NORTH THISTLE 15 10 STATE COM #001C	M-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42479	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	NORTH THISTLE 15 10 STATE COM #002C	M-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42570	229137	COG OPERATING LLC	N	O	CHIVO 9 FEDERAL #002H	N-09-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-42679	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #094H	D-22-23S-33E	10638	[59900] TRIPLE X, BONE SPRING
30-025-42680	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #109H	D-22-23S-33E	10101	[59900] TRIPLE X, BONE SPRING
30-025-42681	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #124H	D-22-23S-33E	9777	[59900] TRIPLE X, BONE SPRING
30-025-42760	308339	OWL SWD OPERATING, LLC	C	S	BRININSTOOL SWD #003C	4-19-23S-33E	0	<Null>
30-025-42784	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #096C	A-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43024	229137	COG OPERATING LLC	C	O	JAGUAR 18 STATE #503C	O-18-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-43311	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #110H	C-22-23S-33E	9736	[59900] TRIPLE X, BONE SPRING
30-025-43315	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #114H	C-22-23S-33E	9758	[59900] TRIPLE X, BONE SPRING
30-025-43316	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #115	B-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43317	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #116C	B-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43381	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #107H	B-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43382	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #122H	B-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43437	229137	COG OPERATING LLC	N	O	JAGUAR 18 STATE #001H	1-18-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-43438	229137	COG OPERATING LLC	N	O	JAGUAR 18 STATE #004H	A-18-23S-33E	0	[14865] CRUZ, BONE SPRING
30-025-43598	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #154H	C-28-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43709	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #105H	A-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43710	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #119H	A-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43727	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #108H	A-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43732	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #121H	A-21-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-43733	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #158H	C-28-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-44000	308339	OWL SWD OPERATING, LLC	N	S	BRININSTOOL SWD #003	4-19-23S-33E	0	[96101] SWD, DEVONIAN
30-025-44066	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #099C	C-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-44068	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	O	THISTLE UNIT #161C	C-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-44069	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #133H	C-22-23S-33E	10088	[59900] TRIPLE X, BONE SPRING
30-025-44070	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	THISTLE UNIT #160	C-22-23S-33E	0	[59900] TRIPLE X, BONE SPRING
30-025-44079	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #086H	C-22-23S-33E	10649	[59900] TRIPLE X, BONE SPRING
30-025-44080	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #125H	C-22-23S-33E	10073	[59900] TRIPLE X, BONE SPRING
30-025-44081	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	O	THISTLE UNIT #142	D-22-23S-33E	1465	[59900] TRIPLE X, BONE SPRING
30-025-44416	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #099H	C-22-23S-33E	10670	[59900] TRIPLE X, BONE SPRING
30-025-44419	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	O	THISTLE UNIT #115H	C-22-23S-33E	9744	[59900] TRIPLE X, BONE SPRING
30-025-45392	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	NORTH THISTLE 15 10 STATE COM #001H	M-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45393	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	NORTH THISTLE 15 10 STATE COM #002H	M-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45394	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	NORTH THISTLE 15 10 STATE COM #003H	N-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45395	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	O	NORTH THISTLE 15 10 STATE COM #004H	O-15-23S-33E	0	[7320] BRINNINSTOOL, BONE SPRING
30-025-45605	374146	Delaware Water Management Company, LLC	N	S	R WALLMAN STATE SWD #001	4-07-23S-33E	0	[96101] SWD, DEVONIAN

Table 2a
BLM Oil and Gas Leases within 1-Mile

Lease Number	Name	Townshipp	Range	Section	Unit Letter
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	21	C
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	21	F
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	19	H
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	19	A
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	21	E
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	19	B
NMLC 0068848	CONOCOPHILLIPS CO	23S	33E	21	D
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	J
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	L
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	H
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	I
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	A
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	B
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	G
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	F
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	D
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	E
NMNM 002386A	DEVON ENERGY PROD CO LP	23S	33E	20	C
NMNM 020073	EOG RESOURCES INC	23S	33E	08	L
NMNM 020073	EOG RESOURCES INC	23S	33E	08	N
NMNM 020073	EOG RESOURCES INC	23S	33E	08	K
NMNM 020073	EOG RESOURCES INC	23S	33E	08	M
NMNM 094187	DEVON ENERGY PROD CO LP	23S	33E	20	K
NMNM 126494	EOG Y RESOURCES INC	23S	33E	17	D
NMNM 126494	EOG Y RESOURCES INC	23S	33E	17	E
NMNM 128834	COG OPERATING LLC	23S	33E	09	N
NMNM 128834	COG OPERATING LLC	23S	33E	09	M
NMNM 128834	COG OPERATING LLC	23S	33E	09	L
NMNM 129265	COG OPERATING LLC	23S	33E	08	J
NMNM 129265	COG OPERATING LLC	23S	33E	08	I
NMNM 129265	COG OPERATING LLC	23S	33E	08	P
NMNM 129265	COG OPERATING LLC	23S	33E	08	O

Table 2b
State Leases within 1-Mile of the SWD

Lease Number	Ogrid	Ogrid Name	Township	Range	Section	Unit Letter
V007310007	229137	COG OPERATING LLC	23S	33E	17	A
V007310007	229137	COG OPERATING LLC	23S	33E	17	B
V007310007	229137	COG OPERATING LLC	23S	33E	17	C
V007310007	229137	COG OPERATING LLC	23S	33E	17	F
V007310007	229137	COG OPERATING LLC	23S	33E	17	G
V007310007	229137	COG OPERATING LLC	23S	33E	17	H
V007310007	229137	COG OPERATING LLC	23S	33E	17	I
V007310007	229137	COG OPERATING LLC	23S	33E	17	J
V007310007	229137	COG OPERATING LLC	23S	33E	17	K
V007310007	229137	COG OPERATING LLC	23S	33E	17	L
V007310007	229137	COG OPERATING LLC	23S	33E	17	M
V007310007	229137	COG OPERATING LLC	23S	33E	17	N
V007310007	229137	COG OPERATING LLC	23S	33E	17	O
V007310007	229137	COG OPERATING LLC	23S	33E	17	P
V007320005	229137	COG OPERATING LLC	23S	33E	18	A
V007320005	229137	COG OPERATING LLC	23S	33E	18	B
V007320005	229137	COG OPERATING LLC	23S	33E	18	G
V007320005	229137	COG OPERATING LLC	23S	33E	18	H
V007320005	229137	COG OPERATING LLC	23S	33E	18	I
V007320005	229137	COG OPERATING LLC	23S	33E	18	J
V007320005	229137	COG OPERATING LLC	23S	33E	18	O
V007320005	229137	COG OPERATING LLC	23S	33E	18	P
VB18120001	296438	COG ACREAGE LP	23S	33E	16	B
VB18120001	296438	COG ACREAGE LP	23S	33E	16	G
VB18120001	296438	COG ACREAGE LP	23S	33E	16	J
VB18120001	296438	COG ACREAGE LP	23S	33E	16	O
VB18130001	296438	COG ACREAGE LP	23S	33E	16	C
VB18130001	296438	COG ACREAGE LP	23S	33E	16	D
VB18130001	296438	COG ACREAGE LP	23S	33E	16	E
VB18130001	296438	COG ACREAGE LP	23S	33E	16	F
VB18130001	296438	COG ACREAGE LP	23S	33E	16	K
VB18130001	296438	COG ACREAGE LP	23S	33E	16	L
VB18130001	296438	COG ACREAGE LP	23S	33E	16	M
VB18130001	296438	COG ACREAGE LP	23S	33E	16	N

Table 2c
Surface Owners within 1-Mile of the SWD

Township	Range	Section	Unit Letter	UPC	Name	Address	City	State	Zip
23S	33E	07	P	4192134262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	I	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	J	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	K	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	L	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	M	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	N	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	O	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	08	P	4193134266265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	09	L	4194134265265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	09	M	4194134265265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	09	N	4194134265265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	B	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	C	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	D	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	E	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	F	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	G	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	J	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	K	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	L	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	M	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	N	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	16	O	4194135265266	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	A	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	B	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	C	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	D	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	E	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	F	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	G	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	H	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	I	4193135399396	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE	MIDLAND	TX	79705
23S	33E	17	J	4193135399396	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE	MIDLAND	TX	79705
23S	33E	17	K	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	L	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	M	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	N	4193135221221	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	17	O	4193135399396	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE	MIDLAND	TX	79705
23S	33E	17	P	4193135399396	LIMESTONE BASIN PROP RANCH LLC	18 DESTA DRIVE	MIDLAND	TX	79705
23S	33E	18	A	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	B	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	G	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	H	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	I	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	J	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	O	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	18	P	4192135262265	New Mexico State	310 Old Santa Fe Trail	Santa Fe	NM	87501
23S	33E	19	A	4192136262265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	19	B	4192136262265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	19	H	4192136262265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221

Table 2c
Surface Owners within 1-Mile of the SWD

Township	Range	Section	Unit Letter	UPC	Name	Address	City	State	Zip
23S	33E	20	A	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	B	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	C	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	D	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	E	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	F	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	G	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	H	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	I	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	J	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	K	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	20	L	4193136266265	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	21	C	4194136265266	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	21	D	4194136265266	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	21	E	4194136265266	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221
23S	33E	21	F	4194136265266	HUGHES PROPERTIES LLC	PO BOX 5097	CARLSBAD	NM	88221

Township	Range	Section	Unit Letter	Mineral Owner	Description
23S	33E	07	P	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	I	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	J	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	K	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	M	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	N	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	O	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	P	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	M	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	N	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	16	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	C	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	D	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	E	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	F	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	K	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	L	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	M	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	N	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	A	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	C	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	D	BLM (USA)	Other minerals are owned by the BLM (U.S.)
23S	33E	17	E	BLM (USA)	Other minerals are owned by the BLM (U.S.)
23S	33E	17	F	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	H	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	I	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	K	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	L	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	M	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	N	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	P	State (NM)	No minerals are owned by the BLM (U.S.)

Township	Range	Section	Unit Letter	Mineral Owner	Description
23S	33E	18	A	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	H	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	I	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	P	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	19	A	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	19	B	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	19	H	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	A	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	B	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	C	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	D	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	E	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	F	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	G	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	H	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	I	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	J	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	K	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	C	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	D	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	E	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	F	BLM (USA)	All minerals are owned by the BLM (U.S.)

Township	Range	Section	Unit Letter	Mineral Owner	Description
23S	33E	07	P	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	I	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	J	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	K	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	M	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	N	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	O	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	08	P	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	M	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	09	N	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	16	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	C	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	D	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	E	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	F	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	K	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	L	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	M	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	N	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	16	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	A	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	C	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	D	BLM (USA)	Other minerals are owned by the BLM (U.S.)
23S	33E	17	E	BLM (USA)	Other minerals are owned by the BLM (U.S.)
23S	33E	17	F	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	H	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	I	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	K	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	L	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	M	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	N	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	17	P	State (NM)	No minerals are owned by the BLM (U.S.)

Township	Range	Section	Unit Letter	Mineral Owner	Description
23S	33E	18	A	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	B	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	G	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	H	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	I	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	J	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	O	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	18	P	State (NM)	No minerals are owned by the BLM (U.S.)
23S	33E	19	A	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	19	B	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	19	H	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	A	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	B	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	C	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	D	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	E	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	F	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	G	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	H	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	I	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	J	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	K	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	20	L	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	C	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	D	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	E	BLM (USA)	All minerals are owned by the BLM (U.S.)
23S	33E	21	F	BLM (USA)	All minerals are owned by the BLM (U.S.)