

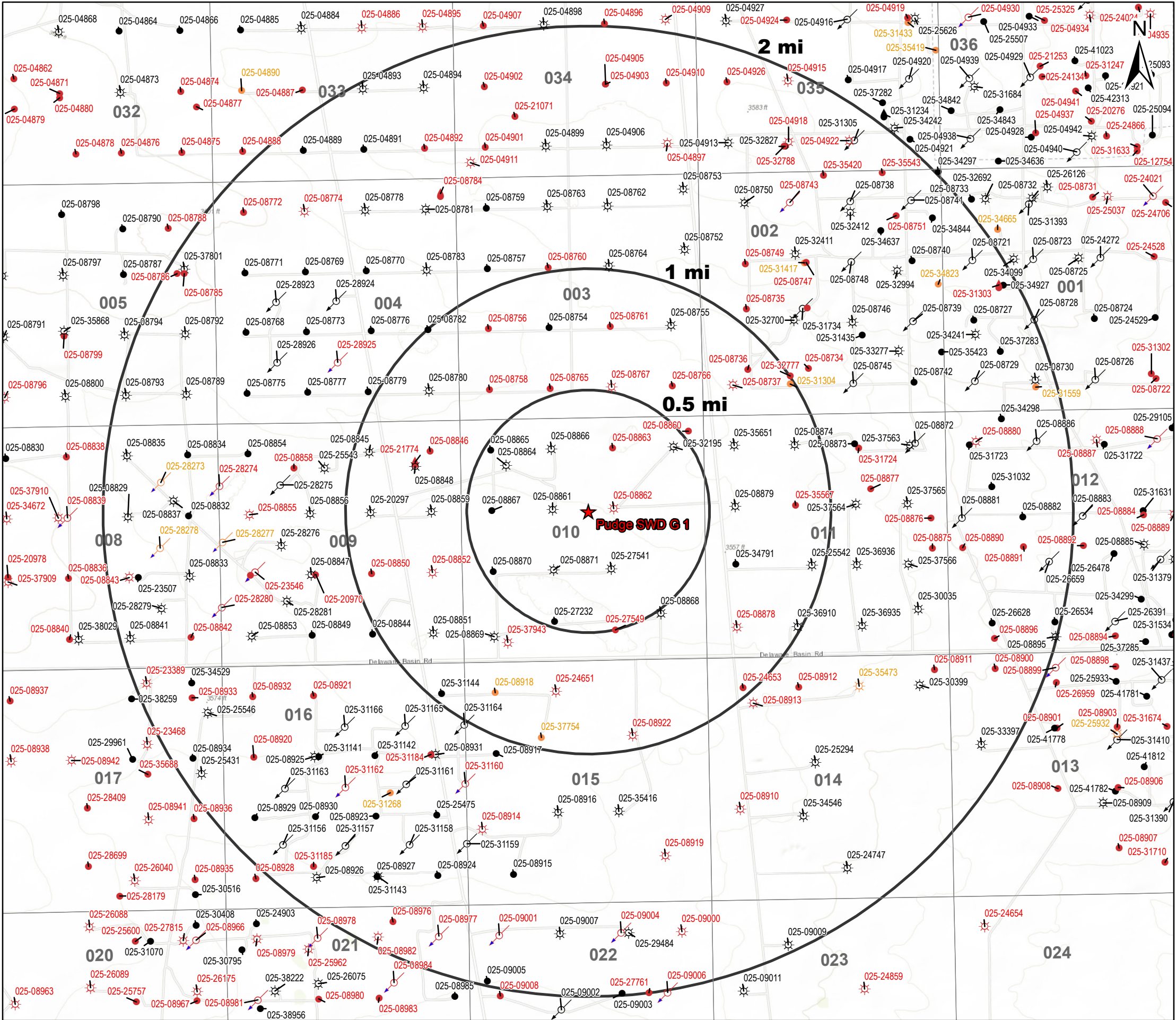
Application

Part *IV*

Attachment 2

Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1/2-mile Well Detail List
- Potash Lease Map



Legend

- ★ Proposed SWD
- ☼ Gas, Active (110)
- ☼ Gas, Plugged (50)
- ☼ Gas, Temporarily Abandoned (2)
- ↻ Injection, Active (45)
- ↻ Injection, Plugged (20)
- ↻ Injection, Temporarily Abandoned (3)
- Oil, Active (106)
- Oil, Plugged (124)
- Oil, Temporarily Abandoned (11)
- 💧 Water, Active (1)
- 💧 Water, Plugged (3)

O&G Wells Area of Review

Pudge SWD G 1
Lea County, New Mexico

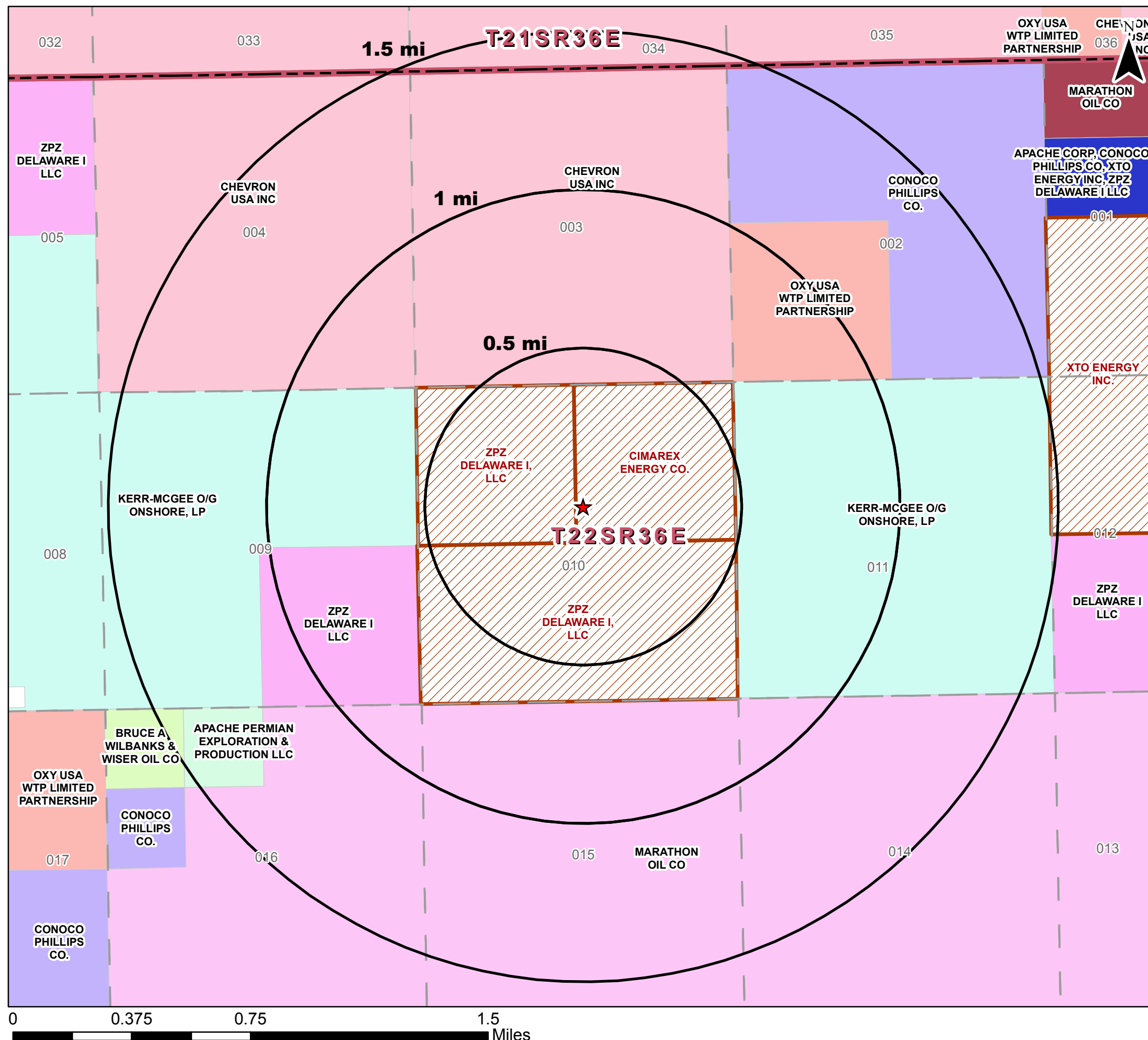
Proj Mgr:
Dan Arthur

May 29, 2019

Mapped by:
Ben Bockelmann

Prepared by:

ALLCONSULTING



Legend

- ★ Proposed SWD
- ▨ Private Mineral Leases
- BLM Mineral Leases**
 - APACHE CORP, CONOCO PHILLIPS CO, XTO ENERGY INC, ZPZ DELAWARE I LLC
 - MARATHON OIL CO
- NMSLO Mineral Leases**
 - APACHE PERMIAN EXPLORATION & PRODUCTION LLC
 - BRUCE A WILBANKS & WISER OIL CO
 - CHEVRON USA INC
 - CONOCO PHILLIPS CO.
 - KERR-MCGEE O/G ONSHORE, LP
 - MARATHON OIL CO
 - OXY USA WTP LIMITED PARTNERSHIP
 - ZPZ DELAWARE I LLC

Mineral Lease Area of Review

Pudge SWD G 1 Lea County, New Mexico

Proj Mgr:
Nate Alleman

June 12, 2019

Mapped by:
Ben Bockelmann

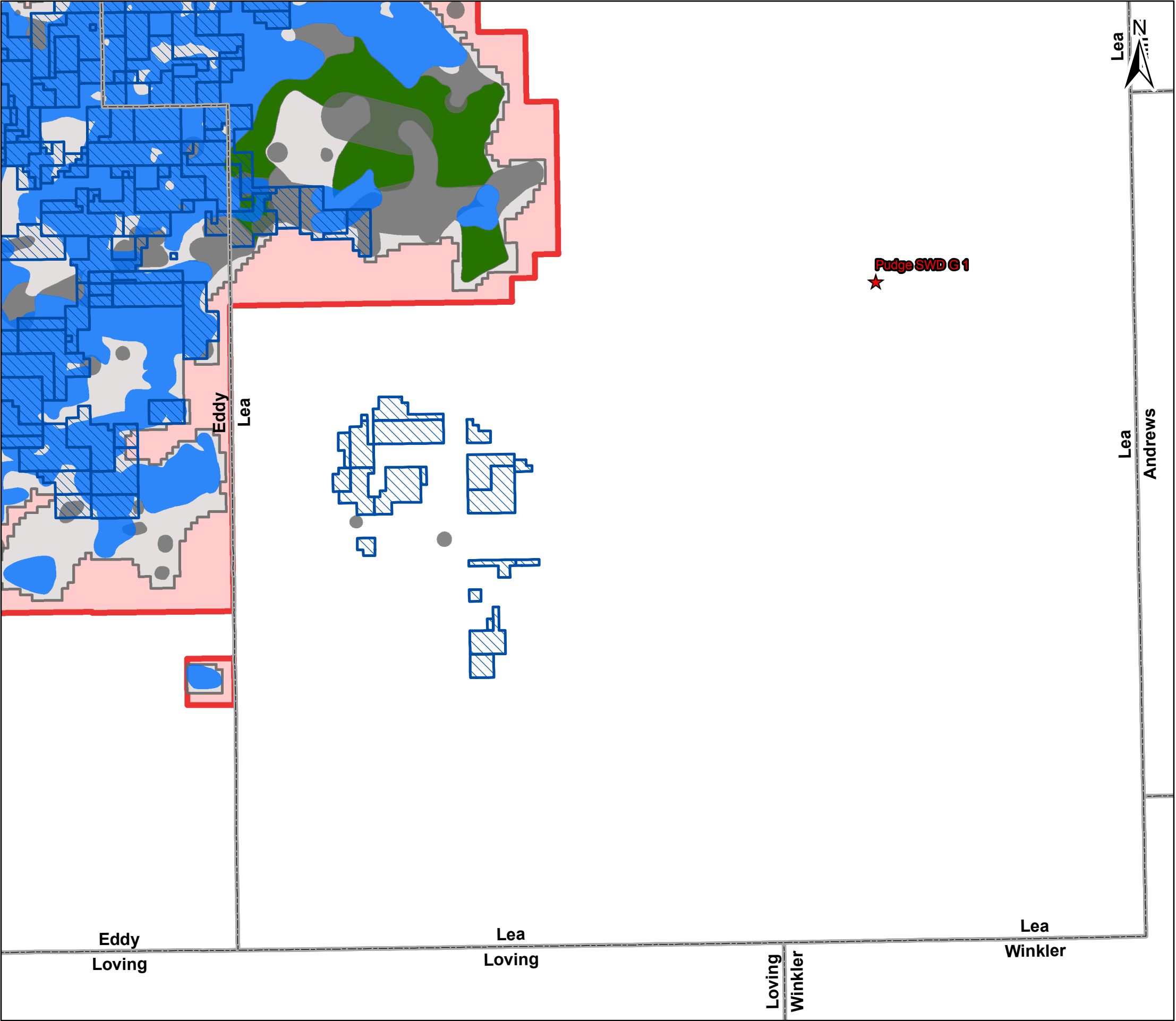
Prepared by:

ALLCONSULTING

AOR Tabulation for Pudge SWD G 1 (Top of Injection Interval: 5,750')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
JAMES MATTIE #004	30-025-32195	G	SPECIAL ENERGY CORP	2/24/1994	A-10-22S-36E	3750	No
MATTIE JAMES #003	30-025-08863	Plugged	BURLINGTON RESOURCES OIL & GAS CO	7/27/1961	B-10-22S-36E	Plugged (3904)	No
H S RECORD WN #005	30-025-27232	O	APACHE CORPORATION	1/31/1981	N-10-22S-36E	3921	No
H S RECORD WN #006	30-025-27541	G	APACHE CORPORATION	9/19/1981	J-10-22S-36E	3959	No
H S RECORD WN #003	30-025-08870	O	APACHE CORPORATION	6/28/1993	L-10-22S-36E	3804	No
D D HARRINGTON WN #003	30-025-08866	G	APACHE CORPORATION	3/3/1960	C-10-22S-36E	3813	No
D D HARRINGTON WN #002	30-025-08865	O	APACHE CORPORATION	7/22/1958	D-10-22S-36E	3832	No
H S RECORD WN #004	30-025-08871	G	APACHE CORPORATION	6/11/1962	K-10-22S-36E	3798	No
D D HARRINGTON WN #005	30-025-08861	G	APACHE CORPORATION	5/31/1962	F-10-22S-36E	3808	No
D D HARRINGTON WN #001	30-025-08864	G	APACHE CORPORATION	8/2/1927	D-10-22S-36E	3447	No
D D HARRINGTON WN #004	30-025-08867	O	APACHE CORPORATION	4/24/1962	E-10-22S-36E	3785	No
JAMES MATTIE #001	30-025-08862	Plugged	CIMAREX ENERGY CO. OF COLORADO	3/11/1949	G-10-22S-36E	Plugged (3495)	No

Notes: No wells within the 1/2-mile AOR penetrate the injection interval.



Legend

- ★ Proposed SWD
- Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- Ore Type - Inferred
- KPLA
- SOPA

**Potash Leases
Area of Review**

Pudge SWD G 1
Lea County, New Mexico

Proj Mgr:
Dan Arthur

May 30, 2019

Mapped by:
Ben Bockelmann

Prepared by:



Attachment 3

Source Water Analyses

PRODUCED WATER FROM BONE SPRING, DELAWARE, DEVONIAN, WOLFCAMP

API	SECTION	TOWNSHIP	RANGE	FORMATION	tds mgL	chloride mgL	bicarbonate mgL	sulfate mgL
3002502424	11	20S	34E	BONE SPRING	29436	16720	634	1142
3002502427	12	20S	34E	BONE SPRING	15429			
3002502427	12	20S	34E	BONE SPRING	180701	108300	1016	670
3002502429	12	20S	34E	BONE SPRING	202606	118100	5196	992
3002502429	12	20S	34E	BONE SPRING	121800			
3002502431	12	20S	34E	BONE SPRING	147229	89640	108	1038
3002531696	2	20S	34E	DELAWARE	152064	102148	404	691
3002532105	2	20S	34E	DELAWARE	296822	215237	143	294
3002532466	2	20S	34E	DELAWARE	340838	245270	229	147
3002502427	12	20S	34E	DELAWARE	214787	132700	208	1816
3002502431	12	20S	34E	DEVONIAN	33414	18570	227	1961
3002502432	13	20S	34E	DEVONIAN	45778	26440	1145	729
3002501912	16	16S	34E	WOLFCAMP	164004	102500	4204	1249
3002501922	20	16S	34E	WOLFCAMP	104541	64290	280	541
3002501922	20	16S	34E	WOLFCAMP	104033	64080	268	515
3002501922	20	16S	34E	WOLFCAMP	105175	65570	207	192
3002501925	21	16S	34E	WOLFCAMP	86355	51800	610	665
3002501928	21	16S	34E	WOLFCAMP	119102	73300	227	454
3002501928	21	16S	34E	WOLFCAMP	35422	19170	979	1949
3002501930	22	16S	34E	WOLFCAMP	30015	14800	750	3300
3002501931	22	16S	34E	WOLFCAMP	87680	53000	301	681
3002501933	28	16S	34E	WOLFCAMP	59960	35100	515	1500
3002501933	28	16S	34E	WOLFCAMP	60309	35350	586	1297
3002501940	30	16S	34E	WOLFCAMP	82422	49890	361	787
3002501944	30	16S	34E	WOLFCAMP	83960	51410	418	641
3002502022	27	16S	34E	WOLFCAMP	85457	51020	544	1201
3001542895	2	23S	31E	WOLFCAMP	119472	73173		1036

EXHIBIT F