

APPENDIX C

WATER WELL RECORDS

GROUNDWATER HYDROLOGY IN THE VICINITY OF THE PROPOSED INJECTION WELL

Groundwater in the area of the well site is found in shallow, unconfined aquifers hosted by the Quaternary alluvial and aeolian surficial deposits, and the Tertiary Ogallala Formation. Groundwater may also occur in local, confined sandstone beds in the deeper “red beds” of the Triassic Dockum Group.

A review of the New Mexico State Engineer’s database identified 18 water wells within one mile of the Linam AGI #1 and the proposed location for the AGI #2. Data on these water wells are summarized in Table 3 below, and located in Figure 7. All of these wells are completed in very shallow units, at total depths ranging from 60 to 270 feet below ground surface in either the alluvium and/or the Ogallala Aquifer. Due to their distal locations and shallow completions, there are no potential impacts from the Linam AGI #1 and AGI #2 wells.

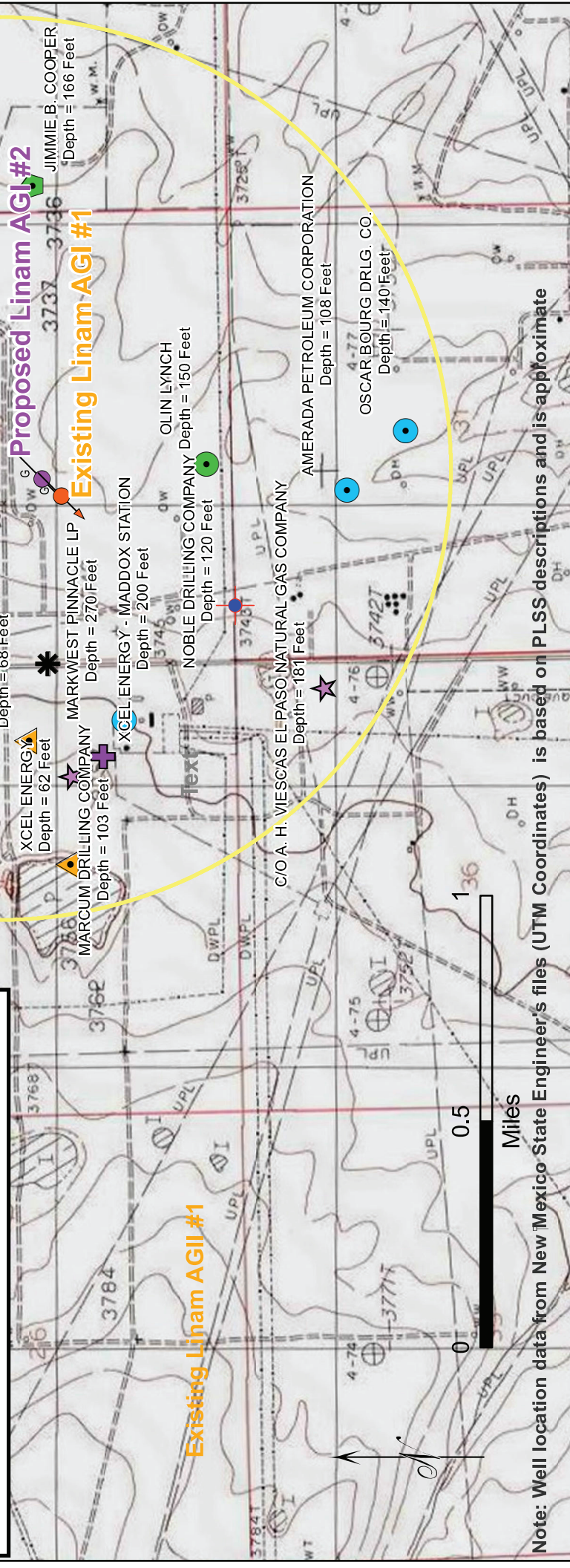
Table 3: Identified Water Wells within One Mile of Proposed Linam AGI #2

Owner	Type	UTME	UTMN	Distance (miles)	DepthWell	DepthWater
XCEL ENERGY	MON	659878	3621567	0.2525	60	50
JAMES L EVANS	IRR	659586	3621580	0.3575	185	70
MARKWEST PINNACLE LP	CPS	659398	3621041	0.38375	270	120
OLIN LYNCH	DOM	660108	3620475	0.44625	150	57
XCEL ENERGY	MON	659118	3621119	0.54938	68	50
NOBLE DRILLING COMPANY	P&A	659606	3620371	0.56125	120	65
MARCUM DRILLING COMPANY	PRO	659196	3620767	0.5625	103	45
SOUTHWESTERN PUBLIC SERVICE CO	EXP	659078	3621289	0.5775	80	60
XCEL ENERGY - MADDOX STATION	SAN	659067	3620842	0.6175	200	63
XCEL ENERGY	MON	659035	3621493	0.63125	60	50
SOUTHWESTERN PUBLIC SERVICE	IND	658994	3620960	0.64125	206	84
JIMMIE B. COOPER	IRR	661101	3621097	0.6925	166	35
AMERADA PETROLEUM CORPORATION	PRO	660016	3619973	0.755	108	35
CONTINENTAL OIL COMPANY	PRO	658779	3621565	0.7975	125	60
C/O A. H. VIESCAS EL PASO NATURAL GAS COMPANY	IND	659309	3620060	0.82125	181	70
XCEL ENERGY	MON	658677	3620972	0.83438	62	50
OSCAR BOURG DRLG. CO.	PRO	660229	3619765	0.89688	140	70
XCEL ENERGY	MON	658752	3622142	0.9825	60	50

Explanation

-  Monitoring
-  Production
-  Industrial
-  Irrigation
-  Domestic
-  Exploratory
-  Sanitary
-  Cathodic Protection
-  Plugged & Abandoned

— One-Mile Radius From Proposed Linam AGI #2



Note: Well location data from New Mexico State Engineer's files (UTM Coordinates) is based on PLSS descriptions and is approximate