

Initial Application Part I

Received 3/11/19

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

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? XXX Yes _____ No

II. OPERATOR: SOLARIS WATER MIDSTREAM, LLC

ADDRESS: 907 TRADEWINDS BLVD., SUITE B, MIDLAND TX 79706

CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes XXX No **pBL2020355391**
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

Klein 6 SWD 1
SWD; Devonian-Silurian

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

SWD-2387

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

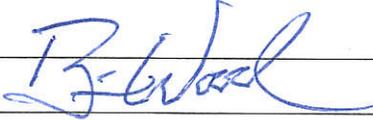
*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: BRIAN WOOD  TITLE: CONSULTANT

SIGNATURE: _____ DATE: MAR. 11, 2019

E-MAIL ADDRESS: brian@permitswest.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered 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.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Tubing Size: 4.5" Lining Material: DUOLINE GLASSBORE

Type of Packer: NICKEL PLATED DOUBLE GRIP RETRIEVABLE

Packer Setting Depth: ≈14624'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? xxx Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DEVONIAN-SILURIAN

3. Name of Field or Pool (if applicable): SWD; DEVONIAN-SILURIAN (97869)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NOT IN OTHER ZONES

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

OVER: QUEEN (4694'), DELAWARE (6994'), BONE SPRING (8240'),
WOLFCAMP (11218'), STRAWN (12265'), & MORROW (12933')

UNDER: NONE

I. Goal is to drill a 16,131' deep commercial saltwater disposal well on private surface. Proposed disposal interval will be 14,674' - 16,031' in the SWD; Devonian-Silurian (97869). See Exhibit A for C-102 and map.

II. Operator: Solaris Water Midstream, LLC [OGRID 371643]
Operator phone number: (432) 203-9020
Operator address: 907 Tradewinds Blvd., Suite B
Midland TX 79706
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: BLM NMNM-0006413
Lease Size: 600.12 acres
Closest Lease Line: 236'
Lease Area: Lots 1-7, SENW, S2NE4, E2SW4, N2SE4, & SWSE Section
6, T. 20 S., R. 35 E.

A. (2) Surface casing (20", 133#, J-55, BTC) will be set at 1762' in a 26" hole and cemented to GL with 4,049 sacks.

First intermediate casing (13.375", 72#, HCL-80, BTC) will be set at 5,821' in a 17.5" hole and cemented to GL with 3,507 sacks

Second intermediate casing (9.875", 62.8#, Q-125) will be set at 12,245' in a 12.25" hole and cemented to GL with 1,931 sacks.

Liner (7.625", 39#, P-110) will be set at 14,674' in an 8.5" hole and cemented to 12,045' (TOL) with 123 sacks.

A 6.5" open hole will be drilled to 16,031'.

- A. (3) Tubing will be CLS 4.5" duoline 20 Glassbore® or its equivalent. Setting depth will be $\approx 14,624'$. (Disposal interval will be $14,674' - 16,031'$.)
- A. (4) A nickel plated double grip retrievable packer will be set at $\approx 14,624'$ (or $\leq 100'$ above the top of the open hole which will be at $14,674'$).
- B. (1) Disposal zone will be the Devonian and Silurian (SWD; Devonian-Silurian (97869) pool). Estimated fracture gradient is ≈ 0.65 psi/foot.
- B. (2) Disposal interval will be open hole from $14,674'$ to $16,031'$.
- B. (3) Well has not been drilled. It will be drilled as a saltwater disposal well.
- B. (4) No perforated intervals are in the well.
- B. (5) Oil and gas zones in a 1-mile area of review and above the Devonian ($14,674'$) are the Queen ($4694'$), Delaware ($6994'$), Bone Spring ($8240'$), Wolfcamp ($11,218'$), Strawn ($12,265'$), and Morrow ($12,933'$). No oil or gas zone is below the Silurian within 1 mile.

Four wells within a mile tested the Devonian, closest of which is $2195'$ south. Only two of the four were successful. Closest successful Devonian well (30-025-02429) is $4326'$ southwest. The Devonian is now isolated below CIBPs capped with cement in both wells (30-025-02429 and 30-025-02428). The latter (30-025-02428) was approved (SWD-1560) as a Devonian; SWD, but never used as an SWD. It is now a Bone Spring oil well.

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit B shows and tabulates all 26 wells (21 oil + 3 P&A + 2 SWD) within a 1-mile radius. Four of the 26 wells penetrated the Devonian. No well penetrated the Silurian. Exhibit C shows all 197 existing wells (131 oil or gas wells + 57 P & A wells + 5 injection or disposal wells + 4 water wells) within a two-mile radius.

All leases within a one-mile or two-mile radius are BLM, fee, or NMSLO. Exhibit D shows and tabulates all the leases within one-mile. Exhibit E shows all lessors within a two-mile radius.

VI. Four Devonian penetrators are within a mile. One is P&A, one was converted to an SWD; Seven Rivers well, and two are now Bone Spring oil wells after initially being Devonian producers. Exhibit F tabulates and illustrates penetrator well construction details. Five SWD wells have been drilled within a 2-mile radius (Exhibit G). Deepest disposal zone of the five was the Brushy Canyon.

- VII. 1. Average injection rate will be $\approx 30,000$ bwpd.
Maximum injection rate will be 40,000 bwpd.
2. System will be open and closed. Water will both be trucked and piped.
3. Average injection pressure will be $\approx 2,500$ psi Maximum injection pressure will be 2,934 psi (= 0.2 psi/foot x 14,674' (top open hole)).
4. Disposal water will be produced water, mainly from Bone Spring and Wolfcamp wells. There are 400 approved Bone Spring wells and 31 approved Wolfcamp wells in in T. 19 & 20 S., R. 34 & 35 E. The well will take other Permian Basin waters. Abstracts of T. 19 & 20 S., R. 34 & 35 E. produced water analyses (from Go-Tech) are in Exhibit H. Devonian TDS ranged from 33,414 to 45,778 mg/l.
Solaris has not experienced any compatibility problems in the first 9 months of operating its Solaris Eddy State 2 (30-015-44001) Devonian SWD well. Over 3,923,534 barrels have been disposed to date. Solaris has not experienced any compatibility problems in the first 6 months of operating its Lobo 285 State 1 (30-015-43979) Silurian Ordovician SWD well. Over 1,918,620 barrels have been disposed to date.

5. No Devonian or Silurian producer is within five miles. Closest Devonian or Silurian producer was the Lea Unit 2, 4405' southwest in F-12-20s-34e. It was approved as a Devonian; SWD in 2015, but the conversion did not occur. Devonian was subsequently isolated and plugged in 2018, and well is now a Bone Spring oil well. Closest Devonian or Silurian SWD well (30-025-45344) is 3.03 miles southwest in A-22-20s-34e. It was spudded on 2-28-19.

VIII. The Devonian Silurian (estimated 1,457' thick) is mainly comprised of limestone and dolomite. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary at the surface. According to State Engineer records (Exhibit H), closest water well is 433' northwest. It, and two other water wells within a 2-mile radius, were found to be dry during a November 3, 2018 filed inspection. One steel stock tank in Section 1 a mile to the northwest was sampled. Well will penetrate Capitan reef and is 3.3 miles south of the Ogallala aquifer. No underground source of drinking water is below the proposed disposal interval. Formation tops are:

Quaternary = 0'
Rustler anhydrite = 1742'
Yates = 3716'
Seven Rivers = 4002'
Queen = 4694'
Cherry Canyon = 5771'
Brushy Canyon = 6994'
Bone Spring = 8240'
Wolfcamp = 11218'
Strawn = 12265'
Atoka = 12464'
Morrow = 12993'
Mississippian = 13442'
Woodford shale = 14492'
Devonian/Silurian = 14674'
disposal interval = 14674' - 16031'
Fusselman = 15653'
TD = 16031'
(Montoya = 16131')

Four water wells are within a 2-mile radius according to State Engineer records (Exhibit I), deepest of which is 100'. There will be >12,932' of vertical separation and shale, salt, and anhydrite intervals between the bottom of the only likely underground water source (Quaternary) and the top of the Devonian.

IX. The well will be stimulated with acid.

X. A CBL will be run from production casing setting depth to surface. GR log will be run from TD to surface.

XI. Both water wells within a mile in the State Engineers database were found to be dry (Exhibit I) on November 3, 2018. A stock tank not in the database and a mile northwest was sampled.

XII. Solaris Water Midstream, LLC (Exhibit J) is not aware of any geologic or engineering data that may indicate the Devonian or Silurian is in hydrologic connection with any underground sources of water. Deepest water well within a 2-mile radius is 100'. There are 63 approved Devonian-Silurian SWD wells in New Mexico. Closest Quaternary fault is ≈94 miles southwest.

XIII. A legal ad (see Exhibit K) was published on December 13, 2018.

Notice (this application) has been sent (Exhibit L) to the surface owner (L & K Ranch LLC), all well operators (BTA, Caza, Cimarex, COG, Legacy, Tandem, XTO) regardless of depth, government lessors (BLM, NMSLO), lessees of record (BTA, Burlington, Chevron USA, Cimarex, COG, Concho, EOG, Hanley Petroleum, Legacy, LHAH Properties, Magnum Hunter, Marshall & Winston, Rubicon, SDX, 84 Exploration), operating right holders (Barstow Energy, Caza, Mack Chase, COG, EOG, Greenville Partners, Susan Humphreys, Jupiter, Legacy, Mack Energy, Marshall

SOLARIS WATER MIDSTREAM, LLC
KLEIN 6 SWD 1
236' FSL & 508' FWL
SEC. 6, T. 20 S., R. 35 E., LEA COUNTY, NM

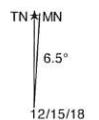
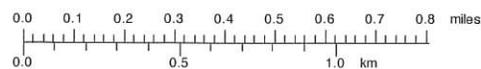
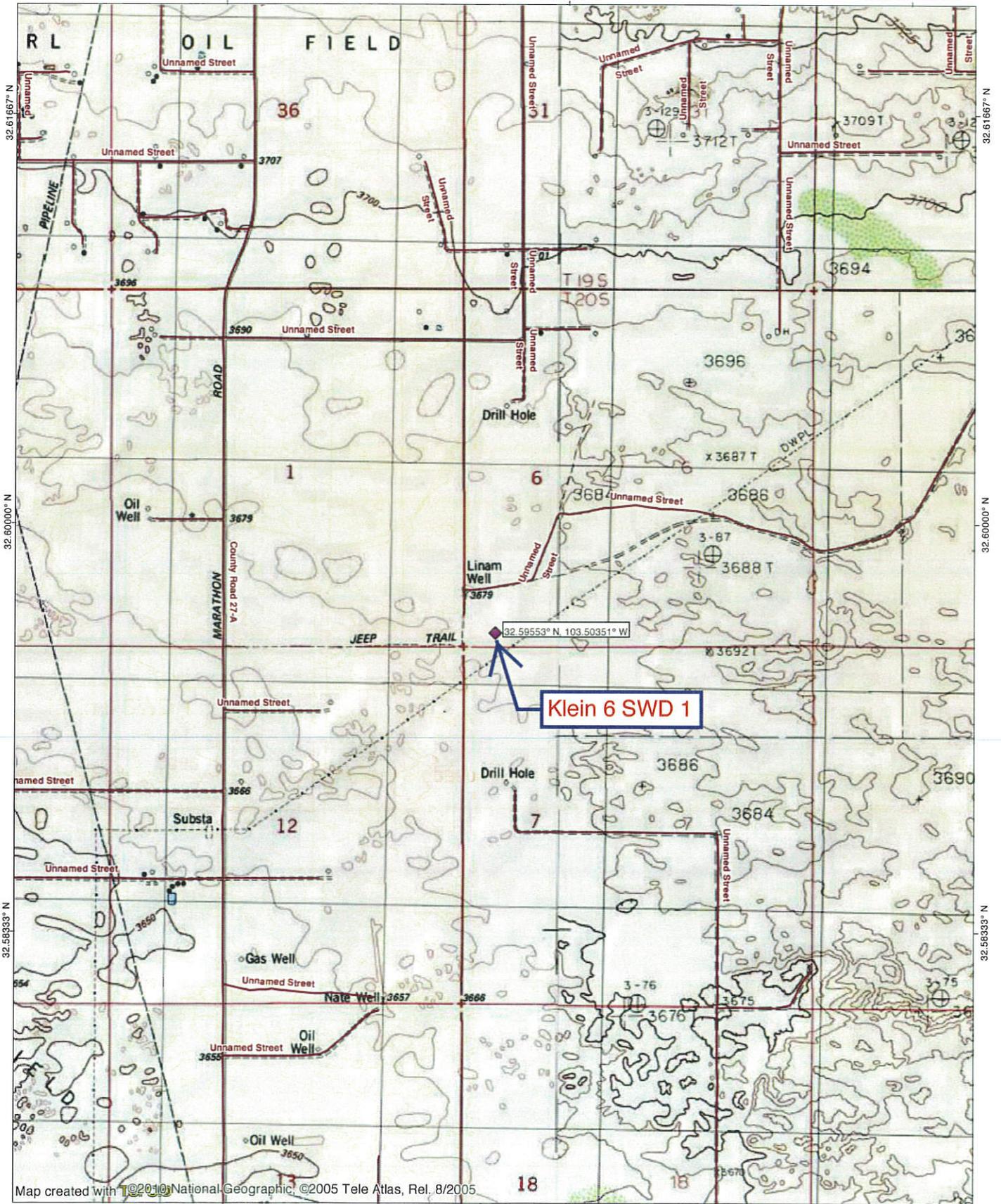
PAGE 6

& Winston, Moriah, Charles Rice, Rubicon, Samson), and other interest owners within a mile.

103.51667° W

103.50000° W

WGS84 103.48333° W



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

EXHIBIT A

Form C-102
Revised October 12, 2010
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number		Pool Code 97869	Pool Name SWD; DEVONIAN - SILURIAN
Property Code	Property Name KLEIN 6 SWD		Well Number #1
OGRID No. 371643	Operator Name SOLARIS WATER MIDSTREAM, LLC		Elevation 3684.1'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
-	6	20-S	35-E		236	SOUTH	508	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
-	6	20-S	35-E		236	SOUTH	508	WEST	LEA

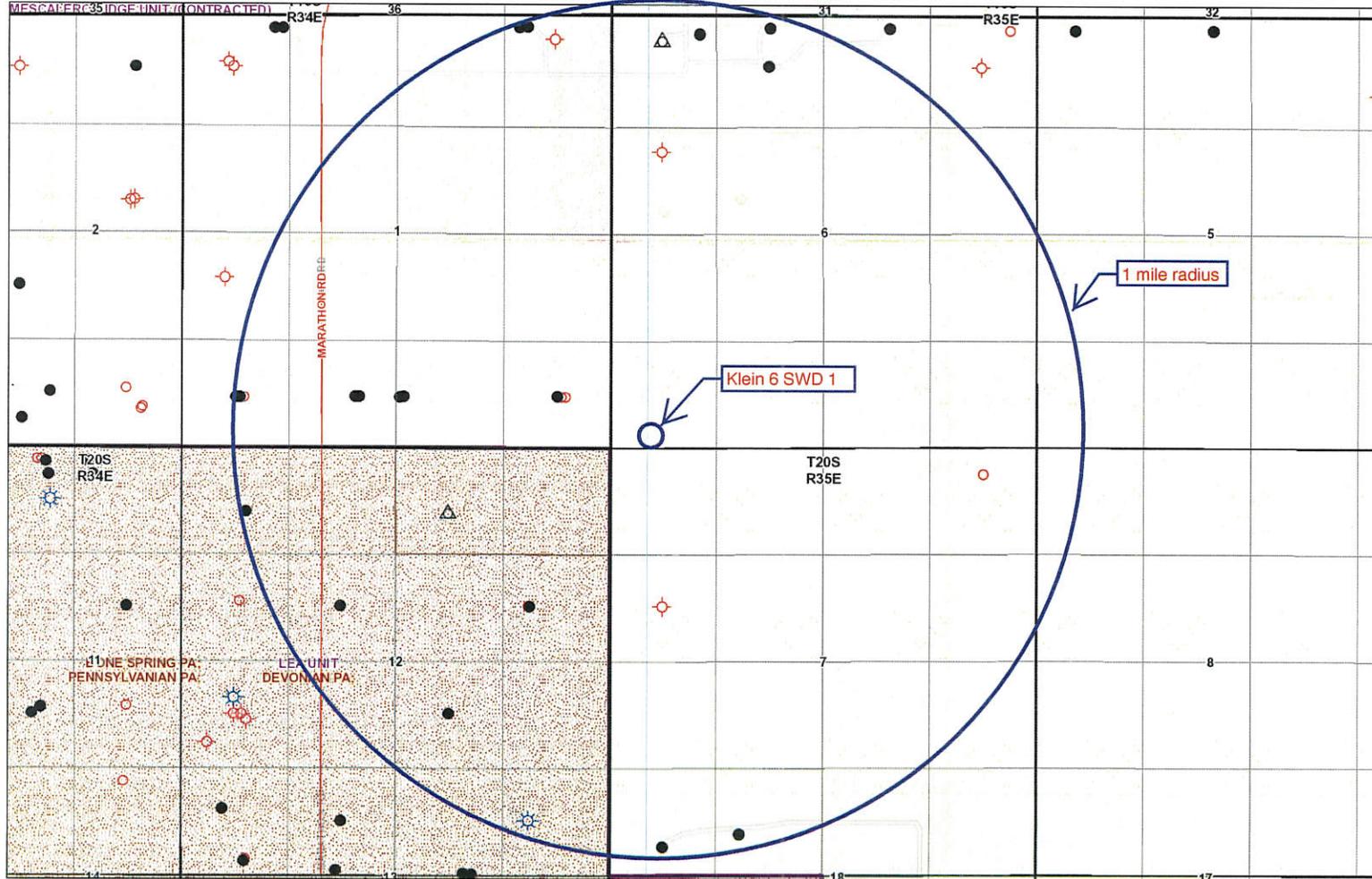
Dedicated Acres 5.51	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p style="text-align: center;">NAD 83</p> <p>SW CORNER SURFACE LOCATION</p> <p>Y=11835153.9 N Y=11835400.210 N X= 2100662.1 E X= 2101166.423 E</p> <p>S.L. 508' 236'</p> <p>SE CORNER</p> <p>Y=11835275.4 N X=2105930.2 E</p>	<p align="center">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>_____ Signature Date</p> <p>_____ Printed Name</p>
	<p align="center">SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p align="right">JULY 31, 2018</p> <p>Date Surveyed</p> <p>Signature & Seal of Professional Surveyor</p> <p align="right">  <i>Donald A Shapiro</i> </p>
	<p align="center">KLEIN 6 SWD #1</p>
	<p>Certificate No. DONALD A. SHAPIRO 16606</p>



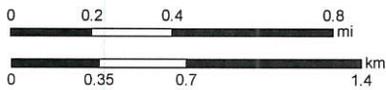
Oil, Gas, and Minerals Leases and Wells



- Legend**
- Townships
 - Sections
 - Subdivisions
 - Carbon Dioxide
 - Gas
 - Injection
 - Oil
 - Salt Water Disposal
 - Water Storage
 - Miscellaneous
 - Plugged / Dry / Abandoned
 - Cancelled / Not Drilled
 - Highway Mileposts
 - Detailed Roads
 - Unit Agreement Boundaries
 - Participating Areas in Units

Disclaimer:
 The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.



SORTED BY DISTANCE FROM KLEIN 6 SWD 1

API	OPERATOR	RANGE	UNIT LETTER	SECTION	TOWNSHIP	TVD	WELL	STATUS	CURRENT OR MOST RECENT ZONE	FERT FROM KLEIN 6 SWD 1
3002544252	LEGACY	34E	P	1	20.0S	plan 9800	LEA UNIT 053H	O	BONE SPRING	1118
3002544301	LEGACY	34E	P	1	20.0S	plan 10500	LEA UNIT 052H	O	BONE SPRING	1165
3002542958	LEGACY	34E	P	1	20.0S	10981	LEA UNIT 051H	O	BONE SPRING	1212
3002503337	SINCLAIR	35E	2	7	20.0S	14947	LEA FEDERAL 001	P&A	DELAWARE, BONE SPRING, STRAWN, DEVONIAN	2195
3002539010	LEGACY	34E	H	12	20.0S	11495	LEA FEDERAL UNIT 022	O	BONE SPRING	2642
3002502431	LEGACY	34E	B	12	20.0S	14693	LEA UNIT 008	SWD	SEVEN RIVERS	2722
3002544411	LEGACY	34E	O	1	20.0S	9517	LEA UNIT 050H	O	BONE SPRING	3075
3002544410	LEGACY	34E	O	1	20.0S	10462	LEA UNIT 049H	O	BONE SPRING	3125
3002503336	CACTUS	35E	5	6	20.0S	5100	FEATHERS TONE FEDERAL 004	P&A	QUEEN	3427
3002543146	LEGACY	34E	N	1	20.0S	9743	LEA UNIT 048H	O	BONE SPRING	3603
3002543145	LEGACY	34E	N	1	20.0S	10521	LEA UNIT 047H	O	BONE SPRING	3653

SORTED BY DISTANCE FROM KLEIN 6 SWD 1

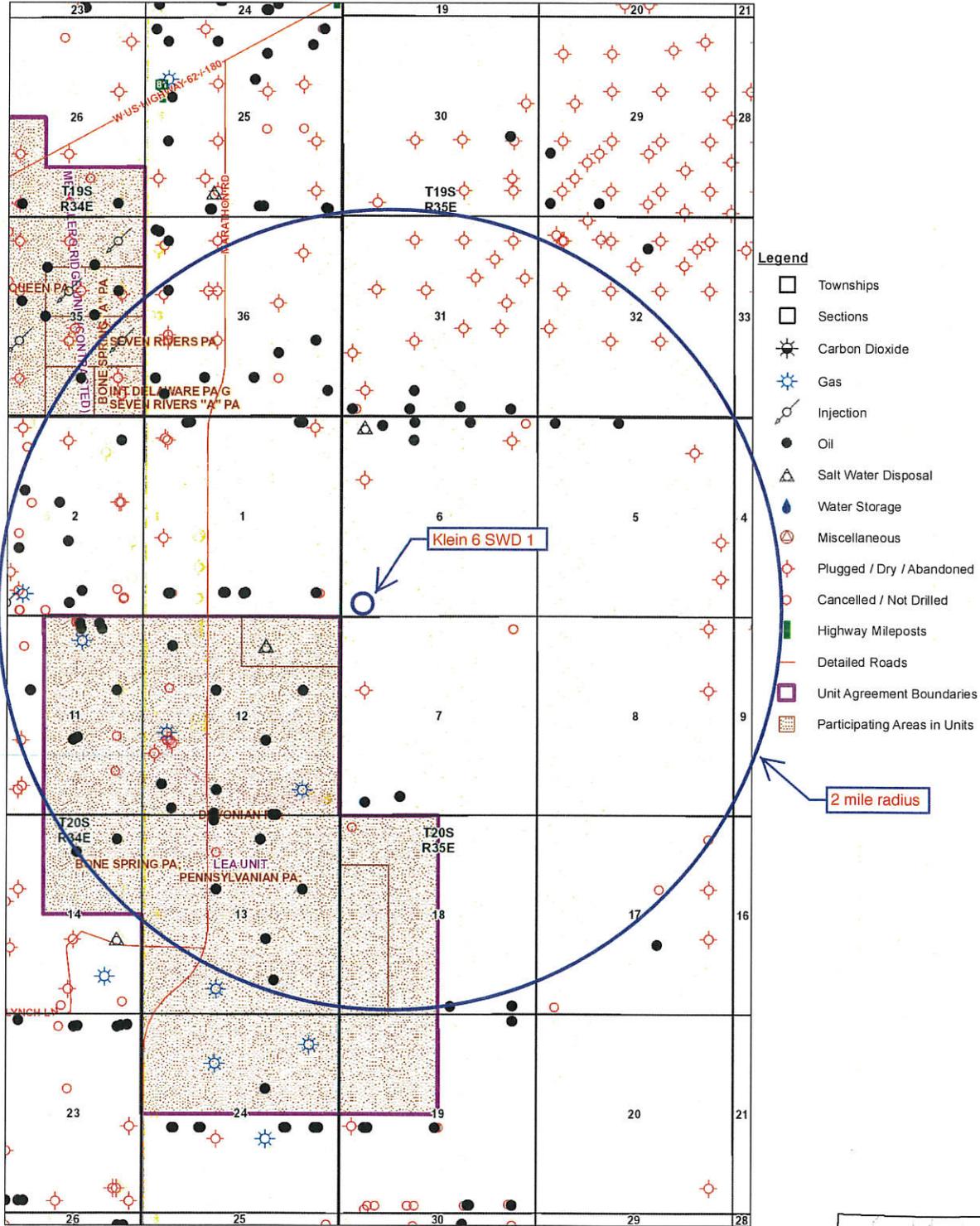
API	OPERATOR	RANGE	UNIT LETTER	SECTION	TOWNSHIP	TVD	WELL	STATUS	CURRENT OR MOST RECENT ZONE	FERT FROM KLEIN 6 SWD 1
3002502429	LEGACY	34E	J	12	20.0S	14476	LEA UNIT 005	O	BONE SPRING	4326
3002502428	LEGACY	34E	F	12	20.0S	14501	LEA UNIT 002	O	BONE SPRING	4414
3002503334	TANDEM	35E	3	6	20.0S	5028	CACTUS FEDERAL 002	O	QUEEN	4702
3002540778	COG	35E	4	6	20.0S	11106	PRICKLY PEAR 6 FEDERAL 004H	O	BONE SPRING	4783
3002503335	TANDEM	35E	4	6	20.0S	5030	CACTUS FEDERAL 003	SWD	QUEEN	4808
3002520189	TANDEM	34E	1	1	20.0S	5000	TEXACO FEDERAL 002	P&A	QUEEN	4956
3002542292	COG	34E	1	1	20.0S	11015	BLACK PEARL 1 FEDERAL COM 001H	O	BONE SPRING	5055
3002541629	COG	35E	3	6	20.0S	11116	PRICKLY PEAR 6 FEDERAL 003H	O	BONE SPRING	5057
3002537525	LEGACY	34E	D	12	20.0S	11128	LEA FEDERAL UNIT 021	O	BONE SPRING	5071

SORTED BY DISTANCE FROM KLEIN 6 SWD 1

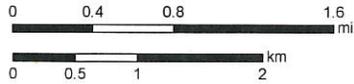
API	OPERATOR	RANGE	UNIT LETTER	SECTION	TOWNSHIP	TVD	WELL	STATUS	CURRENT OR MOST RECENT ZONE	FERT FROM KLEIN 6 SWD 1
3002536905	LEGACY	34E	P	12	20.0S	13295	LEA FEDERAL UNIT 019	G	BONE SPRING	5072
3002543143	LEGACY	34E	M	1	20.0S	10410	LEA UNIT 045H	O	BONE SPRING	5073
3002542293	COG	34E	1	1	20.0S	11000	BLACK PEARL 1 FEDERAL 002H	O	BONE SPRING	5087
3002542885	LEGACY	34E	M	1	20.0S	10921	LEA UNIT 044H	O	BONE SPRING	5123
3002542063	XTO	35E	4	31	19.0S	11036	PERLA VERDE 31 STATE 001H	O	BONE SPRING	5182
3002542546	CIMAREX	35E	N	7	20.0S	11175	LEA 7 FEDERAL COM 002H	O	BONE SPRING	5190
3002542268	CIMAREX	35E	4	7	20.0S	11064	LEA 7 FEDERAL COM 001H	O	BONE SPRING	5242
3002541862	XTO	35E	N	31	19.0S	10968	PERLA VERDE 31 STATE 003H	O	BONE SPRING	5363



Oil, Gas, and Minerals Leases and Wells



- Legend**
- Townships
 - Sections
 - Carbon Dioxide
 - Gas
 - Injection
 - Oil
 - Salt Water Disposal
 - Water Storage
 - Miscellaneous
 - Plugged / Dry / Abandoned
 - Cancelled / Not Drilled
 - Highway Mileposts
 - Detailed Roads
 - Unit Agreement Boundaries
 - Participating Areas in Units



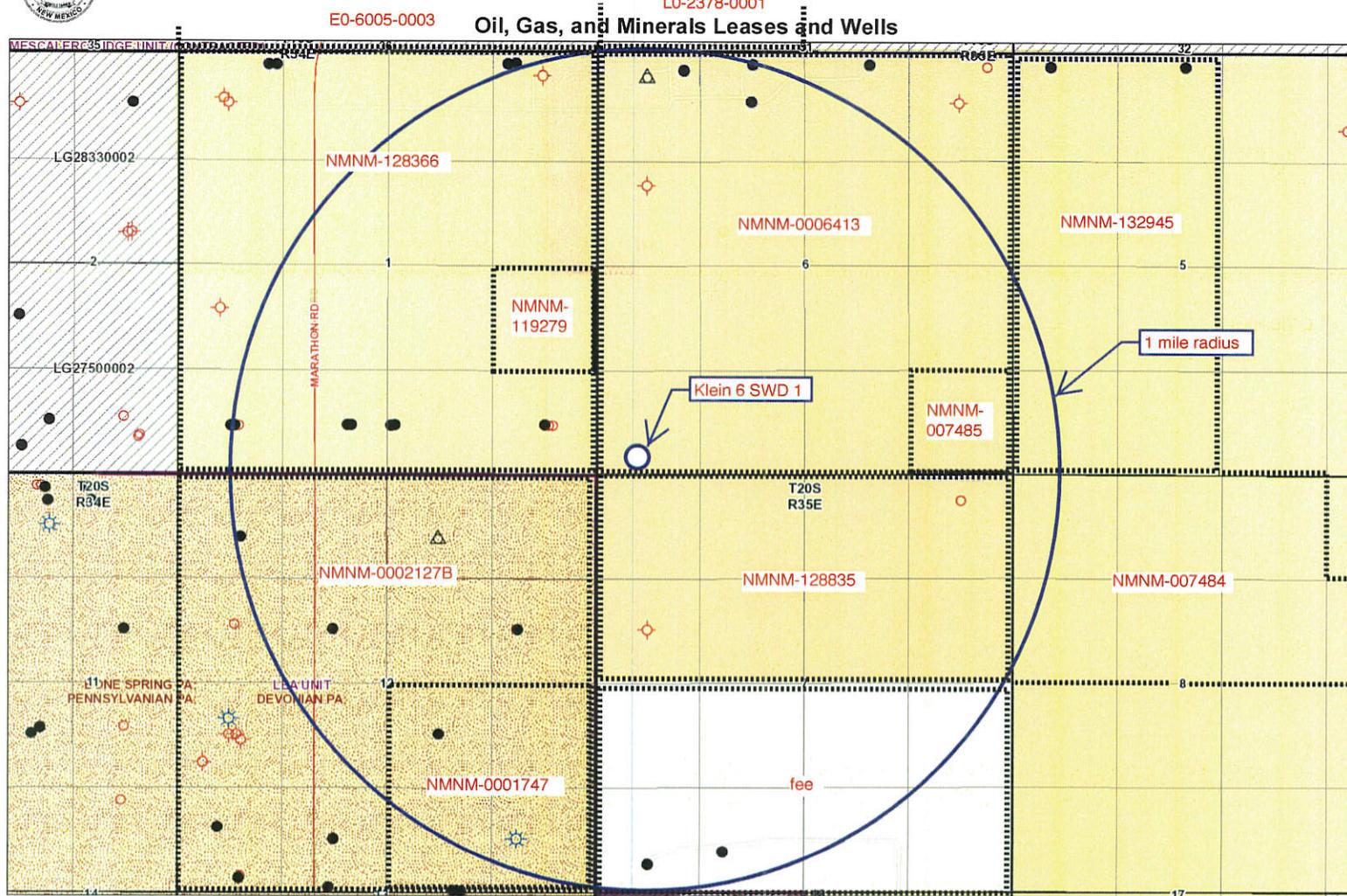
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New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



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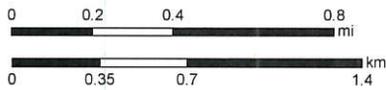


EXHIBIT D
 Map Created: 12/15/2018

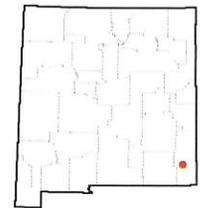


EXHIBIT D

Legend

- Townships
- Sections
- Subdivisions
- Carbon Dioxide
- Gas
- Injection
- Oil
- Salt Water Disposal
- Water Storage
- Miscellaneous
- Plugged / Dry / Abandoned
- Cancelled / Not Drilled
- Highway Mileposts
- Detailed Roads
- Unit Agreement Boundaries
- Participating Areas in Units
- Oil and Gas Leases
- Potash District
- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

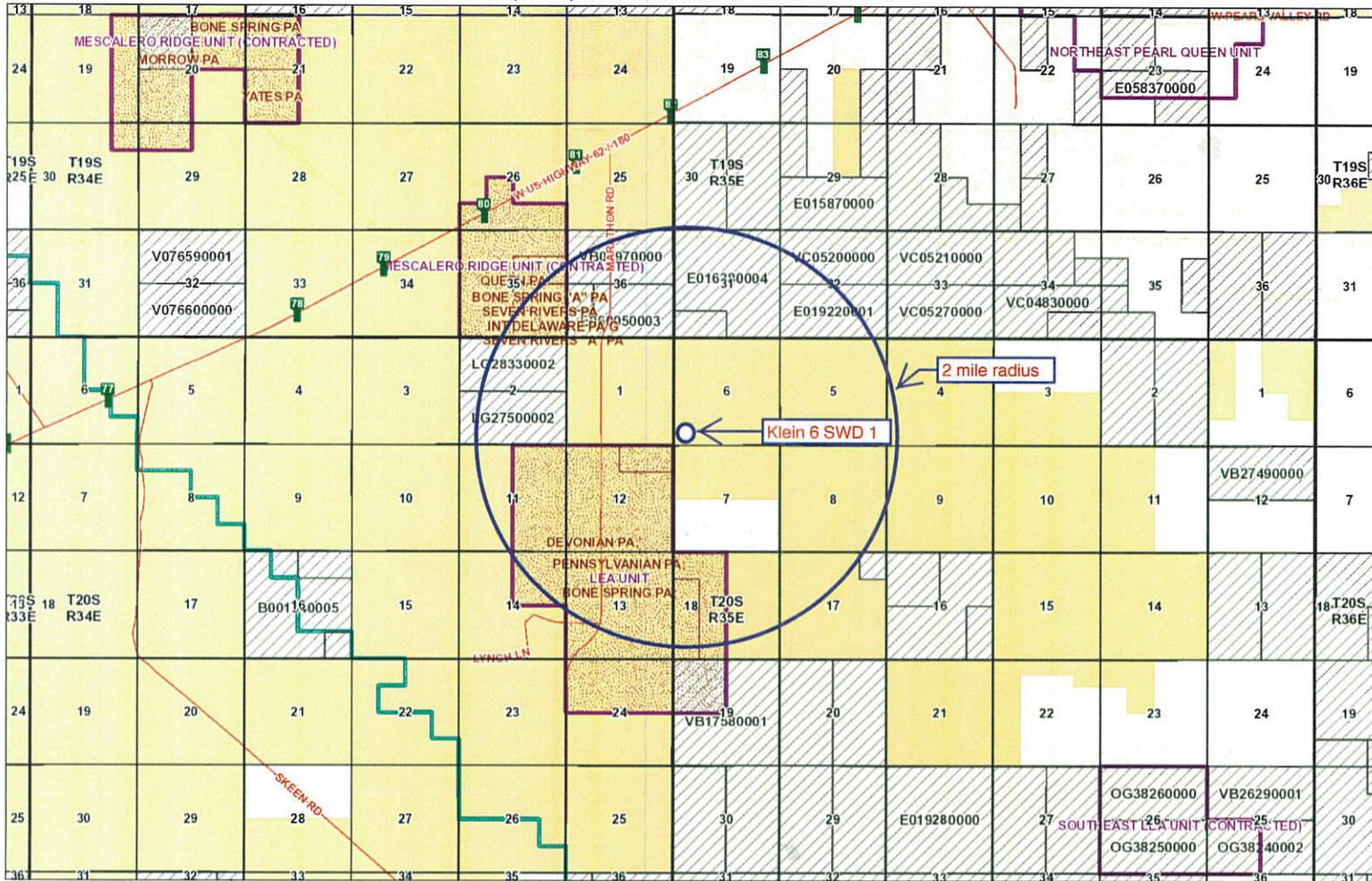
KLEIN 6 SWD 1 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review	Lessor	Lease	Lessee(s) of Record	Operator(s) (all shallower than Devonian)
SESE 36-19S-34E	NMSLO	E0-6005-0003	Magnum Hunter	COG & Tandem
S2SW4 31-19S-35E	NMSLO	L02378-0001	BTA	BTA & XTO
NE4, E2NW4, SWNW, SW4, W2SE4, SWSE 1-20S-34E	BLM	NMNM-128366	Rubicon	COG & Legacy
NESE 1-20S-34E	BLM	NMNM-119279	Concho & COG	COG & Legacy
N2 & E2SW4 12-20S-34E	BLM	NMNM-0002127B	Legacy	Legacy
SE4 12-20S-34E	BLM	NMNM-0001747	Legacy	Legacy
W2SW4 5-20S-35E	BLM	NMNM-132945	SDX	Caza
N2, SW4, N2SE4, & SWSE 6- 20S-35E	BLM	NMNM-0006413	COG	COG & Tandem
SESE 6-20S-35E	BLM	NMNM-007485	Chevron USA	COG
N2 7-20S-35E	BLM	NMNM-128835	Marshall & Winston, 84 Exploration, Hanley Petroleum, & LHAH Properties	Cimarex Energy
S2 7-20S-35E	fee	Lea 7H Federal Com	Cimarex Energy	Cimarex Energy
W2NW4 8-20S-35E	BLM	NMNM-007484	EOG & Burlington	Caza



Oil, Gas, and Minerals Leases and Wells

EXHIBIT E



Legend

- Townships
- Sections
- Highway Mileposts
- Detailed Roads
- Unit Agreement Boundaries
- Participating Areas in Units
- Oil and Gas Leases
- Potash District
- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

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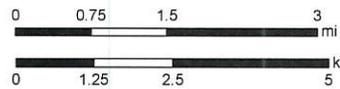
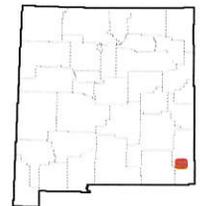


EXHIBIT E

Map Created: 12/15/2018



DEVONIAN PENETRATORS WITHIN 1 MILE OF KLEIN 6 SWD 1

WELL	SPUD	TD	CURRENT OR MOST RECENT ZONE	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	SACKS CEMENT	TOC	HOW DETERMINED
Lea Federal 1	8/26/60	14947	Delaware, Bone Spring, Strawn, & Devonian	P&A	no report	16	382	670	no report	N/A
30-025-03337					no report	9.625	4600	1040	2400	casing pulled
E-7-20s-35e					no report	5.5	13934	266	13220	casing pulled
Lea Unit 8	12/12/61	14693	Seven Rivers	SWD	17.5	13.375	870	725	GL	circ.
30-025-02431					no report	9.625	5507	900	GL	circ.
B-12-20s-34e					no report	5.5	13790	1500	no report	N/A
Lea Unit 5	2/6/61	14476	Bone Spring	O	17.5	13.375	869	1050	GL	circ.
30-025-02429					12.5	9.625	5502	2150	2600	no report
J-12-20s-34e					8.75	7	14353	2160	9260	no report
Lea Unit 2	9/15/60	14501	Bone Spring	O	17.5	13.375	851	600	GL	circ.
30-025-02428					12.25	9.625	5006	3000	445	temp. surv.
F-12-20s-34e					8.75	7	14100	2050	8000	CBL
					6	4.5	14499	125	14009	no report

Operator: Legacy Reserves Operating LP
 Surface Lease: NM02127b BHL: NM02127b
 Case No: NM70976a Unit Agreement
 Subsurface Concerns for Casing Designs: Cap KFC
 Well Status: OSI
 Spud date: 9/15/1960
 Plug'd Date:
 Reentry Date:

Well: LEA UNIT-2
 API: 3002502428
 @ Srfce: T20S-R34E,12.1980n1980w
 @ M TD: T20S-R34E,12.1980n1980w
 Estate: FVF
 CWDW, R of W: 0
 OCD Admn Order, date:
 Frmtn, Depths, psig:

KB: 3686
 GL: 3667
 Corr: 19

Bone Spring perms
 9505' - 10246'

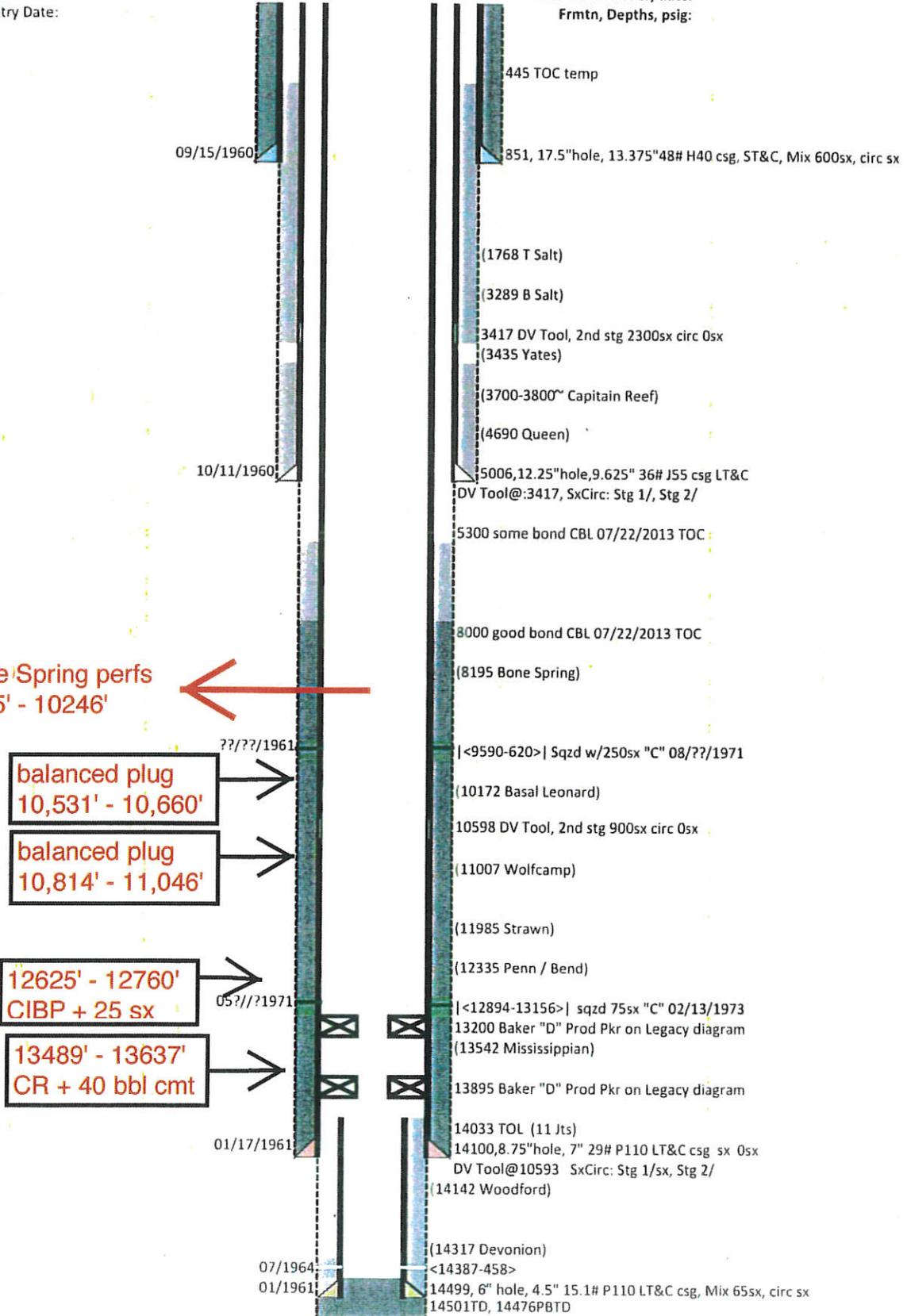


EXHIBIT F

LEA UNIT WELL NO. 5, LEA DEVONIAN POOL
SEC. 12-20S-34E, 1980' FSL & 1980' FEL,
LEA COUNTY, NEW MEXICO

30-025-02429
spud 2-6-61

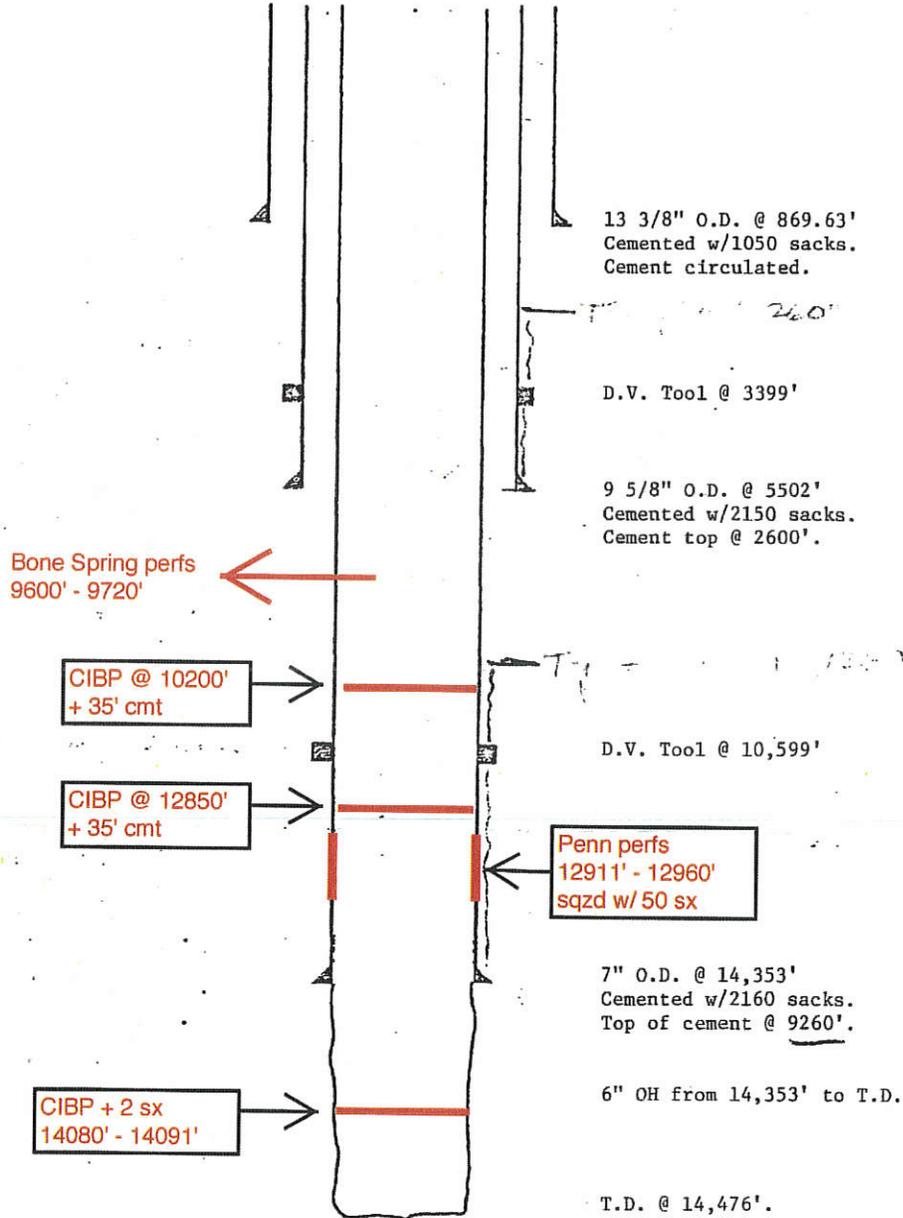


EXHIBIT F

Lea Unit 8
 30-025-02431
 B-12-20s-34e
 spud 12-12-61
 converted to SWD; Seven Rivers 9-10-77

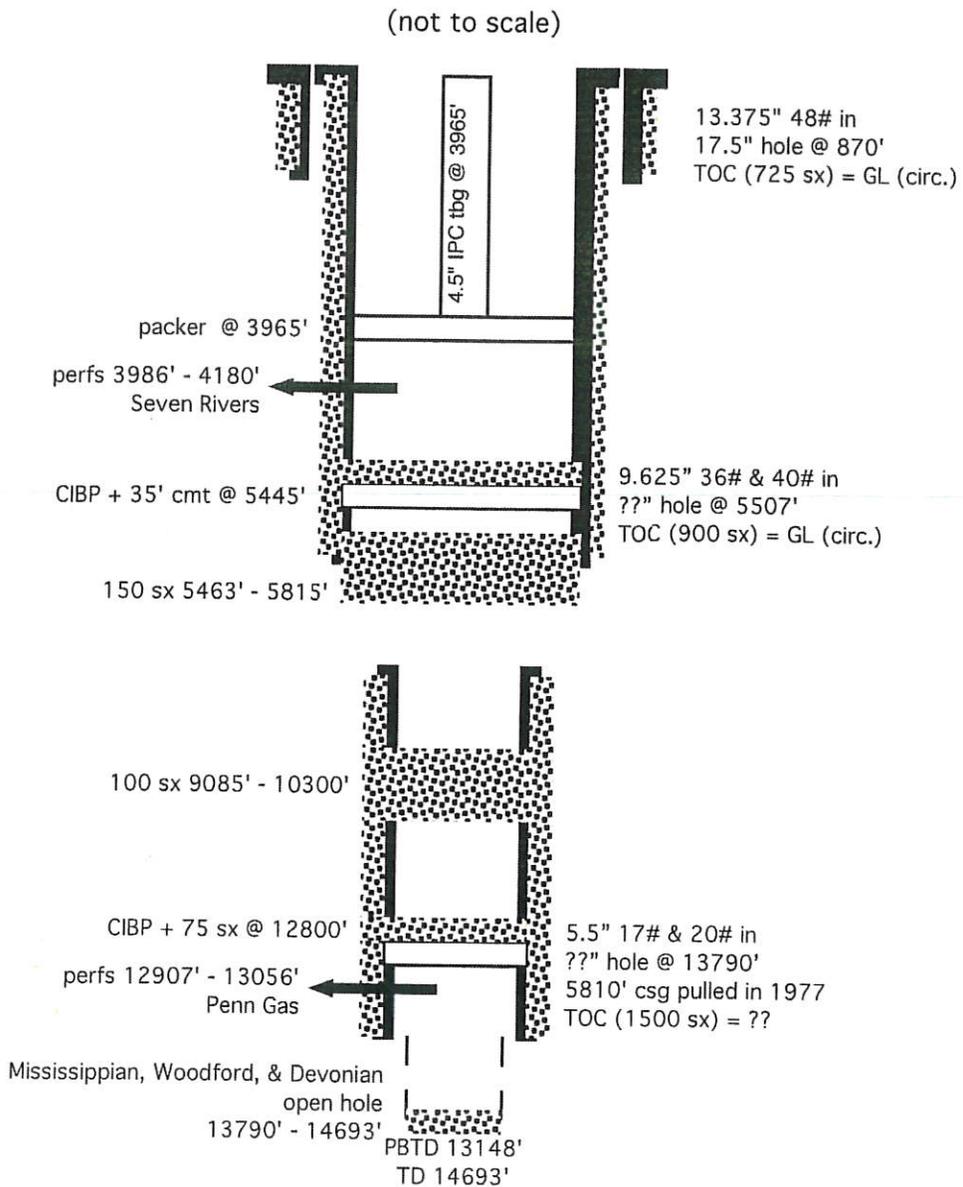
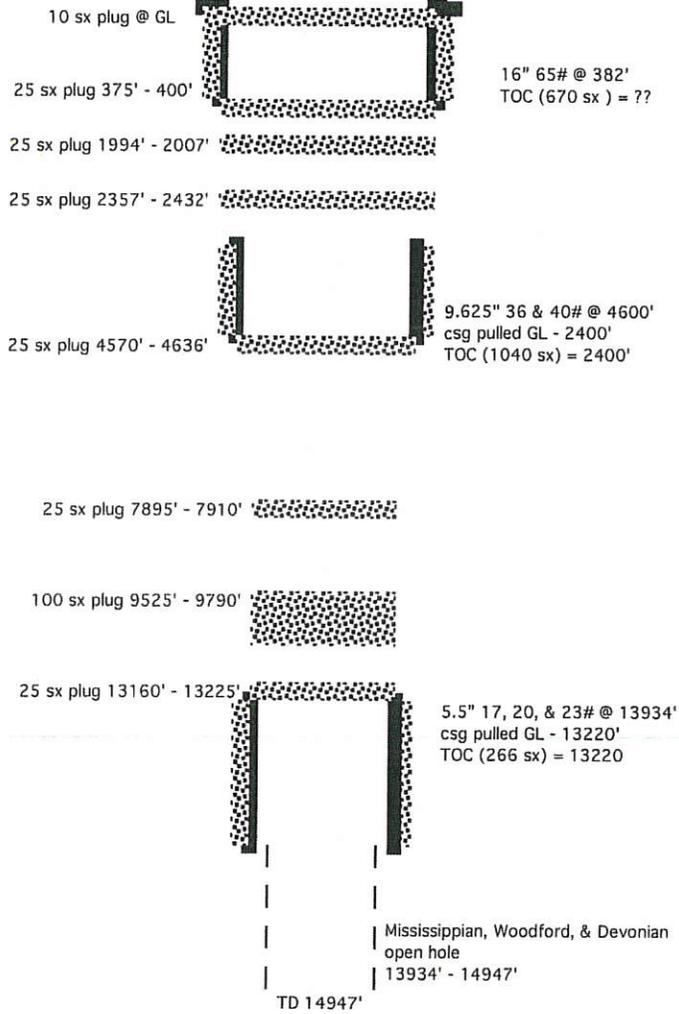


EXHIBIT F

Lea Federal 1
 30-025-03337
 E-7-20s-35e
 spud 8-26-60
 P&A 3-2-61

(not to scale)

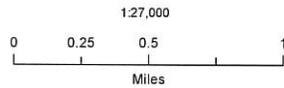


Solaris Water Midstream

Klein 6 SWD No. 1 Nearby SWD Well Map

Section 6, Township 20S, Range 35E
Lea County, New Mexico

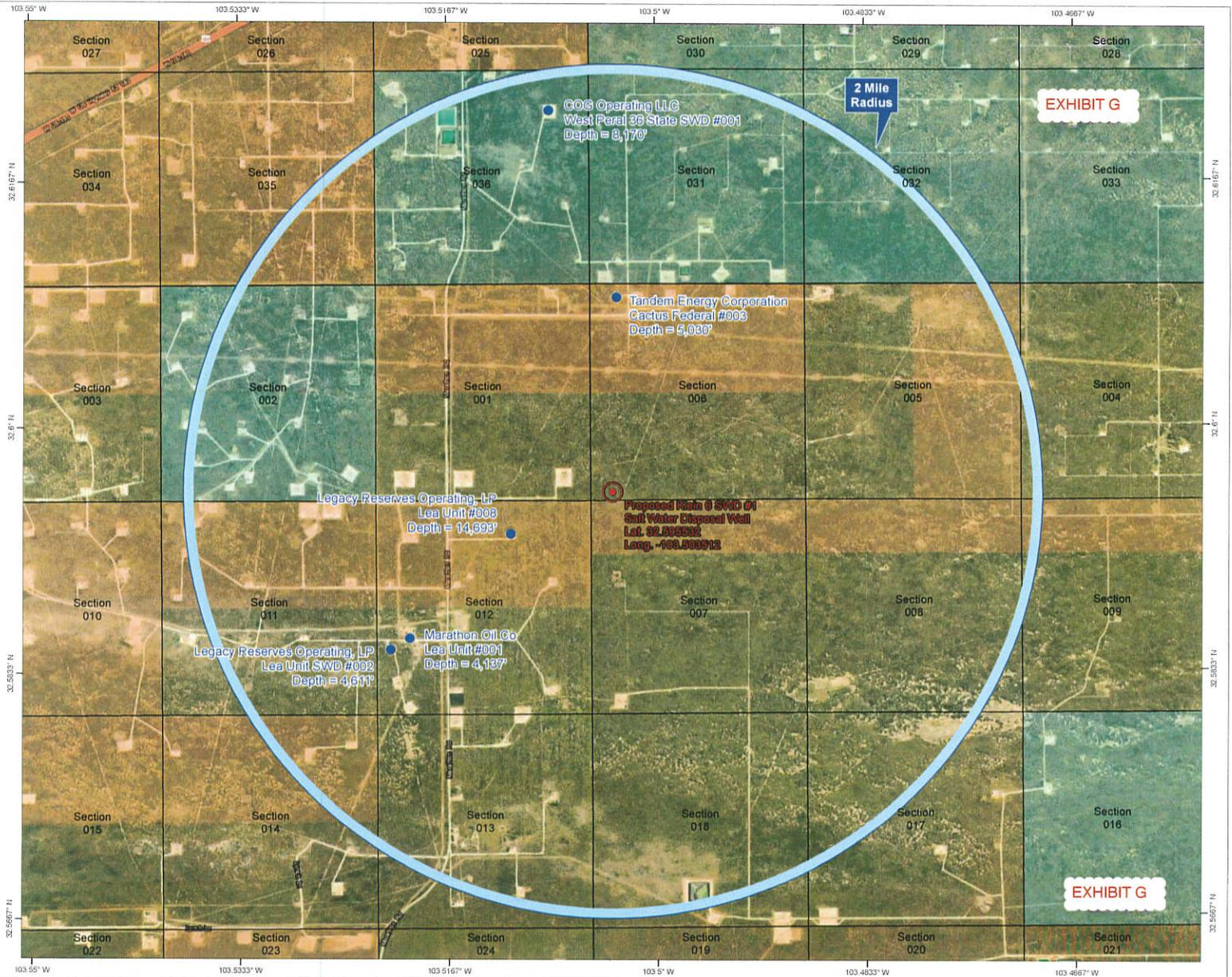
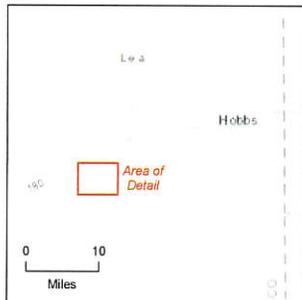
-  Klein 6 SWD Well
-  SWD Wells
-  State Surface
-  BLM Surface



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



Prepared by Permits West, Inc., October 22, 2018
for Solaris Water Midstream



PRODUCED WATER (mg/l) FROM T. 19 AND 20 S., R. 34 AND 35 E.

API	SECTION	TOWNSHIP	RANGE	FORMATION	TDS	CHLORIDE	BICARBONATE	SUFATE
3002502395	25	19S	34E	ARTESIA	295707	184000	720	1074
3002502395	25	19S	34E	ARTESIA	288496	181300	664	1422
3002508457	25	19S	34E	ARTESIA	225796			
3002502405	36	19S	34E	ARTESIA	172201	107800	395	610
3002503163	15	19S	35E	ARTESIA	311153	193100	564	747
3002503189	22	19S	35E	ARTESIA	302747	188000	215	1140
3002503212	27	19S	35E	ARTESIA	242504	150400	563	1492
3002503229	28	19S	35E	ARTESIA	240799	149200	352	711
3002503241	29	19S	35E	ARTESIA	242263	152100	71	350
3002503241	29	19S	35E	ARTESIA	241833	151700	71	350
3002503242	29	19S	35E	ARTESIA	242146	151100	53	372
3002503244	29	19S	35E	ARTESIA	238283	148500	106	372
3002503244	29	19S	35E	ARTESIA	238553	148800	106	372
3002503247	29	19S	35E	ARTESIA	250156	154900	65	1432
3002503247	29	19S	35E	ARTESIA	243283	151500	141	940
3002503248	29	19S	35E	ARTESIA	237684	149500	35	257
3002503284	33	19S	35E	ARTESIA	219950	138000	38	418
3002503304	34	19S	35E	ARTESIA	221538	137500	225	971
3002502427	12	20S	34E	ARTESIA	16150	7600	185	2750
3002502427	12	20S	34E	ARTESIA	16595	8000	170	2500
3002526625	19	20S	34E	ARTESIA	24817	14919	457	170
3002526625	19	20S	34E	ARTESIA	4911	268	423	111
3002523861	20	20S	34E	ARTESIA	33296	20220	425	454
3002502439	21	20S	34E	ARTESIA	9610	3760	295	2340
3002502449	22	20S	34E	ARTESIA	20395	9800	1360	2020
3002508462	22	20S	34E	ARTESIA	19994	10950	532	811
3002521346	22	20S	34E	ARTESIA	15685	5925	1003	3450
3002502478	29	20S	34E	ARTESIA	31894	17830	588	1640
3002502511	35	20S	34E	ARTESIA	18174	7932	46	3647
3002503315	3	20S	35E	ARTESIA	218754	135000	4	1700

PRODUCED WATER (mg/l) FROM T. 19 AND 20 S., R. 34 AND 35 E.

API	SECTION	TOWNSHIP	RANGE	FORMATION	TDS	CHLORIDE	BICARBONATE	SUFATE
3002503327	4	20S	35E	ARTESIA	149470	94150	164	1246
3002503361	25	20S	35E	ARTESIA	174035	106839	367	2726
3002503156	6	19S	35E	BONE SPRING	25800	14100	830	1120
3002503156	6	19S	35E	BONE SPRING	53622	30550	1123	2280
3002503156	6	19S	35E	BONE SPRING	195200	118000	220	1030
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
3002520377	17	20S	35E	BONE SPRING	173141	93660	5174	7916
3002540405	2	19S	34E	BONE SPRING 3RD SAND	182368	81893	354	823
3002540405	2	19S	34E	BONE SPRING 3RD SAND	184335	112867	134	0
3002540405	2	19S	34E	BONE SPRING 3RD SAND	182322	111475	85	490
3002540549	2	19S	34E	BONE SPRING 3RD SAND	182368	85041	362	956
3002540549	2	19S	34E	BONE SPRING 3RD SAND	187998	117308	146	0
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
3002520377	17	20S	35E	DEVONIAN	44825			
3002502431	12	20S	34E	PENNSYLVANIAN	44800	25320	1401	1038
3002502431	12	20S	34E	PENNSYLVANIAN	35094	19020	1272	1096
3002502431	12	20S	34E	PENNSYLVANIAN	42216	24000	1256	920
3002503229	28	19S	35E	PENROSE		149248	352	711
3002503247	29	19S	35E	QUEEN		151575	141	940
3002503247	29	19S	35E	QUEEN		154968	65	1432

PRODUCED WATER (mg/l) FROM T. 19 AND 20 S., R. 34 AND 35 E.

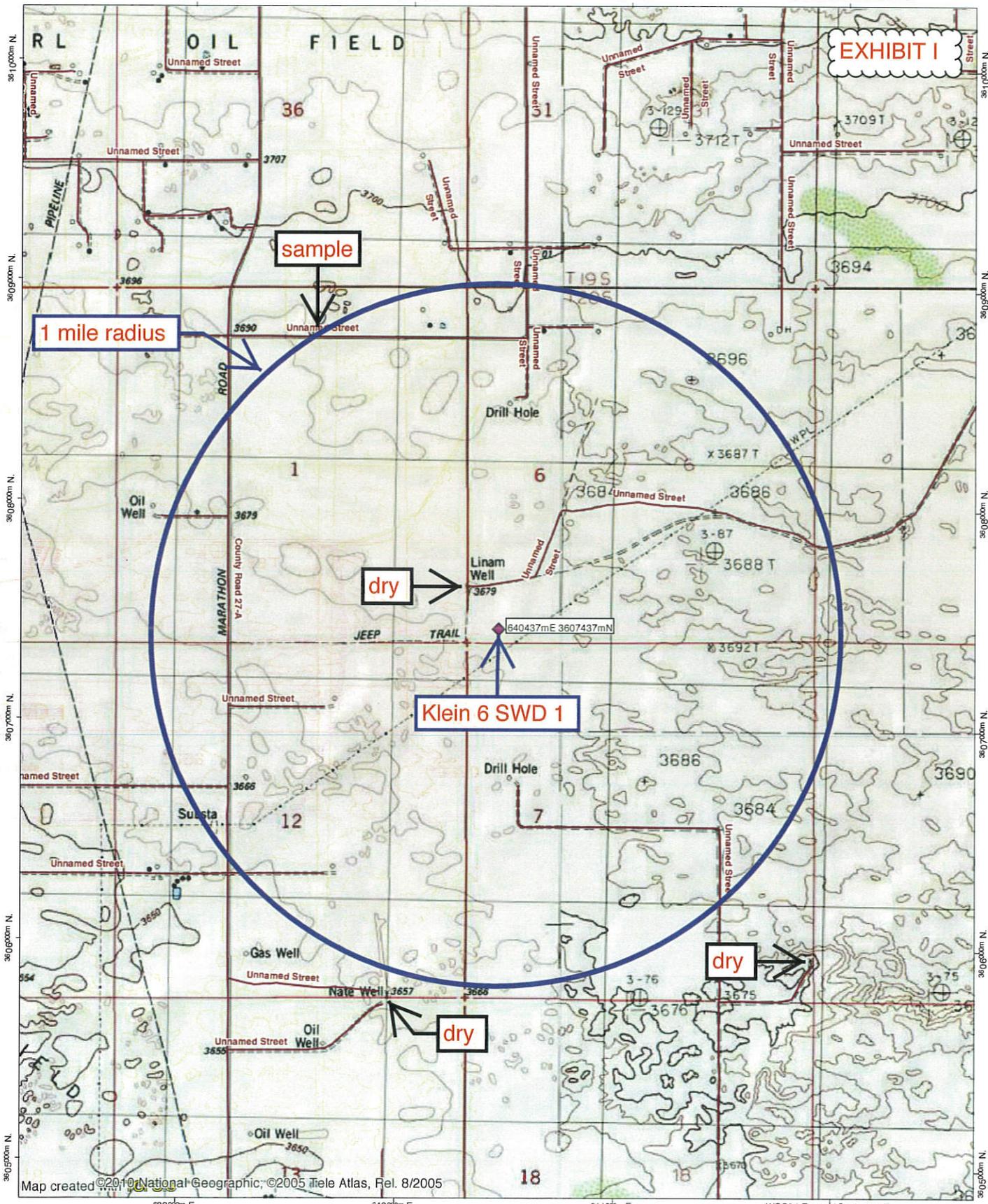
3002503247	29	19S	35E	QUEEN		151575	141	940
3002503248	29	19S	35E	QUEEN		149504	35	257
3002503284	33	19S	35E	QUEEN		138040	38	418
3002503307	35	19S	35E	SAN ANDRES	66415	39600	313	993
3002503307	35	19S	35E	SAN ANDRES	73409	43880	450	865
3002502408	1	20S	34E	SAN ANDRES	187065	114800	146	220

639000m E.

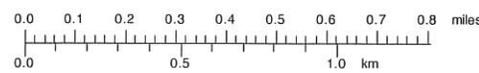
640000m E.

641000m E.

WGS84 Zone 13S 642000m E.



Map created ©2010 National Geographic, ©2005 Tele Atlas, Rel. 8/2005





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

EXHIBIT I

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
L 04157		L	LE	3	3	06	20S	35E	640483	3607561*	132	70	64	6			
CP 00654 POD1		CP	LE	4	4	12	20S	34E	640103	3605947*	1526	60					
L 04158		L	LE	2	4	05	20S	35E	643290	3608008*	2909	70	64	6			
CP 01672 POD1		CP	LE	1	3	1	36	19S	34E	638736	3610009	3084	100				

Average Depth to Water: **64 feet**
 Minimum Depth: **64 feet**
 Maximum Depth: **64 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 640437

Northing (Y): 3607437

Radius: 3220

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/28/18 5:09 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



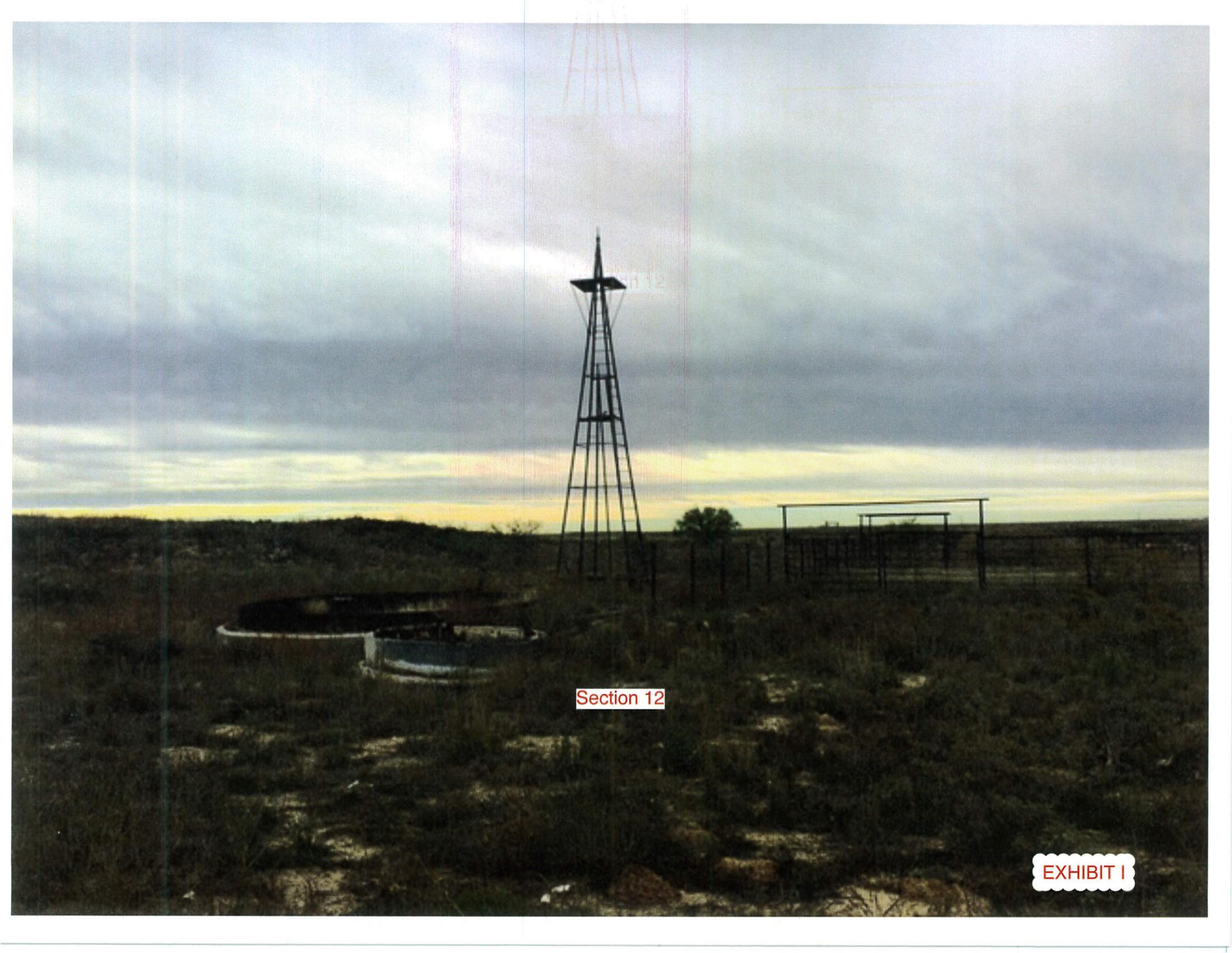
Section 6

EXHIBIT I



Section 7

EXHIBIT I



Section 12

EXHIBIT I



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West **Client Sample ID:** S Klein SWD #1
Project: Solaris Klein SWD and Mike Honcho **Collection Date:** 11/3/2018 11:18:00 AM
Lab ID: 1811383-002 **Matrix:** AQUEOUS **Received Date:** 11/7/2018 2:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							Analyst: SMS
N-Hexane Extractable Material	ND	11.7		mg/L	1	11/12/2018 10:20:00 AM	41468
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	330	50	*	mg/L	100	11/8/2018 4:51:50 PM	R55524
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	2080	40.0	*D	mg/L	1	11/12/2018 5:59:00 PM	41454

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



Ogallala

Klein 6 SWD 1



32.59553, -103.50351

Capitan

EXHIBIT I



1 mi

Geologic Assessment
Solaris Water Midstream, LLC
Klein 6 SWD No. 1
Section 6, Township 20 South, Range 35 East
Lea County, New Mexico

Cory Walk

Cory Walk

B.S., M.S.

Geologist

Permits West Inc.

October 26, 2018



Introduction

Klein 6 SWD #1 is located in section 6, T20S, R35E, about 14 miles west-southwest of Monument, NM in the Permian Basin. Solaris Water Midstream, LLC proposes the injection zone to be within the Devonian (Wristen Group) and Fusselman formations through an open hole from 14,674'-16,131' below ground surface. This report assesses any potential concerns relating to induced seismicity along deep penetrating Precambrian faults or the connection between the injection zone and known underground potable water sources.

Groundwater Sources

Three principal aquifers are used for potable groundwater in Lea County; these geologic units include the Triassic Santa Rosa formation, Tertiary Ogallala formation, and Quaternary alluvium. Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." Around the Klein 6 SWD #1 well, the top of the Rustler formation is located at a depth of ~1,742 feet bgs.

Faults and Fractures

Fault data from the Geologic Map of New Mexico (2003) shows the nearest surface fault to the SWD location is found 45 miles to the southwest (Figure 1). This fault is inferred based on a mapped discontinuity of stratigraphy. Greater than 100 miles southwest of the Klein 6 well is a large accumulation of northwest trending Basin and Range style normal faults. This fault zone is interpreted to be a southeastern extension of the Rio Grande Rift zone (Muehlberger et al., 1978) and is the only area in the region in which deeply penetrating faults also penetrate the shallow aquifer systems.

A structure contour map (Fig. 2) of the Precambrian basement shows the Klein 6 SWD #1 well is ~7 miles from an inferred basement-penetrating fault documented by Ewing et al (1990). Montgomery (1997) shows that these faults do not penetrate anything above the Delaware Mountain group and therefore cannot act as a conduit for transferring deeply injected fluids to the shallow aquifer systems used for domestic, municipal or livestock purposes (Figure 3).

Induced seismicity is a growing concern of deep SWD wells. Relatively new software developed by the Stanford Center for Induced and Triggered Seismicity allows for the probabilistic screening of deeply penetrating faults near the proposed injection zone (Walsh and Zoback, 2016; Walsh et al., 2017). This software uses parameters such as stress orientations, fault strike and dip, injection rates, fault friction coefficients, etc. to estimate the potential for fault slip. Using the best available data as input parameters (Table 1), fault slip potential was modeled through the year 2040. Model results give a maximum of 5 percent (0.05) probability of slip on one fault and 4 percent (0.04) or less on the remaining nearby faults (Fig. 4), recorded or inferred by Ewing et al. (1990).

Stratigraphy

Thick permeability barriers exist above (Woodford shale; 170 ft thick) and below (Simpson Group; 500 ft thick) the targeted Devonian-Silurian injection zone (Plate 2, Comer et al., 1991; Fig. 8,



Frenzel et al., 1988). Approximately 13,000 feet of rock separate the top of the proposed injection zone from the previously stated lower limit of potable water at the top of the Rustler formation.

Conclusions

Geologic data evaluated around the Klein 6 SWD #1 well show no potential structural or stratigraphic connection between the Silurian-Devonian injection zone and any subsurface potable water sources; however, based on Fault Slip Potential modeling there is a small probability (0.05) of inducing seismic activity along deeply penetrating Precambrian faults.

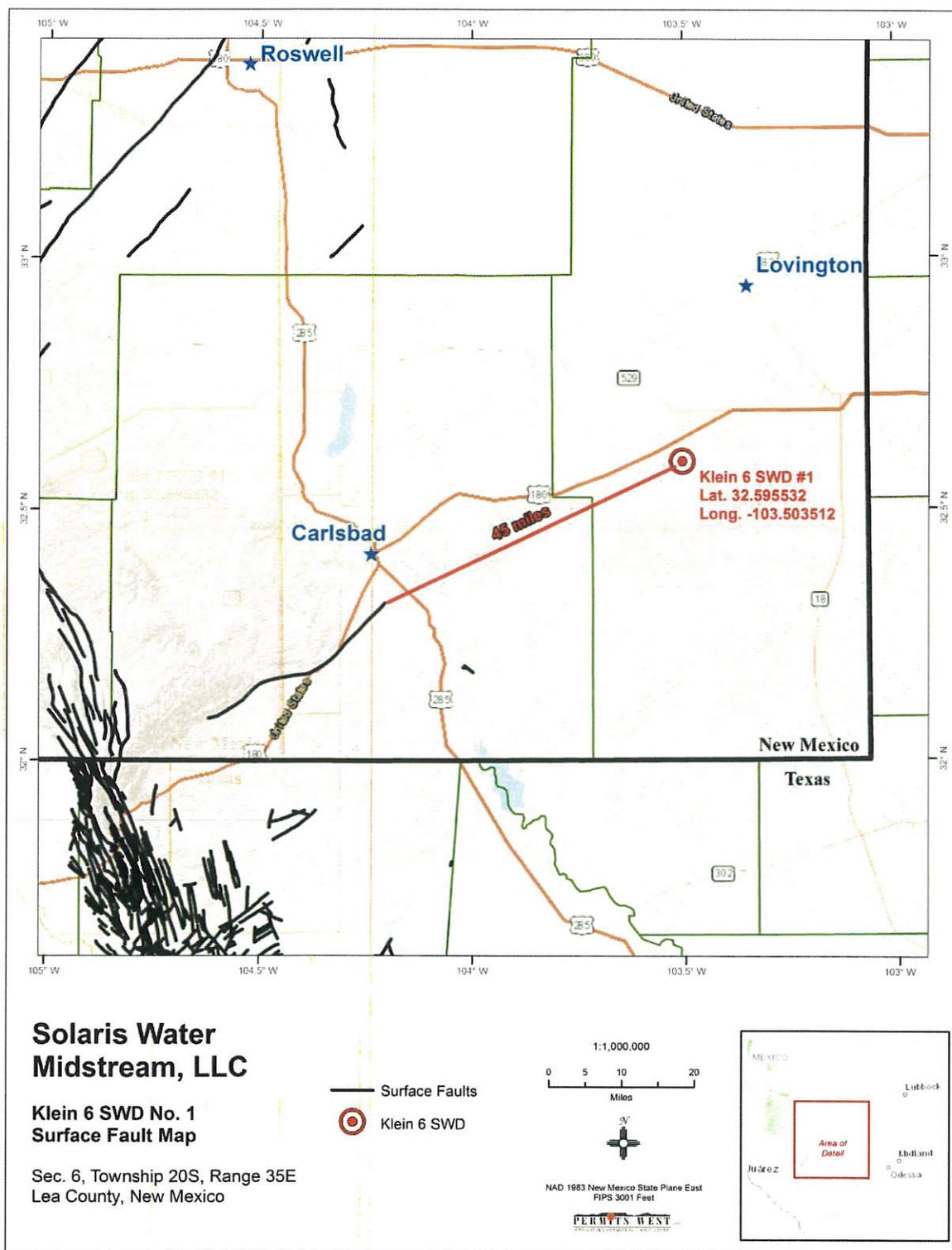


Figure 1. Shaded relief of the northwestern Permian Basin. Thick black lines represent locations of fault traces and show that the nearest faults to the proposed Klein 6 SWD #1 well lie ~45 miles away.

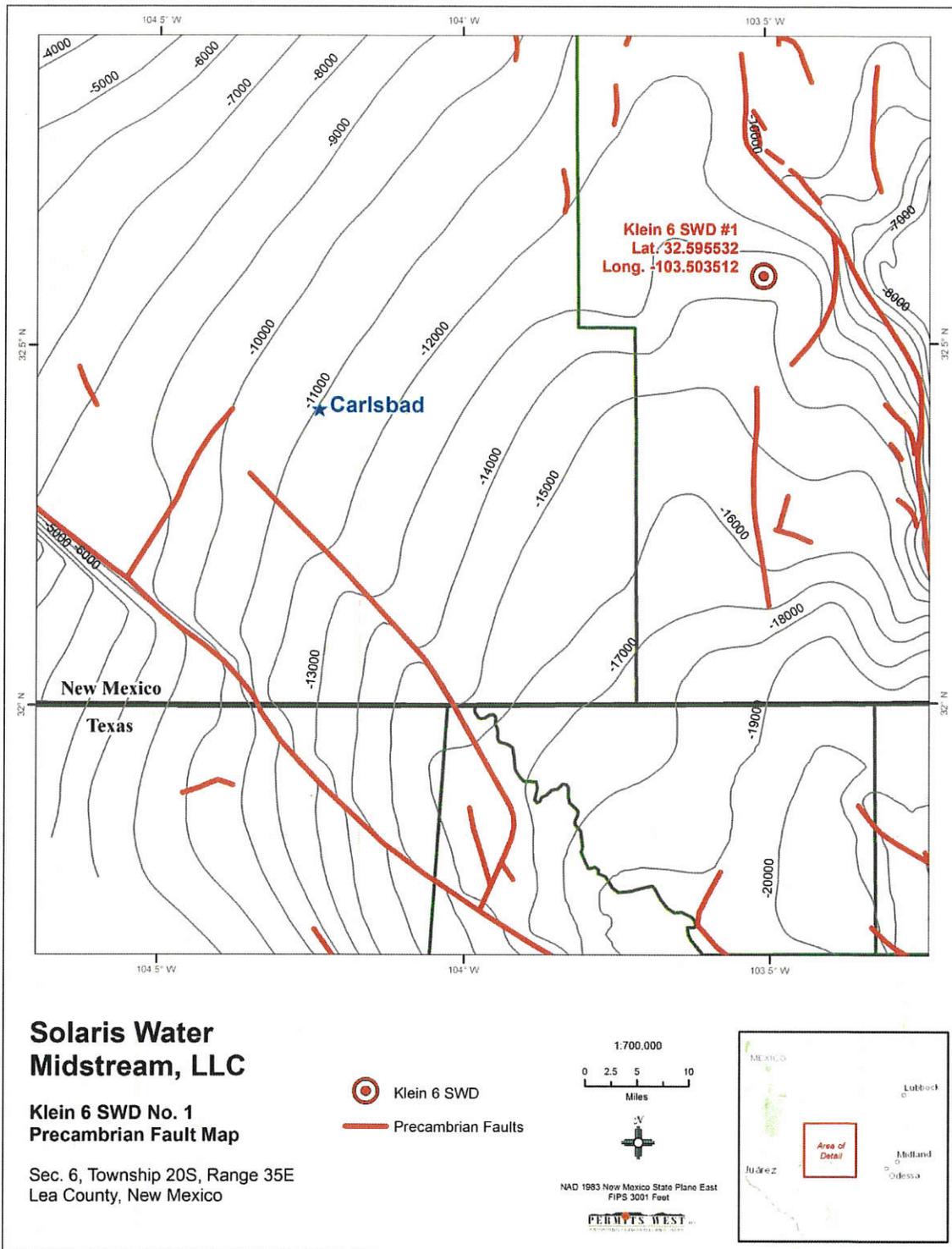


Figure 2. Structural contour map of the Precambrian basement in feet below sea level. Red lines represent the locations of Precambrian basement-penetrating faults (Ewing et al., 1990). Green lines represent county boundaries. The Klein 6 SWD #1 well lies ~7 miles NW of the closest deeply penetrating fault.

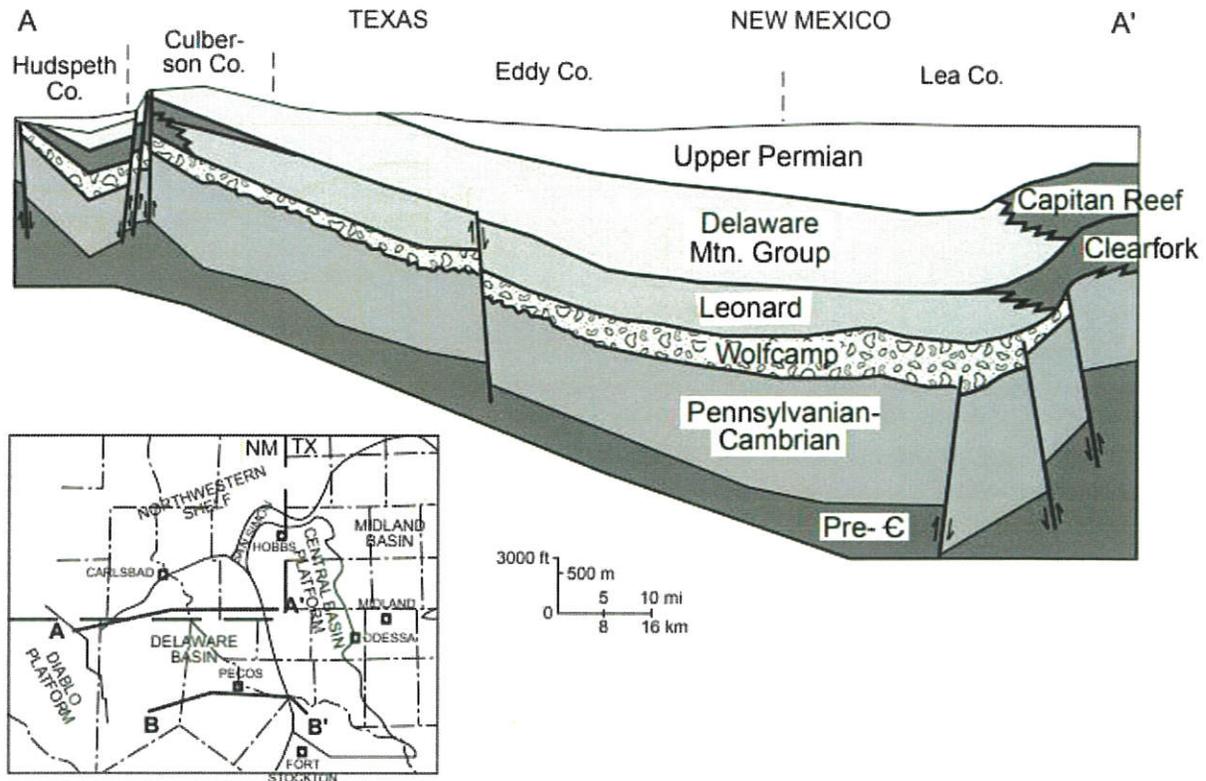


Figure 3. Cross section of the Permian Basin from Montgomery (1997). Notice the majority of basement faults only penetrate through the Leonard and deeper formations and therefore cannot act as conduits to the near surface potable water sources.



Table 1: Fault Slip Potential model input parameters

Faults	Value	Notes
Friction Coefficient	0.58	Ikari et al. (2011)
Dip Angle (deg)	70	Snee and Zoback (2018)
Stress		
Vertical stress gradient (psi/ft)	1.1	Hurd and Zoback (2012)
Max Horizontal Stress Direction (deg)	60	Snee and Zoback (2018)
Depth for calculations (ft)	16000	Proposed injection zone
Initial Reservoir Pressure Gradient (psi/ft)	0.7	calculated from mud wt (ppg) used in drilling at these depths
A Phi Parameter	0.65	Snee and Zoback (2018)
Reference Friction Coefficient	0.58	Ikari et al. (2011)
Hydrology		
Aquifer thickness (ft)	1500	Proposed injection zone
Porosity (%)	10	
Permeability (mD)	50	
Injection Rate (bbl/day)	40000	Maximum proposed injection rate

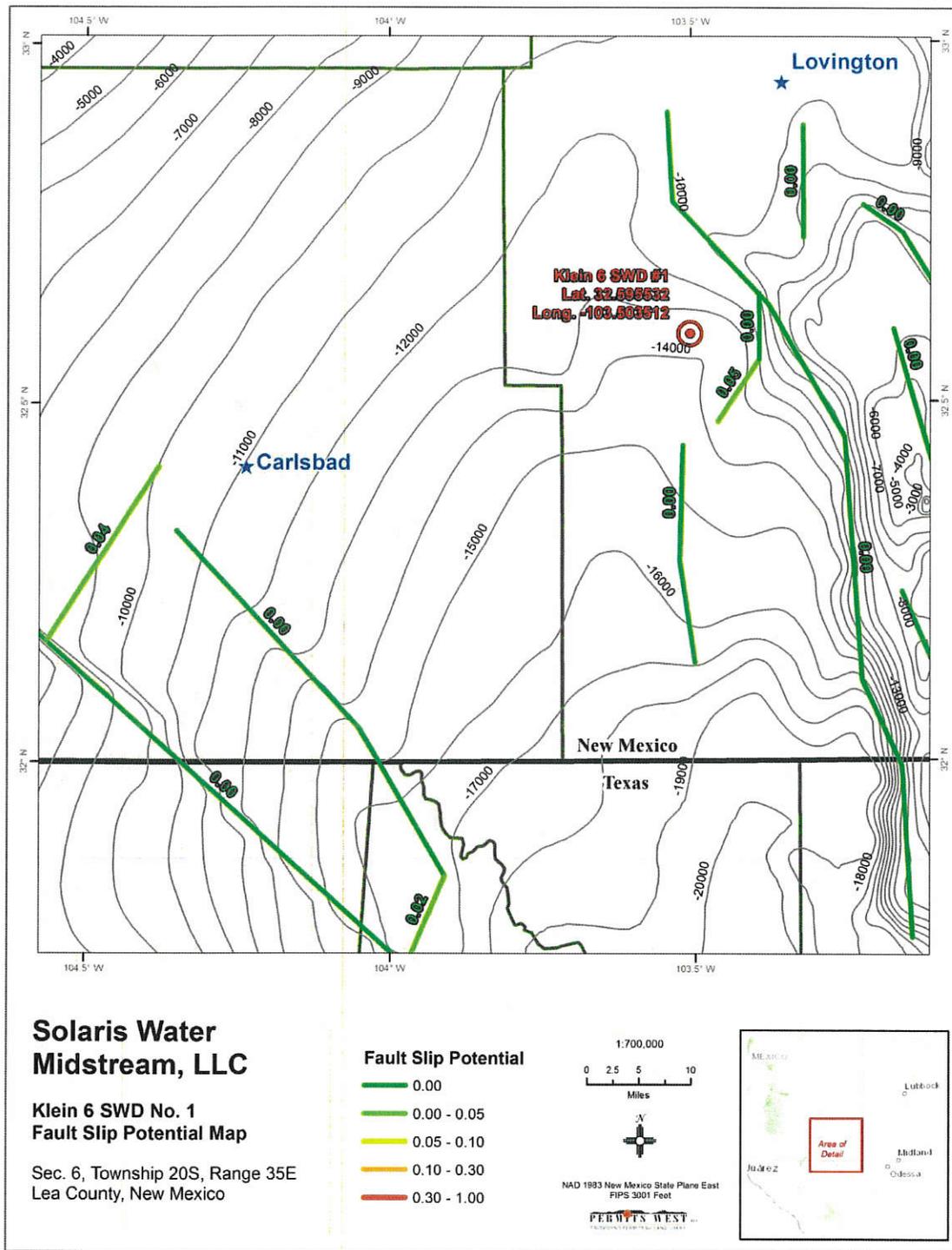
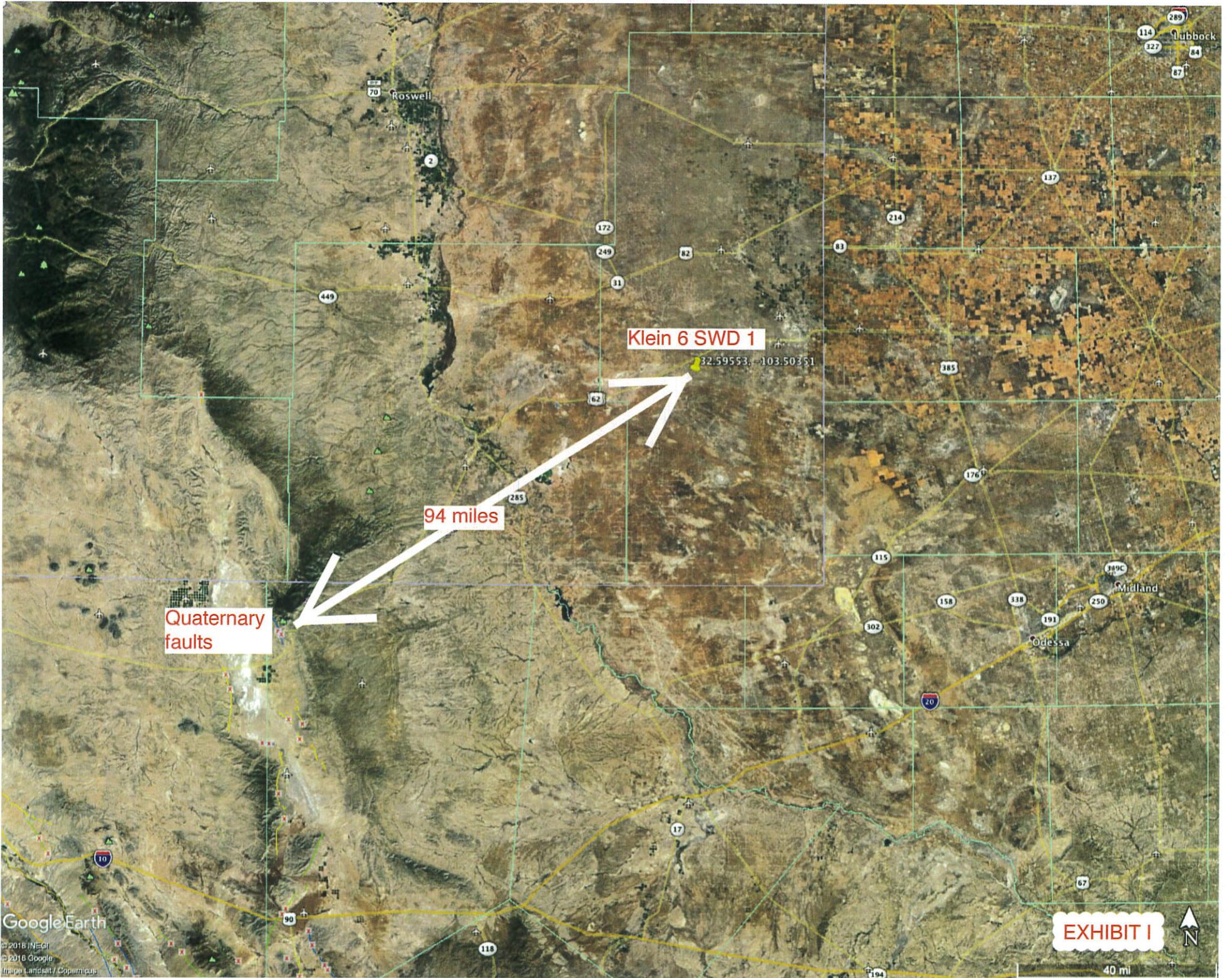


Figure 4. Precambrian fault map of southeastern New Mexico as mapped by Ewing et al. (1990). Faults are colored based on probability of fault slip as modeled using Fault Slip Potential software (Walsh and Zoback, 2016). Labeled values represent the calculated fault slip potential using the parameters indicated in Table 1. Contours show the top of the Precambrian basement in feet below sea level.

References Cited

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Quaternary faults

Klein 6 SWD 1

94 miles

32.59553, -103.50351

EXHIBIT I

40 mi

Google Earth

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Image Landsat / Copernicus

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
December 13, 2018
and ending with the issue dated
December 13, 2018.

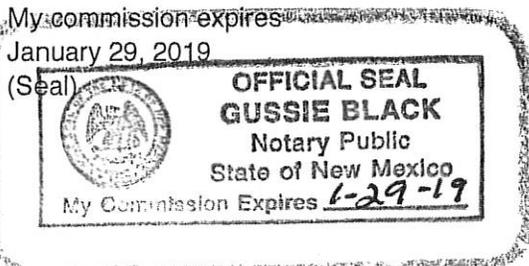


Publisher

Sworn and subscribed to before me this
13th day of December 2018.



Business Manager

My commission expires
January 29, 2019
(Seal)


**LEGAL NOTICE
DECEMBER 13, 2018**
Solaris Water Midstream, LLC is applying to drill the Klein 6 SWD 1 well as a saltwater disposal well. The well is staked at 236' FSL & 508' FWL, Sec. 6, T. 20 S., R. 35 E., Lea County, NM. This is 14 miles west-southwest of Monument, NM. It will inject water into the Devonian and Silurian (Fusselman) formations from 14,674' to 16,031'. Maximum disposal pressure = 2934 psi. Maximum disposal rate = 40,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120 #33532

02108485

00222169

BRIAN WOOD
PERMITS WEST
37 VERANO LOOP
SANTA FE, NM 87508

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

March 11, 2019

L & K Ranch LLC
PO Box 1503
Hibbs NM 88241

TYPICAL LETTER

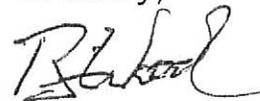
Solaris Water Midstrem, LLC is applying (see attached application) to drill its Klein 6 SWD 1 well as a saltwater disposal well (SWD). As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed SWD. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Klein 6 SWD 1 ID = 16,031'
Proposed Disposal Zone: Devonian & Silurian from 14,674' to 16,031'
Where: 236' FSL & 508' FWL Sec. 6, T. 20 S., R. 35 E., Lea County, NM
Approximate Location: 14 air miles west-northwest of Monument, NM
Applicant Name: Solaris Water Midstrem, LLC (432) 203-9020
Applicant's Address: 907 Tradewinds Blvd., Suite B, Midland, TX 79706

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. NMOCDp address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood