

ABOVE THIS LINE FOR DIVISION USE ONLY

*Need return receipt for surface owner & offered parcels*

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

*Run SWD test*

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_

*SWD 1646*  
 Lime Rock Resources 277558  
 Choate Davis 14 State SWD 2  
 30-015-43628  
 (replaces Feb. 2016 application)

*Pod*  
*-SWD, CISCO*  
*96099*

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or;
- [F]  Waivers are Attached

RECEIVED 000  
 2016 JUL 19 A 3

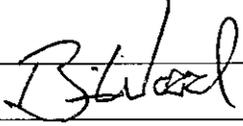
[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brian Wood		Consultant	7-18-16
Print or Type Name	Signature	Title	Date
		brian@permitswest.com	
		e-mail Address	

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance XXX Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: LIME ROCK RESOURCES II-A, L. P.  
ADDRESS: 1111 BAGBY, SUITE 4600, HOUSTON, TX 77002  
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  
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.  
Choate Davis 14 State SWD 2  
30-015-43628
- VII. Attach data on the proposed operation, including: SWD; CISCO
- Proposed average and maximum daily rate and volume of fluids to be injected;
  - Whether the system is open or closed;
  - Proposed average and maximum injection pressure;
  - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  - 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.).
- \*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: JULY 14 2016  
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.**

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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

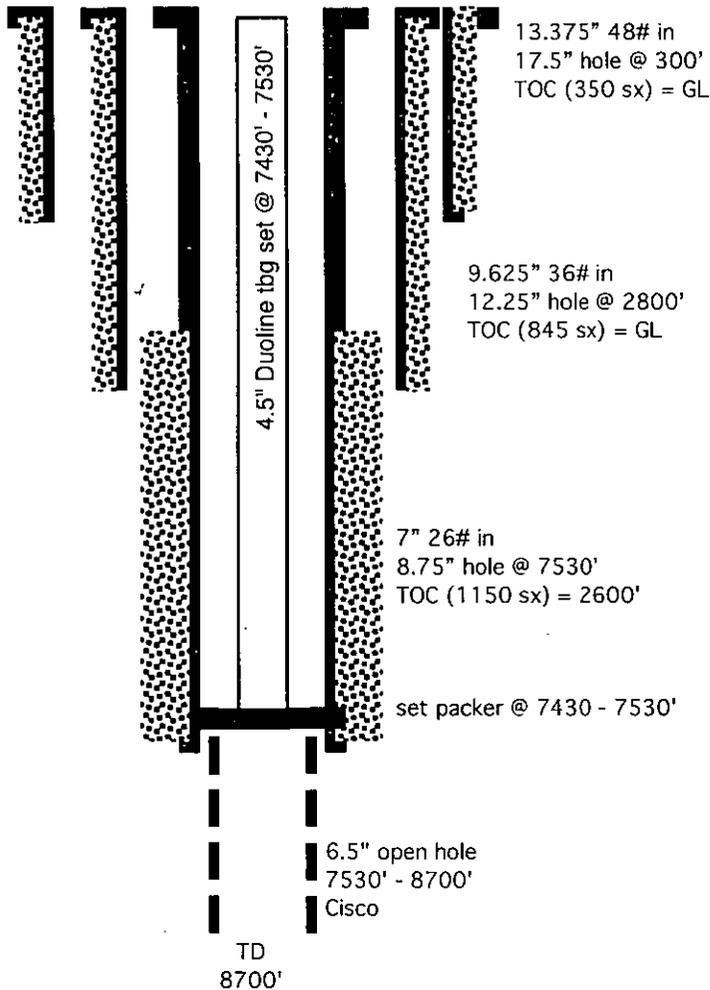
OPERATOR: LIME ROCK RESOURCES II-A, L. P.

WELL NAME & NUMBER: CHOATE DAVIS 14 STATE SWD 2

WELL LOCATION: 1760 FNL & 880 FWL                      E                      14                      18 S                      27 E  
 FOOTAGE LOCATION                      UNIT LETTER                      SECTION                      TOWNSHIP                      RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5"                      Casing Size: 13.375"  
 Cemented with: 350 sx.                      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: SURFACE                      Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25"                      Casing Size: 9.625"  
 Cemented with: 845 sx.                      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: SURFACE                      Method Determined: CIRCULATE

Production Casing

Hole Size: 8.75"                      Casing Size: 7"  
 Cemented with: 1150 sx.                      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: 2600'                      Method Determined: TEMP. SURVEY  
 Total Depth: 7530' for casing (8700' for well)

Injection Interval

7530 feet to 8700'

(~~Perforated~~ or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4.5" Lining Material: FIBERGLASS

Type of Packer: BAKER 85FA47

Packer Setting Depth: 7430' TO 7530'

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: CISCO
3. Name of Field or Pool (if applicable): SWD; CISCO (96099)
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. N/A (not yet drilled)  
\_\_\_\_\_
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_  
OVER: QUEEN (1000') & SAN ANDRES (1810')  
\_\_\_\_\_  
UNDER: STRAWN (8750') & MORROW (9550')  
\_\_\_\_\_

LIME ROCK RESOURCES II-A, L. P.  
CHOATE DAVIS 14 STATE SWD 2  
1760' FNL & 880' FWL SEC. 14, T. 18 S., R. 27 E.  
EDDY COUNTY, NEW MEXICO

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30-015-43628

I. Goal is to drill an 8700' deep Cisco saltwater disposal well (SWD; Cisco (code 96099)). Disposal interval will be 7530' - 8700'. Well will be for exclusive use of Lime Rock.

II. Operator: Lime Rock Resources II-A, L. P. (OGRID #277558)  
Operator phone number: (713) 292-9528  
Operator address: 1111 Bagby St., Suite 4600  
Houston, TX 77002  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease: NM State Land Office lease V0-9675-0000  
Lease: SWNW & NWSW Section 14, T. 18 S., R. 27 E.  
Lease Size: 80 acres (see Exhibit A for C-102 and maps)  
Closest Lease Line: 440'

A. (2) Surface casing (13.375", 48#, H-40) will be set at 300' in a 17.5" hole and cemented to the surface with 350 sacks.

Intermediate casing (9.625", 36#, J-55) will be set at 2800' in a 12.25" hole and cemented to the surface with 845 sacks.

Production casing (7", 26#, L-80) will be set at 7530' in an 8.75" hole and cemented to 2600' (200' overlap with intermediate casing) with 1150 sacks. A temperature survey will be run to verify cement top.

A 6.5" hole will be drilled to 8700' (TD) and left open hole.

A. (3) Tubing will be Duoline® (fiberglass lined) 4.5", 11.6#, L-80, LT&C. Setting depth will be  $\geq 7430'$ . (Open hole top will be at 7530'.)

- A. (4) A Baker 85FA47 packer or its equivalent will be set between 7430' and 7530' ( $\leq 100'$  above the open hole top of 7530').
- B. (1) Disposal zone will be the Cisco, which is in the SWD; Cisco Pool (OCD pool code number 96099).
- B. (2) Disposal interval will be 7530' to 8700', all open hole.
- B. (3) Well will be drilled as a saltwater disposal well.
- B. (4) All of the disposal interval (7530' - 8700') will be an open hole. Packer will be set between 7430' and 7530'.
- B. (5) Higher and lower potential oil or gas zones in the area of review are:

Queen (tested, but did not produce)  
San Andres (tested, but did not produce)  
*Proposed Disposal Interval: Cisco*  
Strawn (produced)  
Morrow (produced)

IV. This proposal is similar to Lime Rock's Choate Davis 14 State SWD 1 (30-015-40629). That saltwater disposal well (SWD-1352 & SWD-1352-A) is 3,004' southeast and has disposed of 4,606,213 barrels of water to date.

V. Exhibit B shows 2 existing wells (1 plugged & abandoned + 1 active gas well) within a half-mile radius. Both wells penetrated the Cisco. Exhibit C shows 292 existing wells (146 producing oil or gas + 131 plugged & abandoned + 13 water injectors or disposals + 2 water wells) within a two-mile radius.

Exhibit D shows all leases and lessors (only State and BLM) within a half-mile. Exhibit E shows all leases and lessors (only private, State, and BLM) within a two-mile radius. Details on the leases within a half-mile are:

LIME ROCK RESOURCES II-A, L. P.  
 CHOATE DAVIS 14 STATE SWD 2  
 1760' FNL & 880' FWL SEC. 14, T. 18 S., R. 27 E.  
 EDDY COUNTY, NEW MEXICO

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Aliquot Parts in Area of Review (T18S, R27E)	Lessor	Lease	Lessee(s) of Record
SESE Sec. 10	BLM	NMNM-029271	Apache
S2SW4 Sec. 11	BLM	NMNM-029272	Apache
SWSE Sec. 11	BLM	NMNM-051832	Abo, Myco, Oxy Y-1, & Yates Pet.
NWNE & SWSW Sec. 14	NMSLO	E0-5313-0000	Chevron
NWNE & SWSW Sec. 14	NMSLO	E0-5313-0003	Yates Pet.
N2NW4, NWSE, & E2SW4 Sec. 14	NMSLO	B1-0456-0006	Apache
SWNW & NWSW Sec. 14	NMSLO	V0-9675-0000	Dakota
SENE & SWNE Sec. 14	NMSLO	X0-0648-0131	Marathon
SENE & SWNE Sec. 14	NMSLO	X0-0648-0150	Khody
NE4, N2SE4, & SESE Sec. 15	BLM	NMNM-029272	Apache

VI. Both wells that are within a half-mile penetrated the Cisco. No production has occurred from the Cisco in the area of review. One of the penetrators is plugged and abandoned. A table abstracting construction details and history of the penetrators and a diagram of the plugged penetrator are in Exhibit F. The 3 existing wells that are within, or near, a half-mile (regardless of depth) are:

API	WHO	WELL	STATUS	UNIT-SECTION (T18S, R27E)	TVD	ZONE(S)	FEET FROM CHOATE DAVIS 14 STATE SWD 2
3001527448	Yates	Beauregard ANM State Com 001	P&A	L-14	10100	Red Lake; Atoka-Morrow	1,605

3001524857	Chevron	Federal DH Gas Com 001	G	M-11	11915	Scoggin Draw; Morrow & Strawn	2,448
3001500893	Resler	State 001	P&A	G-14	2575	Artesia; Queen- Grayburg- San Andres	2,730

- VII. 1. Average injection rate will be 15,000 bwpd.  
 Maximum injection rate will be 20,000 bwpd.
2. System will be closed.
3. Average injection pressure will be 1200 psi.  
 Maximum injection pressure will be 1506 psi (= 0.2 psi/foot x 7530' (top of open hole)).
4. Injection source will be produced water only from Lime Rock wells, mainly from the Queen, Grayburg, San Andres, Glorieta, and Yeso formations. Lime Rock has 464 oil wells in Eddy County. Water analyses are in Exhibit G. No compatibility problems have been reported from the Choate Davis 14 State SWD 1. Over 4,606,213 barrels from those same formations have been disposed into that well which is 3,004' southeast and has one (Cisco) of the same receiving zones as the proposed Choate Davis 14 State SWD 2.
5. There is no Cisco production within a >4 mile radius.

VIII. The Cisco consists of limestone and dolomite. Lost circulation and 20% porosity have been reported elsewhere in the basin.

Closest possible underground source of drinking water above the proposed disposal interval are the shallower red beds. Water sands were found from 225' to 228' and from 800' to 815' in a now P&A oil well (30-015-00893) test that is 2,730' east.

Three water wells are within a 2-mile radius according to the State Engineer (Exhibit H). Two are plugged and one could not be definitively found. Exhibit H contains photographs of the referenced water sources.

According to the State Engineer, closest water well (RA 04048) is 4303' southeast. It was drilled as an 1883' deep oil well (30-015-00894) in 1945, later converted to a water well, and subsequently plugged and abandoned in 1975. Water sands were found from 110' to 140' and from 1160' to 1185'.

Next closest (6546' northwest) water well (RA 03917) appears to be near a now P&A oil well (30-015-00853). The water well was completed 1 day before the oil well was spudded. The latter was drilled as a 6039' deep oil well in 1958 and plugged in 2003. State Engineer records indicate water was found at 50' in the 130' deep water well.

Only other water well (RA 02996) within 2 miles is 10,512' north. It was drilled as a 441' deep oil well (30-015-00739) in 1941. Water was found between 145' and 150'. It was P & A in 1948. It was re-entered in 1953 and used for domestic purposes. It was a plugged a second time and is now abandoned.

No other water wells were found during a January 28, 2015 field inspection. Chalk Bluff Spring, 1.7 miles southwest in the NE4 Section 21, was dry during the inspection. Closest water found during the inspection was a windmill 2-1/3 miles northeast in 7-18s-28e. No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Salado = 0'  
Seven Rivers = 405'  
Queen = 1000'  
San Andres = 1810'  
Glorieta = 3425'  
Yeso = 3620'  
Abo = 5055'  
Wolfcamp = 6500'  
*Cisco & top of disposal zone = 7530'*  
*bottom disposal zone & TD = 8700'*

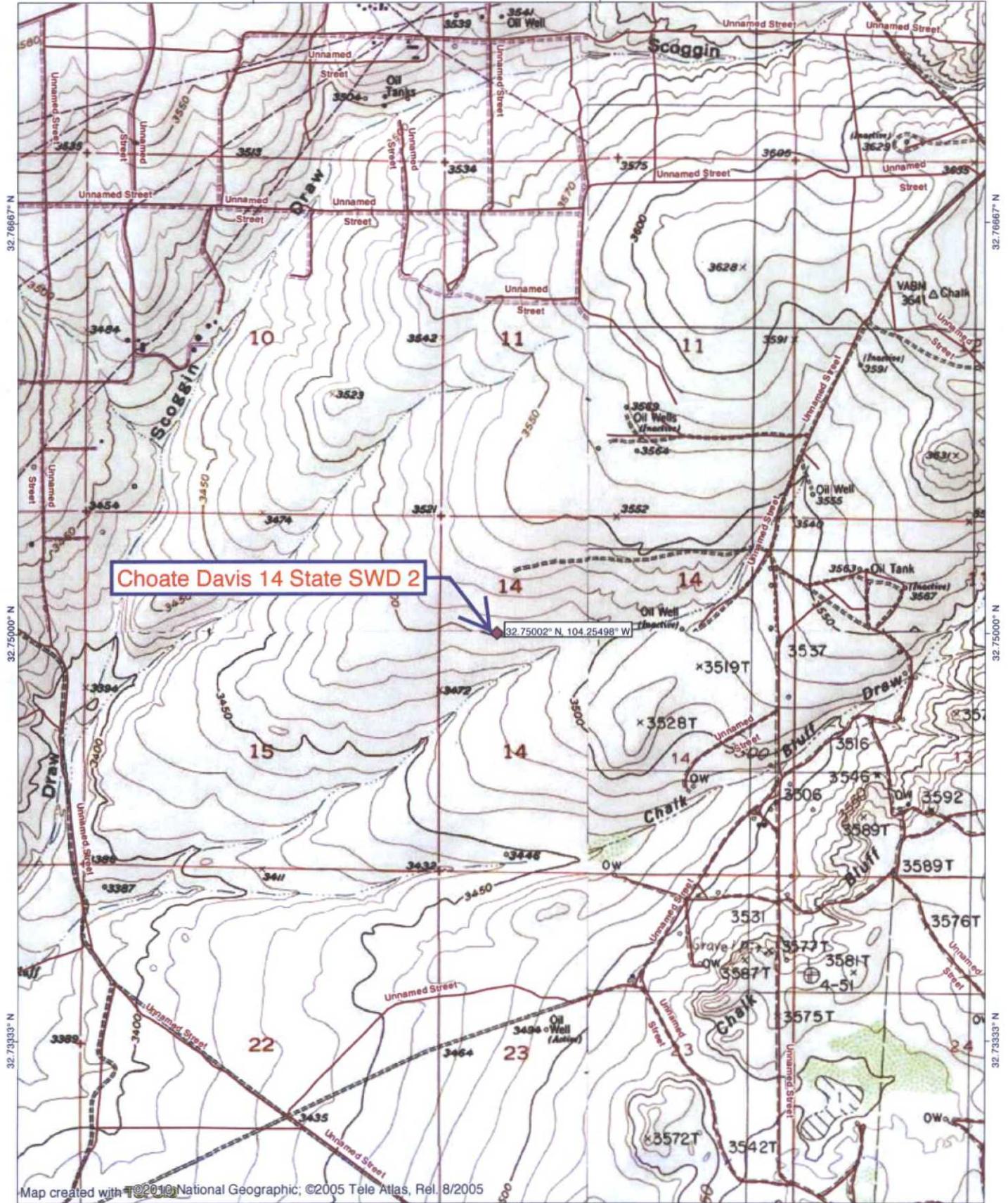
There will be >6000' of vertical separation between the bottom of the only possible underground water source (red beds) and the top of the Cisco. Produced water has been injected or disposed into zones (Queen, Grayburg, and San Andres) above the proposed disposal interval in 3 wells within a 1-mile radius.

LIME ROCK RESOURCES II-A, L. P.  
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- IX. The well will be stimulated with acid to clean out scale or fill.
- X. SGR-DLL-CDL-CNL quad combo logs will be run from 7530' (base long string) to 2800' (base intermediate) and from 8700' (TD) to 7530' (base long string) and filed with NMOCD.
- XI. According to the State Engineer's records and a January 28, 2015 field inspection, no active water wells are within a one-mile radius.
- XII. Lime Rock is not aware of any geologic or engineering data that may indicate that the Cisco is in hydrologic connection with any underground sources of water. Closest Quaternary fault is 54 miles southwest (Exhibit I). There are 49 saltwater disposal wells in the Cisco in New Mexico.
- XIII. A legal ad (see Exhibit J) was published on July 14, 2016. Notice (this application) has been sent (Exhibit K) to the surface owner (NM State Land Office), all oil and gas lessees (Abo Petroleum, Apache, Chevron USA, Dakota Resources, Khody Land & Minerals, Marathon Oil, MYCO Industries, Oxy Y-1, Yates (Martin), Yates Petroleum, & ZPZ) or operating right holders (Alamo, Anadarko, Chevron USA, COG, Dominion, Marbob, Mewbourne, Occidental Permian, Pitch Energy, RKI, RSE Partners, WPX, ZPZ), and all oil and gas lessors (only New Mexico State Land Office and BLM) within a half-mile.



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



**EXHIBIT A**

TN MN

7.5°

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
411 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-0720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3469 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

X AMENDED REPORT  
(pool change)

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-43628</b>	<sup>2</sup> Pool Code <b>96099</b>	<sup>3</sup> Pool Name <b>SWD; Cisco</b>
<sup>4</sup> Property Code <b>315992</b>	<sup>5</sup> Property Name <b>CHOATE DAVIS 14 STATE SWD</b>	
<sup>6</sup> OGRID No. <b>277558</b>	<sup>7</sup> Operator Name <b>LIME ROCK RESOURCES II-A, L.P.</b>	
		<sup>8</sup> Well Number <b>2</b>
		<sup>9</sup> Elevation <b>3495.4</b>

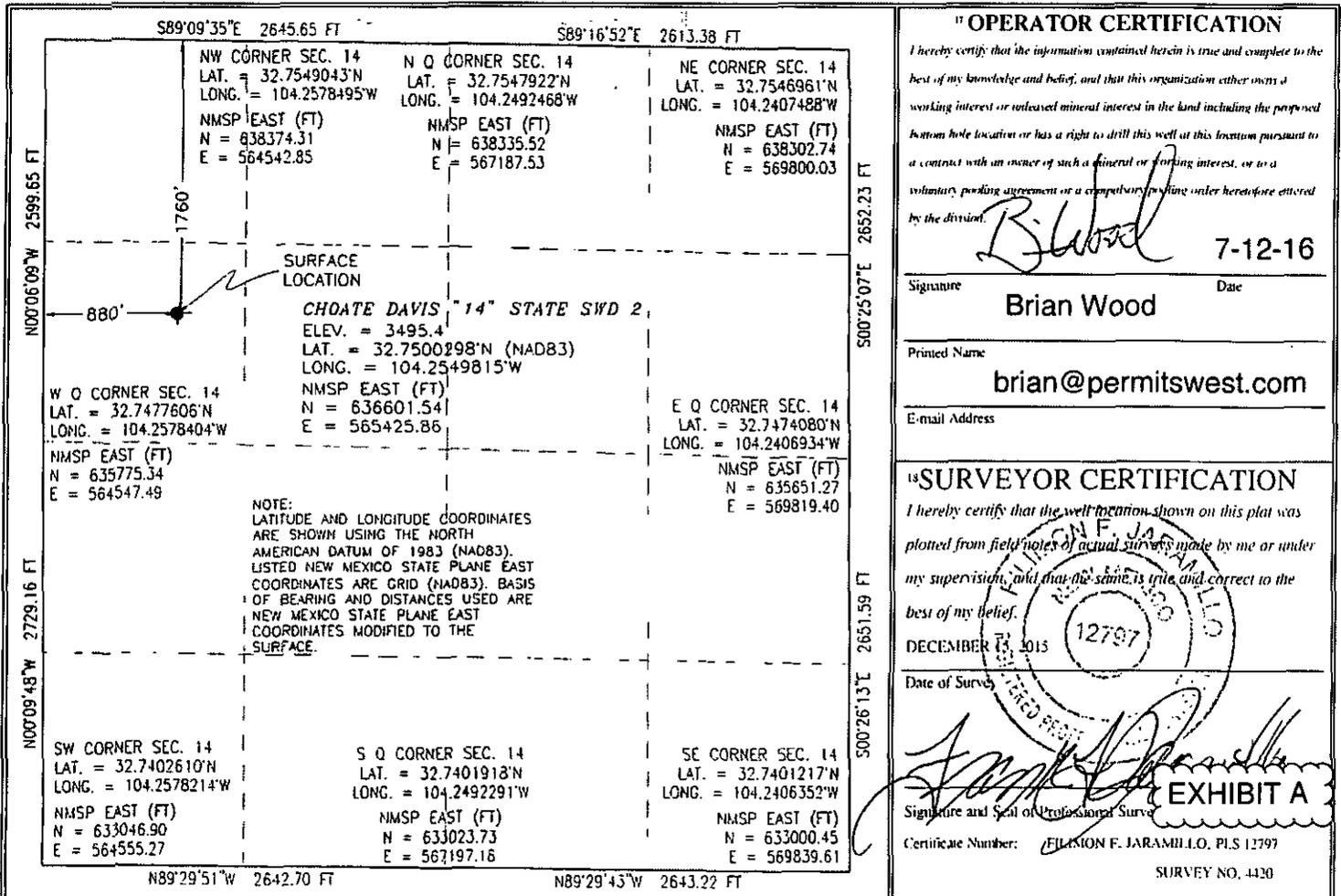
\* Surface Location

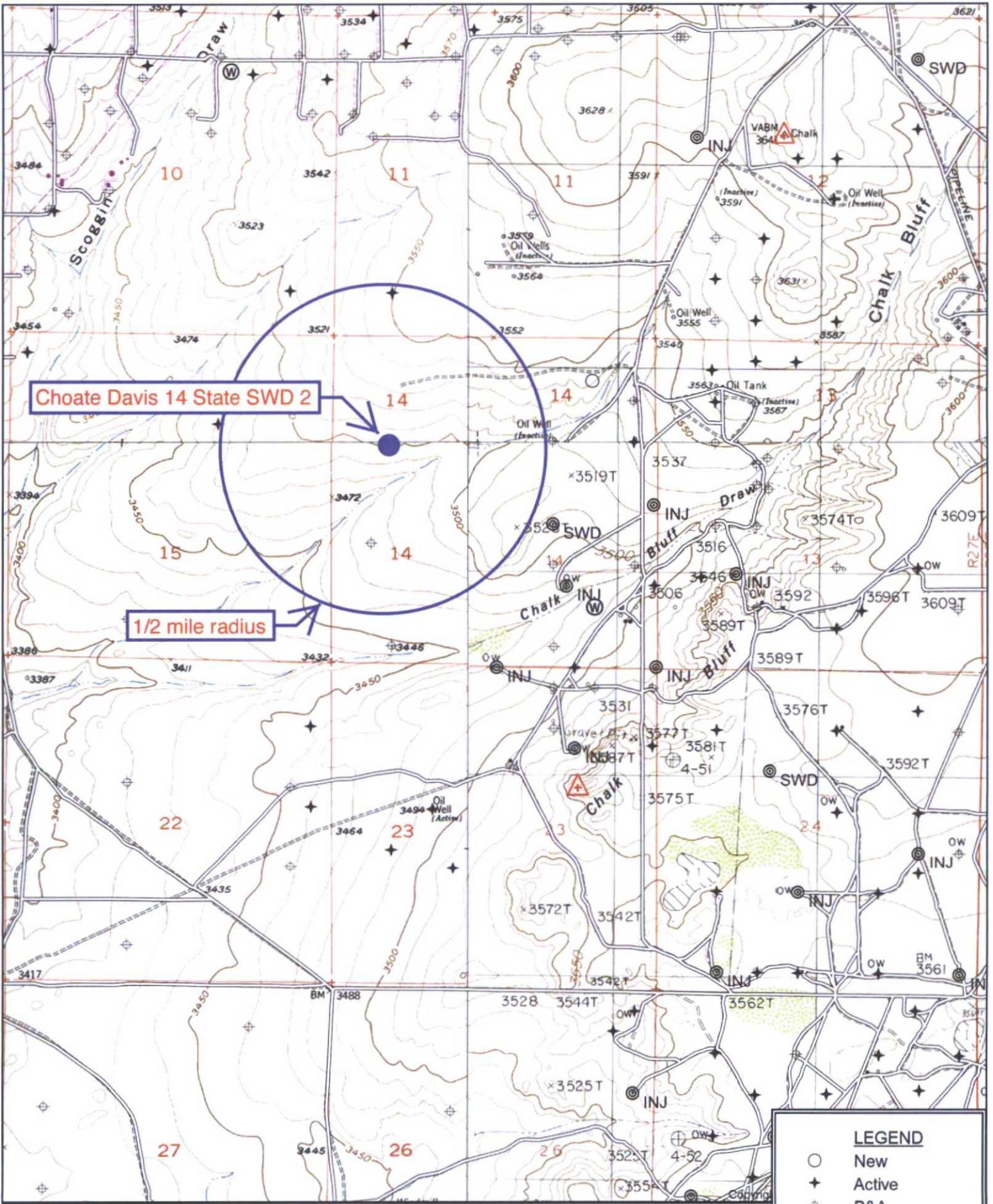
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	18 S	27 E		1760	NORTH	880	WEST	EDDY

" 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
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code			<sup>15</sup> Order No.				

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.





Choate Davis 14 State SWD 2

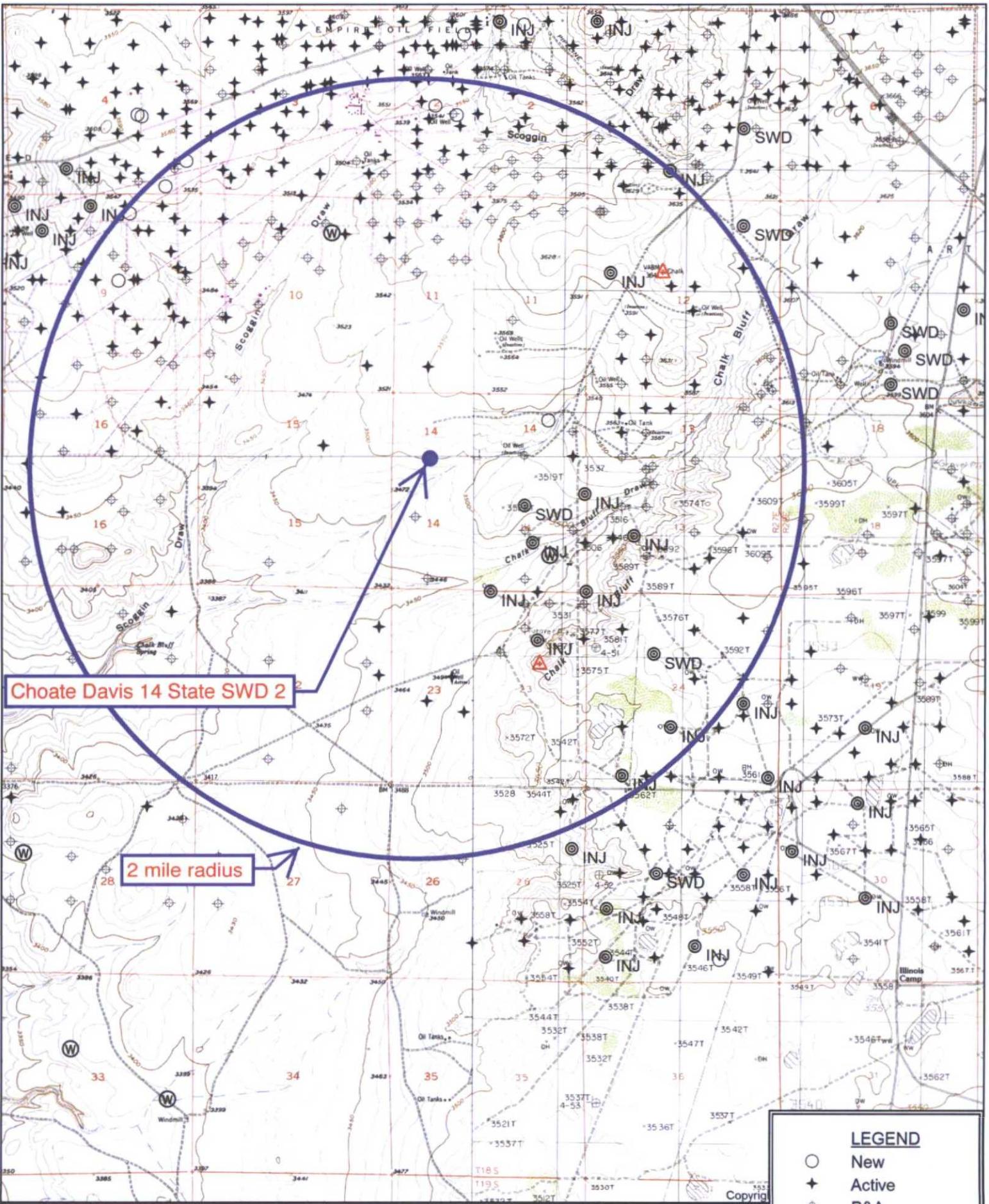
1/2 mile radius

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊕	Water

Quad: ILLINOIS CAMP  
Scale: 1 inch = 2,000 ft.

EXHIBIT B





Choate Davis 14 State SWD 2

2 mile radius

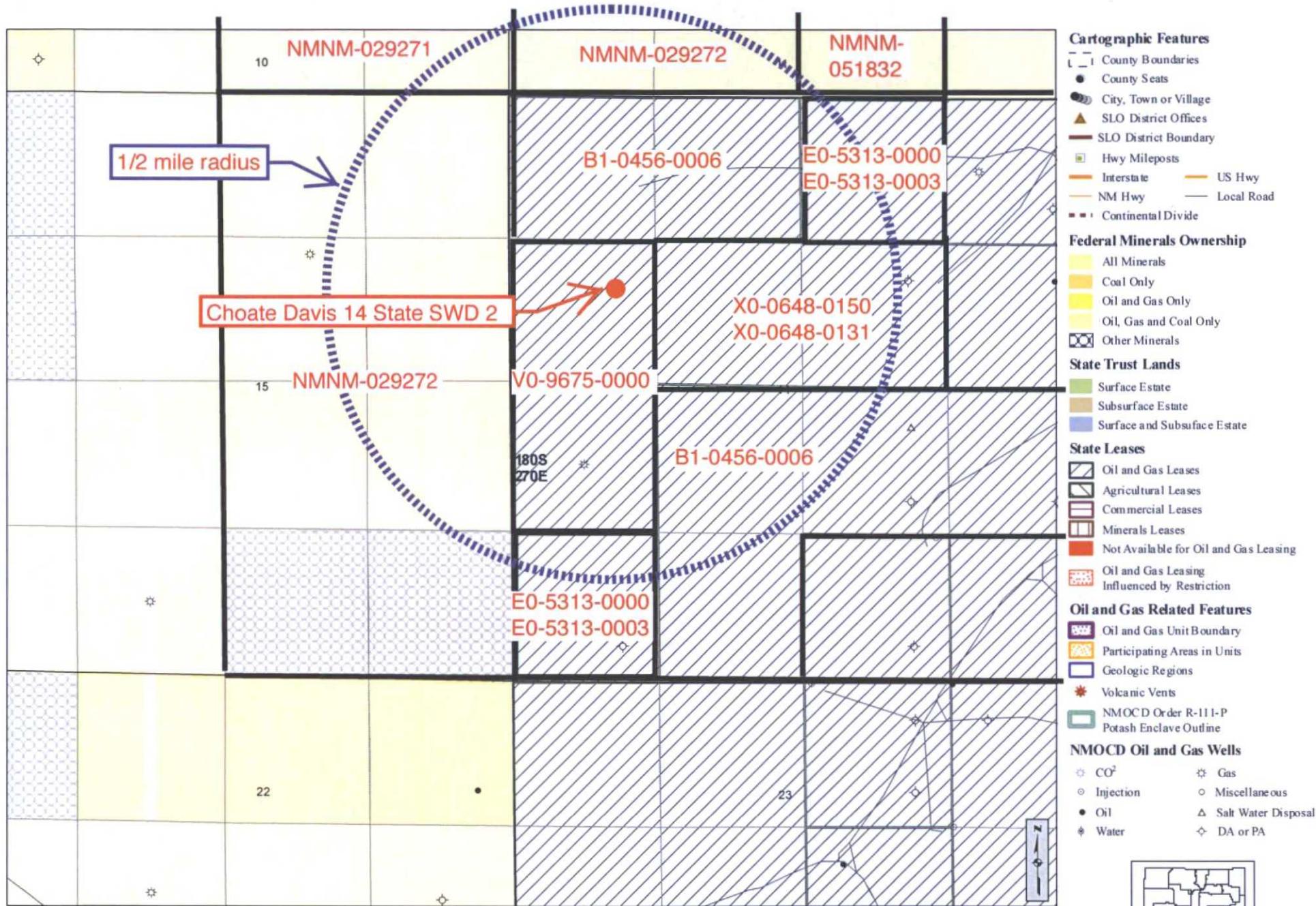
LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊙	Water



Quad: ILLINOIS CAMP  
Scale: 1 inch = 3,333 ft.

EXHIBIT C

Copyright



**New Mexico State Land Office  
Oil, Gas and Minerals**

0 0.05 0.1 0.2 0.3 0.4 Miles  
 Universal Transverse Mercator Projection, Zone 13  
 1983 North American Datum

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 here, in State Land Office data layers or any other data layer.

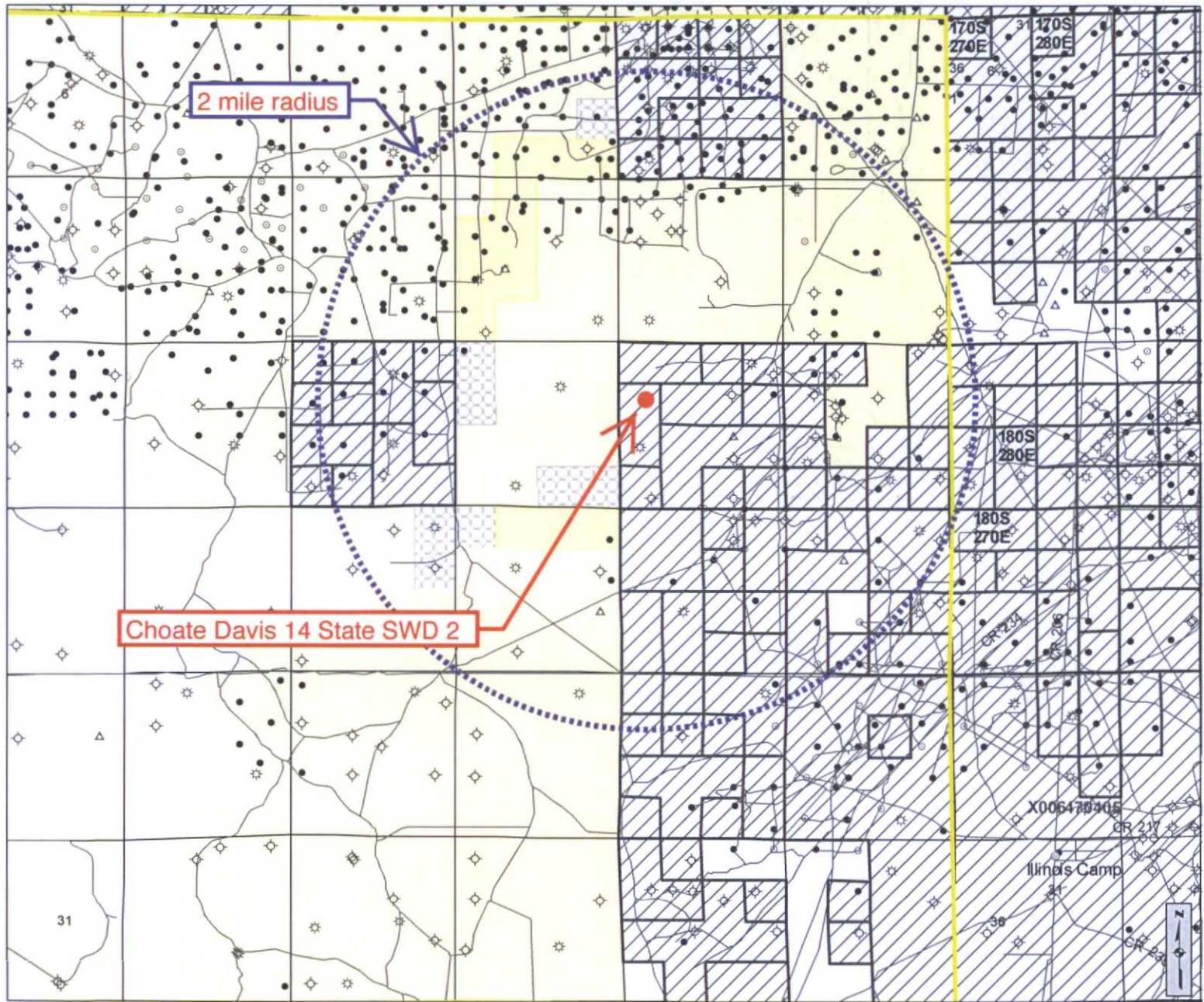
Land Office Geographic Information Center  
 logic@sls.state.nm.us

Created On: 2/7/2016 10:25:29 AM

**EXHIBIT D**



www.nmstatelands.org



**Cartographic Features**

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- NM Hwy
- Continental Divide
- US Hwy
- Local Road

**Federal Minerals Ownership**

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

**State Trust Lands**

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

**State Leases**

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

**Oil and Gas Related Features**

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOC Order R-111-P
- Potash Enclave Outline

**NMOC Oil and Gas Wells**

- CO<sub>2</sub>
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

**Choate Davis 14 State SWD 2**

**2 mile radius**

**New Mexico State Land Office  
Oil, Gas and Minerals**

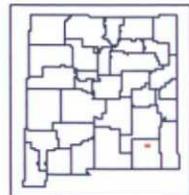
0 0.2 0.4 0.8 1.2 1.6 Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

*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 here, in State Land Office data layers or any other data layer.*

Land Office Geographic Information Center  
logic@sls.state.nm.us

Created On: 2/7/2016 10:22:08 AM

**EXHIBIT E**



www.nmstatelands.org

SORTED BY DISTANCE FROM CHOATE DAVIS 14 STATE SWD 2

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET	CEMENT	TOC	HOW DETERMINED
Beauregard ANM State Com 1	7/25/97	10100	Red Lake; Atoka-Morrow	P&A	26	20	40	redi-mix	GL	no report
3001527448					17.5	13.375	370	750 sx	GL	80' per TS, then top job
L-14 18S 27E					12.25	9.625	2190	850 sx	GL	Circ 130 sx
					8.75	7	7559	300 sx	(6620)	temp. survey
					6.125	4.5	10095	365 sx	7311	TOL
Federal DH Gas Com 1	5/19/88	11915	Scoggin Draw; Morrow & Strawn	G	26	20	33	3 yds	no report	no report
3001524857					17.5	13.375	502	700 sx	GL	Circ 270 sx
M-11 18S 27E					12.25	9.625	2200	1400 sx	GL	Circ 305 sx
					7.875	5.5	11915	2720 sx	GL	Circ 218 sx
State 1	11/26/48	2575	Artesia; Queen-Grayburg-San Andres	P&A	no report	10	264	no report	no report	no report
3001500893					no report	8	860	no report	no report	no report
G-14 18S 27E					no report	7	1700	no report	no report	no report

*Active*

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

**SAMPLE**

Co. : LimeRock Resources  
 Lease : Enron  
 Well No.: ST  
 Location:  
 Attention:

from  
 Glorieta-Yeso

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001-9  
 Salesperson :  
 File Name : Jul2810.001

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.138
- 3. CaCO3 Saturation Index

@ 80F -0.530 Negligible  
 @140F 0.410 Mild

**Dissolved Gasses**

- 4. Hydrogen Sulfide 100
- 5. Carbon Dioxide 80
- 6. Dissolved Oxygen Not Determined

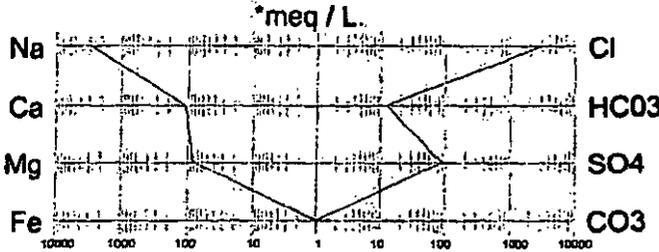
**Cations**

- |     |                           |  | MG/L.          | EQ. WT.  | *MEQ/L   |
|-----|---------------------------|--|----------------|----------|----------|
| 7.  | Calcium (Ca++)            |  | 2,166          | / 20.1 = | 107.76   |
| 8.  | Magnesium (Mg++)          |  | 971            | / 12.2 = | 79.59    |
| 9.  | Sodium (Na+) (Calculated) |  | 65,383         | / 23.0 = | 2,842.74 |
| 10. | Barium (Ba++)             |  | Not Determined |          |          |

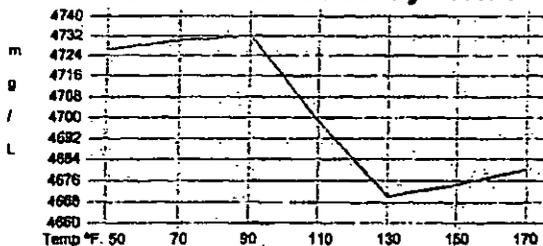
**Anions**

- |     |                                  |  |                |          |                    |
|-----|----------------------------------|--|----------------|----------|--------------------|
| 11. | Hydroxyl (OH-)                   |  | 0              | / 17.0 = | 0.00               |
| 12. | Carbonate (CO3=)                 |  | 0              | / 30.0 = | 0.00               |
| 13. | Bicarbonate (HCO3-)              |  | 714            | / 61.1 = | 11.69              |
| 14. | Sulfate (SO4=)                   |  | 4,200          | / 48.8 = | 86.07              |
| 15. | Chloride (Cl-)                   |  | 103,977        | / 35.5 = | 2,928.93           |
| 16. | Total Dissolved Solids           |  | 177,411        |          |                    |
| 17. | Total Iron (Fe)                  |  | 1.50           | / 18.2 = | 0.08               |
| 18. | Manganese (Mn++)                 |  | Not Determined |          |                    |
| 19. | Total Hardness as CaCO3          |  | 9,408          |          |                    |
| 20. | Resistivity @ 75 F. (Calculated) |  |                |          | 0.017 Ohm · meters |

**LOGARITHMIC WATER PATTERN**



**Calcium Sulfate Solubility Profile**



**PROBABLE MINERAL COMPOSITION**

COMPOUND.	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	11.89		81.04	947
CaSO4	86.07		68.07	5,858
CaCl2	10.01		55.50	556
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	79.59		47.62	3,790
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	2,839.33		58.46	165,987

\* milliequivalents per Liter

Tony Abernathy, Analyst

EXHIBIT G



# Pro-Kem WATER ANALYSIS REPORT

**SAMPLE**

Co.: Lime Rock Resources  
 Lease : Staley ST A  
 Well No.:  
 Location:  
 Attention:

from  
 Glorieta-Yeso

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.003- 5  
 Salesperson :  
 File Name : Jul2810.003

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.118
- 3. CACO3 Saturation Index @ 80F  
@140F

-0.204 Negligible  
 0.716 Moderate

**Dissolved Gasses**

- 4. Hydrogen Sulfide MG/L. 80
- 5. Carbon Dioxide 160
- 6. Dissolved Oxygen Not Determined

MG/L.                      EQ. WT.                      \*MEQ/L

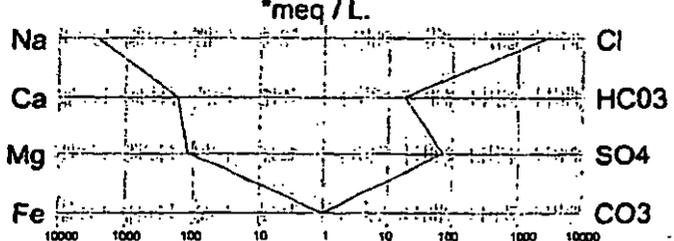
**Cations**

- 7. Calcium (Ca++) 3,391 / 20.1 = 168.71
- 8. Magnesium (Mg++) 1,371 / 12.2 = 112.38
- 9. Sodium (Na+) (Calculated) 58,430 / 23.0 = 2,540.44
- 10. Barium (Ba++) Not Determined

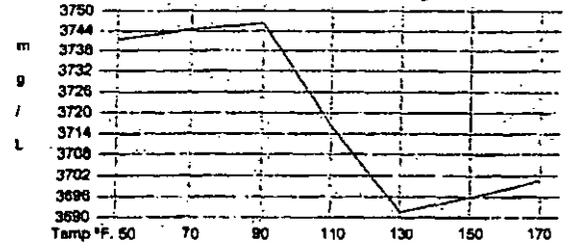
**Anions**

- 11. Hydroxyl (OH-) 0 / 17.0 = 0.00
- 12. Carbonate (CO3=) 0 / 30.0 = 0.00
- 13. Bicarbonate (HCO3-) 1,060 / 61.1 = 17.35
- 14. Sulfate (SO4=) 3,400 / 48.8 = 69.67
- 15. Chloride (Cl-) 96,978 / 35.5 = 2,731.77
- 16. Total Dissolved Solids 164,630
- 17. Total Iron (Fe) 18.00 / 18.2 = 0.99
- 18. Manganese (Mn++) Not Determined
- 19. Total Hardness as CaCO3 14,113
- 20. Resistivity @ 75 F. (Calculated) 0.027 Ohm · meters

**LOGARITHMIC WATER PATTERN**



**Calcium Sulfate Solubility Profile**



**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	17.35		81.04		1,406
CaSO4	69.67		68.07		4,743
CaCl2	81.69		55.50		4,534
Mg(HCO3)2	0.00		73.17		0
MgSO4	0.00		60.19		0
MgCl2	112.38		47.62		5,351
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	2,537.71		58.46		148,355

\* milliequivalents per Liter

Tony Abernathy, Analyst

EXHIBIT G

# Pro-Kem WATER ANALYSIS REPORT

**SAMPLE**

Co. : Lime Rock Resources  
 Lease : Staley ST  
 Well No.:  
 Location:  
 Attention:

from  
 Glorieta-Yeso

Date Sampled : 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.003- 4  
 Salesperson :  
 File Name : Jul2810.003

**ANALYSIS**

- 1. Ph 5.500
- 2. Specific Gravity 60/60 F. 1.178
- 3. CACO3 Saturation Index @ 80F -2.905 Negligible  
@140F -1.145 Negligible

**Dissolved Gasses**

- 4. Hydrogen Sulfide 0
- 5. Carbon Dioxide 0
- 6. Dissolved Oxygen Not Determined

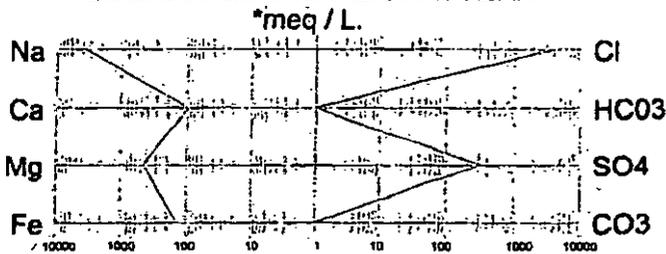
**Cations**

- |     |           |        |              |                |          |          |
|-----|-----------|--------|--------------|----------------|----------|----------|
| 7.  | Calcium   | (Ca++) |              | 1,884          | / 20.1 = | 93.73    |
| 8.  | Magnesium | (Mg++) |              | 5,371          | / 12.2 = | 440.25   |
| 9.  | Sodium    | (Na+)  | (Calculated) | 80,438         | / 23.0 = | 3,497.30 |
| 10. | Barium    | (Ba++) |              | Not Determined |          |          |

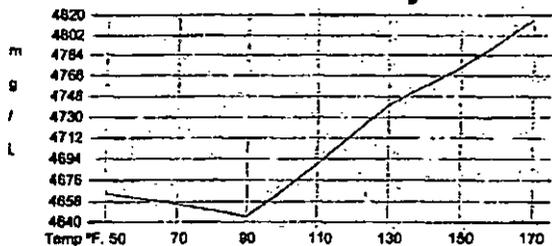
**Anions**

- |     |                                  |         |  |                |          |                  |
|-----|----------------------------------|---------|--|----------------|----------|------------------|
| 11. | Hydroxyl                         | (OH-)   |  | 0              | / 17.0 = | 0.00             |
| 12. | Carbonate                        | (CO3=)  |  | 0              | / 30.0 = | 0.00             |
| 13. | Bicarbonate                      | (HCO3-) |  | 0              | / 61.1 = | 0.00             |
| 14. | Sulfate                          | (SO4=)  |  | 15,000         | / 48.8 = | 307.38           |
|     | Chloride                         | (Cl-)   |  | 131,970        | / 35.5 = | 3,717.46         |
| 16. | Total Dissolved Solids           |         |  | 234,663        |          |                  |
| 17. | Total Iron                       | (Fe)    |  | 2,500.00       | / 18.2 = | 137.36           |
| 18. | Manganese                        | (Mn++)  |  | Not Determined |          |                  |
| 19. | Total Hardness as CaCO3          |         |  | 26,814         |          |                  |
| 20. | Resistivity @ 75 F. (Calculated) |         |  |                |          | 0.001 Ohm·meters |

**LOGARITHMIC WATER PATTERN**



**Calcium Sulfate Solubility Profile**



**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	0.00		81.04		0
CaSO4	93.73		68.07		6,380
CaCl2	0.00		55.50		0
Mg(HCO3)2	0.00		73.17		0
MgSO4	213.65		60.19		12,859
MgCl2	226.60		47.62		10,791
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	3,490.86		58.46		204,076

\* milliequivalents per Liter

\_\_\_\_\_  
 Tony Abernathy, Analyst

EXHIBIT G

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

**SAMPLE**

Oil Co.: LimeRock Resources  
 Lease: Jeffery 01  
 Well No.: ST  
 Location:  
 Attention:

from Queen,  
 Grayburg,  
 San Andres

Date Sampled: 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001-8  
 Salesperson:  
 File Name: Jul2810.001

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.133
- 3. CaCO3 Saturation Index @ 80F
- @140F

-0.527 Negligible  
 0.463 Mild

Dissolved Gasses

- 4. Hydrogen Sulfide MG/L. 0
- 5. Carbon Dioxide 90
- 6. Dissolved Oxygen Not Determined

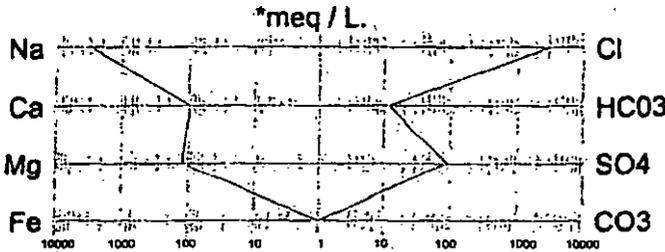
Cations

- |     |           |        |              |                |   |        |          |
|-----|-----------|--------|--------------|----------------|---|--------|----------|
| 7.  | Calcium   | (Ca++) |              | 1,884          | / | 20.1 = | 93.73    |
| 8.  | Magnesium | (Mg++) |              | 1,428          | / | 12.2 = | 117.05   |
| 9.  | Sodium    | (Na+)  | (Calculated) | 67,431         | / | 23.0 = | 2,931.78 |
| 10. | Barium    | (Ba++) |              | Not Determined |   |        |          |

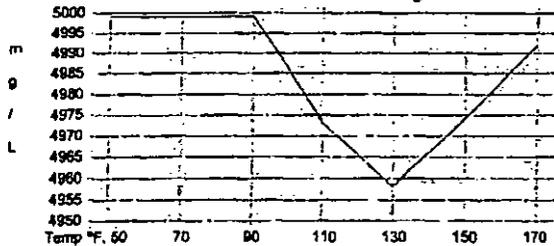
Anions

- |     |                                  |         |  |                |   |        |                    |
|-----|----------------------------------|---------|--|----------------|---|--------|--------------------|
| 11. | Hydroxyl                         | (OH-)   |  | 0              | / | 17.0 = | 0.00               |
| 12. | Carbonate                        | (CO3=)  |  | 0              | / | 30.0 = | 0.00               |
| 13. | Bicarbonate                      | (HCO3-) |  | 703            | / | 61.1 = | 11.51              |
| 14. | Sulfate                          | (SO4=)  |  | 4,200          | / | 48.8 = | 86.07              |
| 5.  | Chloride                         | (Cl-)   |  | 107,976        | / | 35.5 = | 3,041.58           |
| 16. | Total Dissolved Solids           |         |  | 183,622        |   |        |                    |
| 17. | Total Iron                       | (Fe)    |  | 1.50           | / | 18.2 = | 0.08               |
| 18. | Manganese                        | (Mn++)  |  | Not Determined |   |        |                    |
| 19. | Total Hardness as CaCO3          |         |  | 10,584         |   |        |                    |
| 20. | Resistivity @ 75 F. (Calculated) |         |  |                |   |        | 0.012 Ohm · meters |

**LOGARITHMIC WATER PATTERN**



**Calcium Sulfate Solubility Profile**



**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	11.51		81.04		932
CaSO4	82.23		68.07		5,597
CaCl2	0.00		55.50		0
Mg(HCO3)2	0.00		73.17		0
MgSO4	3.84		60.19		231
MgCl2	113.21		47.62		5,391
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	2,928.37		58.46		171,192

\* milliequivalents per Liter

Tony Abernathy, Analyst

EXHIBIT G

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

**SAMPLE**

Co.: LimeRock Resources from Queen,  
 Lease: Jeffery 36 Grayburg,  
 Well No.: ST San Andres  
 Location:  
 Attention:

Date Sampled: 15-July-2010  
 Date Analyzed: 28-July-2010  
 Lab ID Number: Jul2810.001-7  
 Salesperson:  
 File Name: Jul2810.001

**ANALYSIS**

- 1. Ph 5.600
- 2. Specific Gravity 60/60 F. 1.143
- 3. CaCO3 Saturation Index @ 80F
- @ 140F

-0.400 Negligible  
 0.590 Mild

**Dissolved Gasses**

- 4. Hydrogen Sulfide MG/L. 30
- 5. Carbon Dioxide 100
- 6. Dissolved Oxygen Not Determined

MG/L.      EQ. WT.      \*MEQ/L

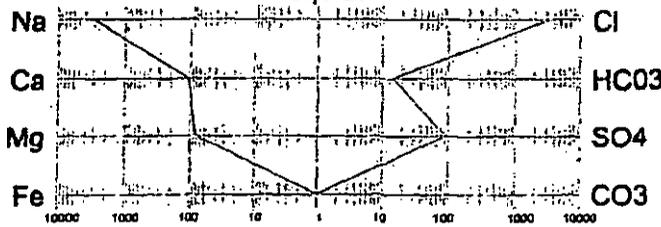
**Cations**

- 7. Calcium (Ca++) 2,072 / 20.1 = 103.08
- 8. Magnesium (Mg++) 971 / 12.2 = 79.59
- 9. Sodium (Na+) (Calculated) 69,530 / 23.0 = 3,023.04
- 10. Barium (Ba++) Not Determined

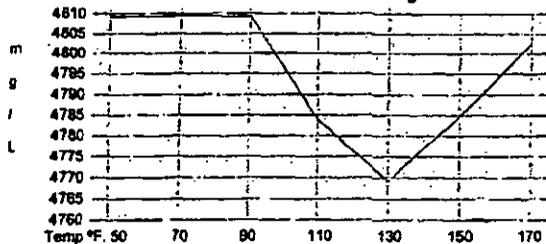
**Anions**

- 11. Hydroxyl (OH-) 0 / 17.0 = 0.00
- 12. Carbonate (CO3=) 0 / 30.0 = 0.00
- 13. Bicarbonate (HCO3-) 857 / 61.1 = 14.03
- 14. Sulfate (SO4=) 4,400 / 48.8 = 90.16
- 15. Chloride (Cl-) 109,975 / 35.5 = 3,097.89
- 16. Total Dissolved Solids 187,805
- 17. Total Iron (Fe) 1.00 / 18.2 = 0.05
- 18. Manganese (Mn++) Not Determined
- 19. Total Hardness as CaCO3 9,173
- 20. Resistivity @ 75 F. (Calculated) 0.009 Ohm · meters

**LOGARITHMIC WATER PATTERN**  
 \*meq / L.



**Calcium Sulfate Solubility Profile**



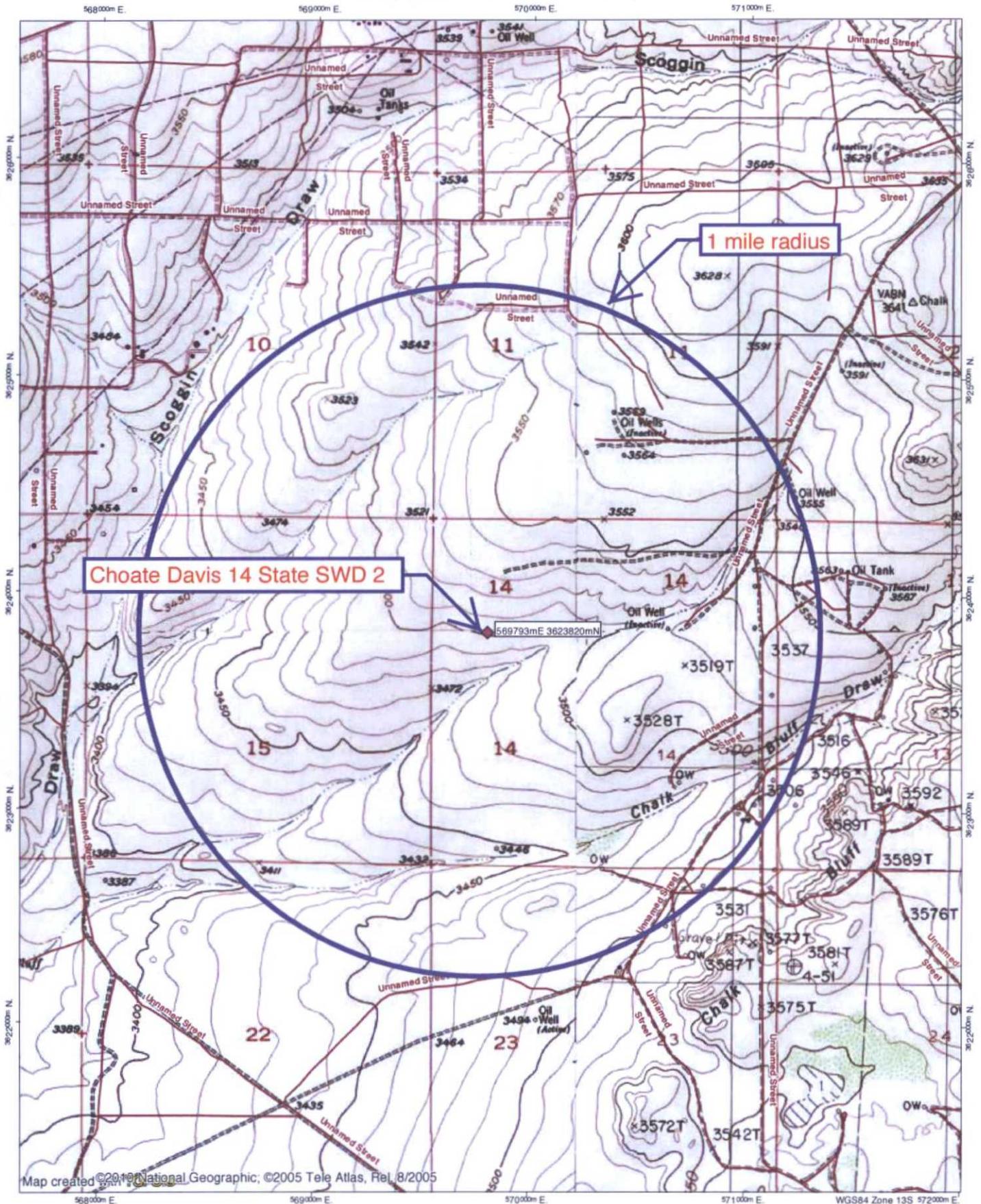
**PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	14.03		81.04		1,137
CaSO4	89.06		68.07		6,062
CaCl2	0.00		55.50		0
Mg(HCO3)2	0.00		73.17		0
MgSO4	1.11		60.19		67
MgCl2	78.48		47.62		3,737
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	3,019.40		58.46		176,514

\* milliequivalents per Liter

Tony Abernathy, Analyst

EXHIBIT G



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



EXHIBIT H

TN+MN

7.5°

02/08/16



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	q q q				X	Y	Distance			
								Source	64164	Sec	Tws				Rng		
04048		OBS		0 INC. WESTERN OIL FIELDS	LE	RA 04048	1610 meters = 5280 feet	Artesian	1	4	4	14	18S	27E	570841	3623030*	1312
03917		PRO		0 PAN AMERICAN PETROLEUM CORP.	LE	RA 03917		Artesian	4	1	2	10	18S	27E	569019	3625660*	1996
02996		DOM		3 PATON BROTHERS	ED	RA 02996			2	3	1	02	18S	27E	569808	3627025*	3205

Record Count: 3

**UTMNAD83 Radius Search (in meters):**

Easting (X): 569793

Northing (Y): 3623820

Radius: 3220

Sorted by: Distance

EXHIBIT H

\* Location was derived from PLSS - see Help

This 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.



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column	
RA 04048			LE	1	4	4	14	18S	27E	570841	3623030*	1312	2096		
		<b>1610 meters</b>													
RA 03917			LE	4	1	2	10	18S	27E	569019	3625660*	1996	130	50 80	
		<b>= 5280 feet</b>													

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count: 2

**UTMNAD83 Radius Search (in meters):**

Easting (X): 569793

Northing (Y): 3623820

Radius: 3220

EXHIBIT H

\*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.



Well RA 04048, aka 30-015-00894 on Feb. 10, 2016



Well 30-015-00853 at RA 03917 on Feb. 10, 2016

EXHIBIT H



Well RA 02996, aka 30-015-00739 on Feb. 10, 2016



Chalk Bluff Spring (dry) in 21-18s-27e on Jan. 28, 2016

Form C-108

**Affirmative Statement**

**Lime Rock Resources II-A, L.P.**

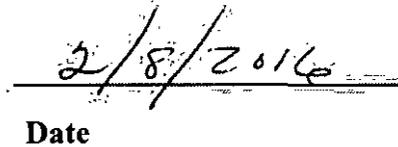
**Choate-Davis 14 State Com No. 2 SWD**

**Section 14, T-18 South, R- 27 East , NMPM**

**Eddy, County, New Mexico**

**Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.**

  
\_\_\_\_\_  
Stanley Bishop

  
\_\_\_\_\_  
Date

**Geologist**

**Lime Rock Resources II-A, L.P.**

EXHIBIT I



32.7500, -104.2549  
**Choate Davis 14  
State SWD 2**

**54 miles**

**Guadalupe  
Fault**

**EXHIBIT I**

20 mi

Google earth  
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# Affidavit of Publication

No. 24003

State of New Mexico

County of Eddy:

**Danny Scott**

**Publisher**

being duly sworn says that she is the

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

### Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication	July 14, 2016
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	

Subscribed and sworn before me this 14th day of July 2016



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine  
Notary Public, Eddy County, New Mexico

# Copy of Publication:

### LEGAL NOTICE

Lime Rock Resources II-A, L. P. will apply to drill the Choate Davis 14 State SWD 2 as a saltwater disposal well. The well will dispose into the Cisco formation from 7,530' to 8,700'. It is staked 10 miles southeast of Artesia, NM at 1760 FNL & 880 FWL Sec. 14, T. 18 S., R. 27 E., Eddy County, NM. Maximum disposal rate will be 20,000 bwpd. Maximum injection pressure will be 1,506 psi. 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.  
Published in the Artesia Daily Press, Artesia, N.M., July 14, 2016 Legal No: 24003.

EXHIBIT J

  
**PERMITS WEST**, INC.  
 PROVIDING PERMITS for LAND USERS  
 37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

July 14, 2016

NM State Land Office  
 PO Box 1148  
 Santa Fe NM 87504

**TYPICAL LETTER**

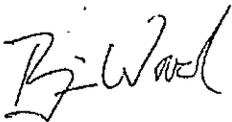
Lime Rock Resources II-A, L. P. is applying (see attached application) to drill the Choate Davis 14 State SWD 2 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Choate Davis 14 State SWD 2 (state lease) TD = 8,700'  
Proposed Disposal Zone: Cisco (from 7,530' to 8,700')  
Location: 1760' FNL & 880' FWL Sec. 14, T. 18 S., R. 27 E., Eddy County, NM  
Approximate Location: 10 air miles southeast of Artesia, NM  
Applicant Name: Lime Rock Resources II-A, L. P. (713) 292-9528  
Applicant's Address: 1111 Bagby St., Suite 4600, Houston, TX 77002

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. The New Mexico Oil Conservation Division 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

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
<b>NM State Land Office</b> <b>PO Box 1148</b> <b>Santa Fe NM 87504</b> <b>LIME Choate Davis-14</b>	
City, State, ZIP+4®	

PEGOS NM OISE  
 JUL 14 2016  
 87552-9998

EXHIBIT K

7015 1730 0001 0168 8949

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Sent To **Alamo Resources II, LLC**  
 850 Gessner, Suite 1650  
 Houston TX 77024  
 LIME Choate Davis 14

Street and Apt. No., or PO Box No.

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2626 8932 7015 1730 0001 0168 8932

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **9.57**

Total Postage and Fees \$ **15.57**

Sent To **ABO Petro Corp**  
 105 S 4th Street  
 Artesia NM 88210  
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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$ **BLM**

Sent To **Apache Corporation**  
 620 E. Greene Street  
 Carlsbad NM 88220  
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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Apache Corporation**  
 303 Veterans Airpark Lane #3000  
 Midland TX 79705  
 LIME Choate Davis 14

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$ **COG**

Sent To **Chevron USA**  
 600 W. Illinois Ave  
 Midland TX 79701  
 LIME Choate Davis 14

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Chevron USA**  
 1400 Smith Street  
 Houston TX 77002  
 LIME Choate Davis 14

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EXHIBIT K

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

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Adult Signature Restricted Delivery \$

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Certified Mail Restricted Delivery \$

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Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

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Adult Signature Restricted Delivery \$

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Total Postage and Fees \$

Sent To **Martin Yates Jr**  
**112 N 1st Street**  
**Artesia NM 88210**  
**LIME Choate Davis 14**

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Martin Yates III**  
**112 N 1st Street**  
**Artesia NM 88210**  
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Return Receipt (hardcopy) \$

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **MYCO Industries Inc**  
**105 S 4th Street**  
**Artesia NM 88210**  
**LIME Choate Davis 14**

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Mewbourne Oil Company**  
**500 W Texas Street #1020**  
**Midland TX 79701**  
**LIME Choate Davis 14**

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **OXY Y-1 Company**  
**PO Box 27570**  
**Houston TX 77227**  
**LIME Choate Davis 14**

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Occidental Permian LP**  
**5 E Greenway Plaza #110**  
**Houston TX 77046**  
**LIME Choate Davis 14**

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EXHIBIT K

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
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Postage  
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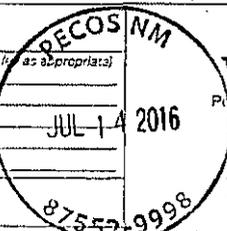
Total Postage and Fees  
\$

Sent To  
RKI Exploration & Prod LLC  
210 Park Avenue, Suite 900  
Oklahoma City OK 73102  
LIME Choate Davis 14

Street and Apt. No., or PO Box No.

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

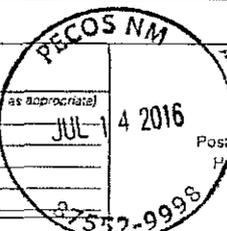
Total Postage and Fees  
\$

Sent To  
Pitch Energy Group  
PO Box 304  
Artesia NM 88211  
LIME Choate Davis 14

Street and Apt. No., or PO Box No.

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

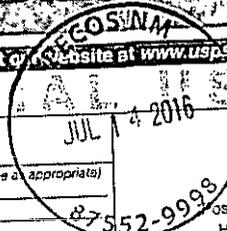
Total Postage and Fees  
\$

Sent To  
WPX Energy Production LLC  
One Williams Center  
PO Box 3102  
Tulsa OK 74101  
LIME Choate Davis 14

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

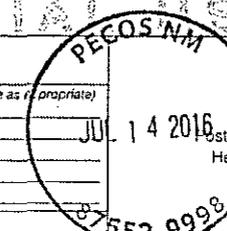
Total Postage and Fees  
\$

Sent To  
RSE Partners I LP  
3141 Hood Street #350  
Dallas TX 75219  
LIME Choate Davis 14

Street and Apt. No., or PO Box No.

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Certified Mail Fee  
\$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$

Total Postage and Fees  
\$

Sent To  
Yates Petro Corp  
105 S 4th Street  
Artesia NM 88210  
LIME Choate Davis 14

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

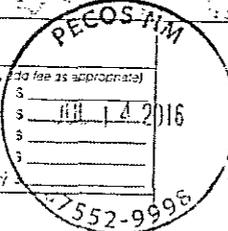


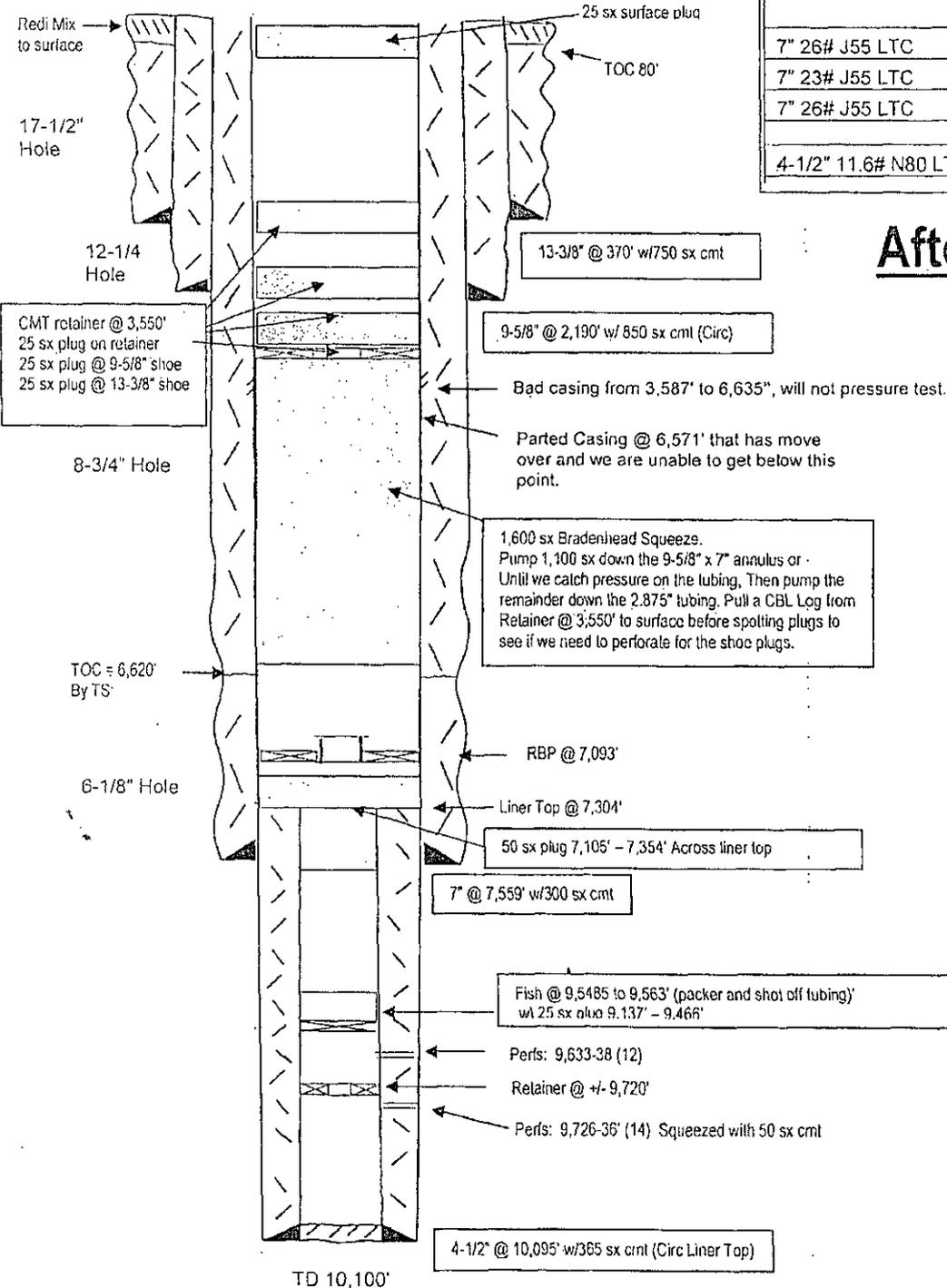
EXHIBIT K

WELL NAME: Beauregard ANM State Com #1 FIELD: Red Lake  
 LOCATION: 1,980' FSL & 660' FWL Sec 14-18S-27E Eddy County, NM

GL: 3,475' ZERO: \_\_\_\_\_ KB: \_\_\_\_\_  
 SPUD DATE: 9/24/93 COMPLETION DATE: 10/11/93  
 COMMENTS: API No.: 30-015-27448

**CASING PROGRAM**

13-3/8" 54.5# J-55	370'
9-5/8" 36# J55 STC	2,190'
7" 26# J55 LTC	412'
7" 23# J55 LTC	5,596'
7" 26# J55 LTC	7,559'
4-1/2" 11.6# N80 LTC	10,095'



**After P&A**

TOPS	
San Andres	1,786'
Glorieta	3,402'
Abo Reef	5,066'
3 <sup>rd</sup> BS	6,361'
Permo Penn	6,872'
Strawn	8,745'
Atoka	9,257'
Morrow Cl	9,618'
Chester	9,940'

Not to Scale  
 9-5-13  
 Hill

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>1. Complete items 1, 2, and 3.</p> <p>2. Print your name and address on the reverse so that we can return the card to you.</p> <p>3. Attach this card to the back of the multiplex, or on the front if space permits.</p> <p>4. Attach addressed to:</p> <p>Martha Yates Jr. 112 N. 1st Street Artesia NM 88210</p> <p>5. Service Type  <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed  <input checked="" type="checkbox"/> Restricted by Printer Name  <input type="checkbox"/> Date of Delivery</p> <p>6. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>7. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>	<p>8. Signature <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed</p> <p>9. Received by Printer Name <input type="checkbox"/> Date of Delivery</p> <p>10. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>11. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>1. Complete items 1, 2, and 3.</p> <p>2. Print your name and address on the reverse so that we can return the card to you.</p> <p>3. Attach this card to the back of the multiplex, or on the front if space permits.</p> <p>4. Attach addressed to:</p> <p>Martha Yates III 112 N. 1st Street Artesia NM 88210</p> <p>5. Service Type  <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed  <input checked="" type="checkbox"/> Restricted by Printer Name  <input type="checkbox"/> Date of Delivery</p> <p>6. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>7. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>	<p>8. Signature <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed</p> <p>9. Received by Printer Name <input type="checkbox"/> Date of Delivery</p> <p>10. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>11. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>

**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 37 VERANO LOOP SANTA FE, NEW MEXICO 87508

To: Martin Yates Jr.  
 NIXIE 882112035-1R  
 07/20/16

7015 1730 0001 0168 9054

**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 37 VERANO LOOP SANTA FE, NEW MEXICO 87508

To: Martha Yates III  
 NIXIE 882112035-1R  
 07/20/16

7015 1730 0001 0168 9052

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>1. Complete items 1, 2, and 3.</p> <p>2. Print your name and address on the reverse so that we can return the card to you.</p> <p>3. Attach this card to the back of the multiplex, or on the front if space permits.</p> <p>4. Attach addressed to:</p> <p>Pitch Energy Group PO Box 304 Artesia NM 88211</p> <p>LINE: Choate Davis 14</p> <p>5. Service Type  <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed  <input checked="" type="checkbox"/> Restricted by Printer Name  <input type="checkbox"/> Date of Delivery</p> <p>6. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>7. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>	<p>8. Signature <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed</p> <p>9. Received by Printer Name <input type="checkbox"/> Date of Delivery</p> <p>10. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>11. Service Type  <input type="checkbox"/> Priority Mail Express  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Registered Mail  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Restricted Delivery</p>

7015 1730 0001 0168 9120



**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 37 VERANO LOOP SANTA FE, NEW MEXICO 87508

To: Pitch Energy Group  
 PO Box 304  
 NIXIE 882112035-1N 07/20/16

RETURN TO SENDER  
 UNABLE TO FORWARD  
 UNABLE TO FORWARD  
 RETURN TO SENDER



Amoco Production Company  
Diagrammatic Sketch

Elevations

KB: 3566'

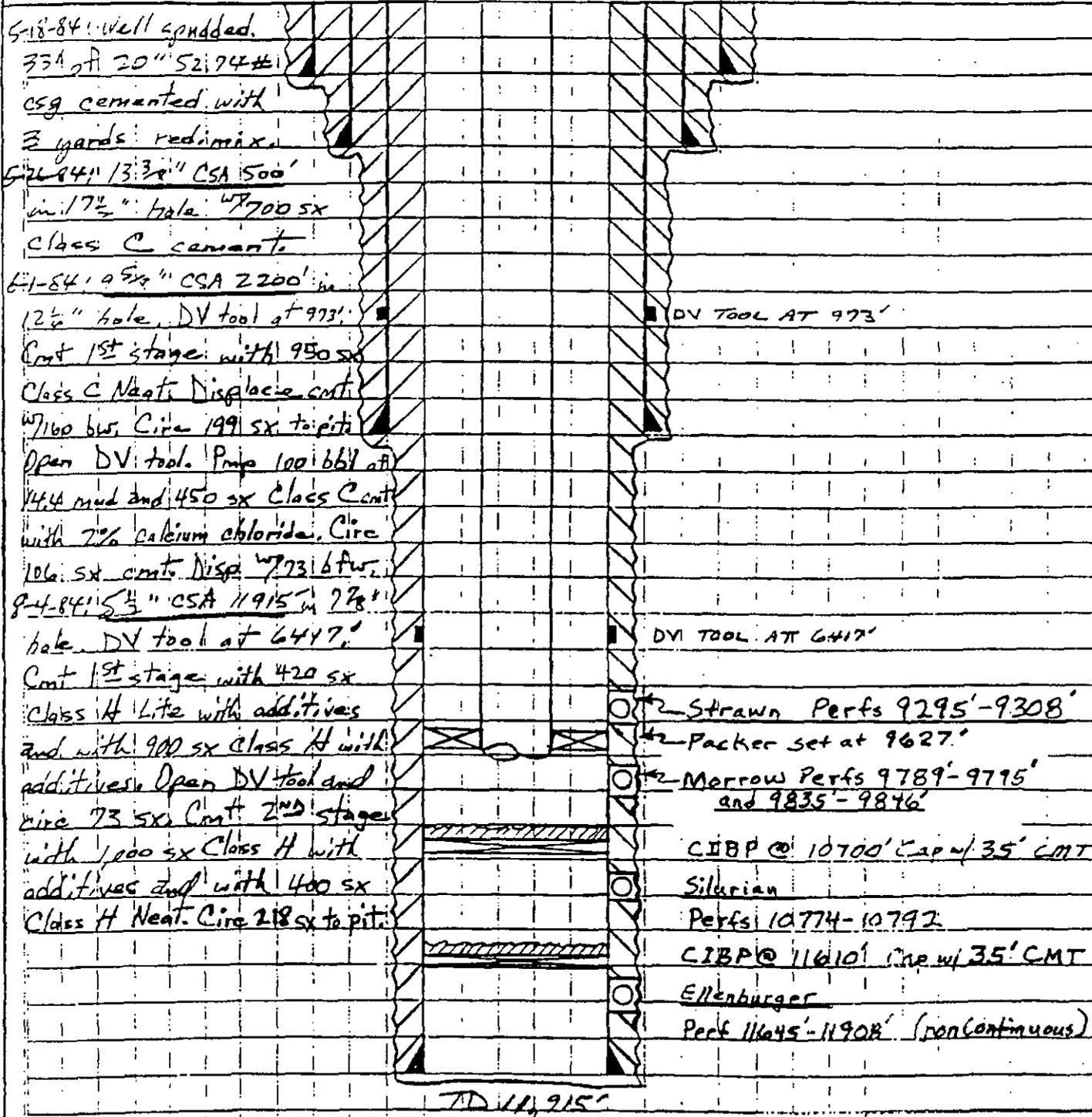
DF: 3565'

GL: 3546'

Well: Federal "D" Gas Com Well No. 1

Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Date: \_\_\_\_\_  
(of first completion)





District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
511 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
**Energy, Minerals & Natural Resources Department**  
**NM OIL CONSERVATION & ARTESIA DISTRICT OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

X AMENDED REPORT  
(pool change)

**RECEIVED**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43628</b>		Pool Code <b>96099</b>	Pool Name <b>SWD; Cisco</b>
Property Code <b>315992</b>	Property Name <b>CHOATE DAVIS 14 STATE SWD</b>		Well Number <b>2</b>
OGRID No. <b>277558</b>	Operator Name <b>LIME ROCK RESOURCES II-A, L.P.</b>		Elevation <b>3495.4</b>

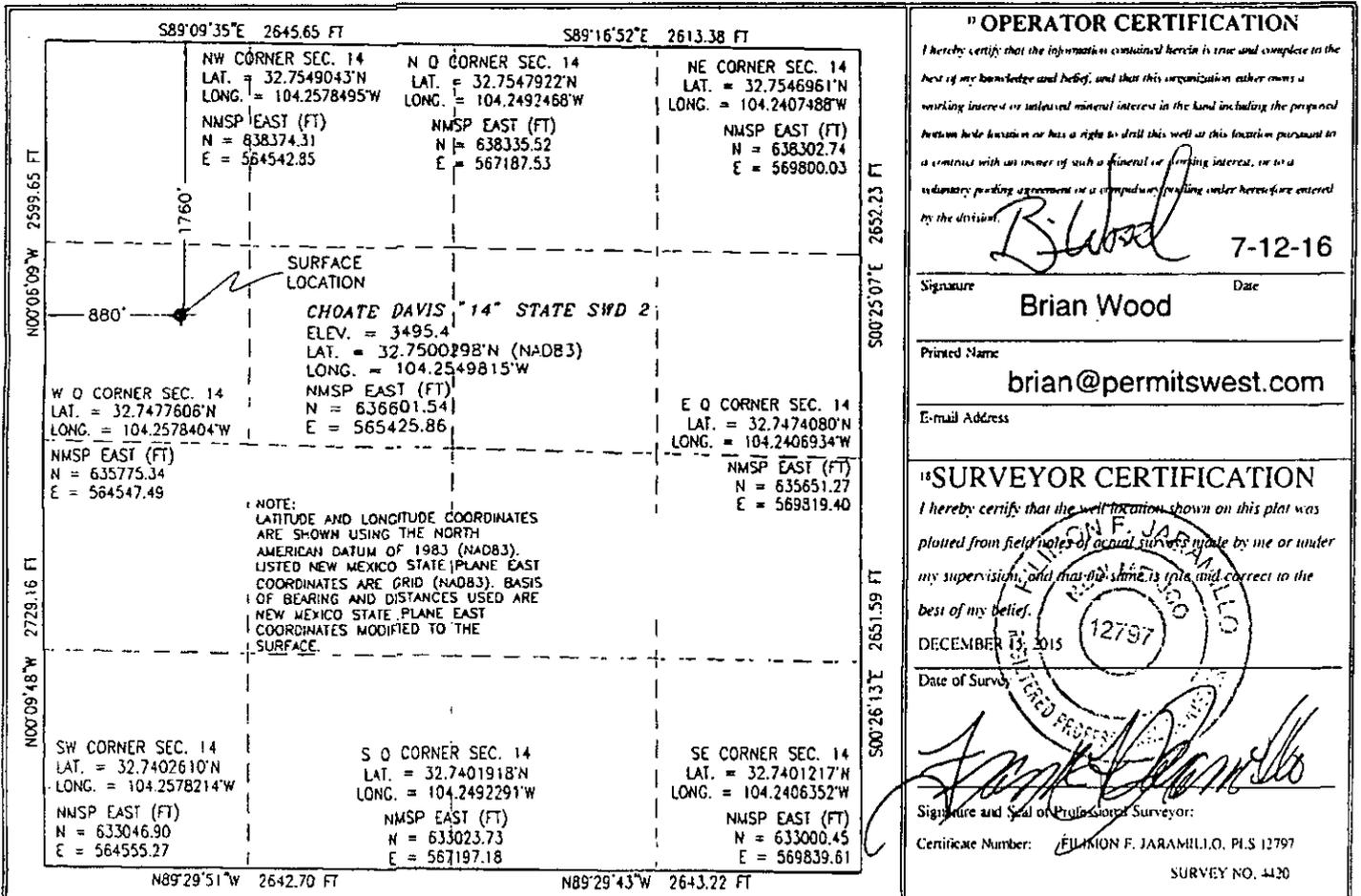
" Surface Location

UL or lot no. <b>E</b>	Section <b>14</b>	Township <b>18 S</b>	Range <b>27 E</b>	Lot Idn	Feet from the <b>1760</b>	North/South line <b>NORTH</b>	Feet from the <b>880</b>	East/West line <b>WEST</b>	County <b>EDDY</b>
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" 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
" Dedicated Acres		" Joint or Infill		" Consolidation Code		" Order No.			

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.



Ky 7-16-16



ORDER TYPE: WFX / PMX / SWL Number: Order Date: Legacy Permits/Orders:

Well No. 2 Well Name(s): Choate Lewis SWD 2

API: 30-0 1543628 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1760 FWL 880 FWL Lot or Unit E Sec 14 Tsp 18S Rge 27E County Eddy

General Location: 2.15 miles SE of Artesia Pool: SWD, FISCO Pool No.: 96099

BLM 100K Map: Artesia Operator: Limeron Resources - II-A OGRID: Wood Contact: BRIAN ASKED 277558

COMPLIANCE RULE 5.9: Total Wells: 551 Inactive: 377558 Fincl Assur: Y Compl. Order? MA IS 5.9 OK? Y Date: 8/12-2016

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed RE-ENTER: Before Conv. After Conv. Logs in Imaging: N/A

Planned Rehab Work to Well:

Well Construction Details	Sizes (in)		Setting Depths (ft)		Cement	Cement Top and Determination Method
	Borehole / Pipe				Spd or Cf	
Planned ___ or Existing ___ Surface	17 1/2 / 13 3/4		300	Stage Tool	350	Surface / Visual
Planned ___ or Existing ___ Interm/Prod	12 3/4 / 5 9/8		2800		845	Surface / Visual
Planned ___ or Existing ___ Interm/Prod	8 3/4 / 7		7530		1150	2600 / CBS
Planned ___ or Existing ___ Prod/Liner						
Planned ___ or Existing ___ Liner						
Planned ___ or Existing ___ OH / PERF	7530 / 870			Inj Length 1170		
Injection Lithostratigraphic Units: Depths (ft) Injection or Confining Units Tops					Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.		WC	6500	Drilled TD 870 PBD	NEW TD 870 NEW PBD	
Confining Unit: Litho. Struc. Por.		CSL	7530	NEW Open Hole <input checked="" type="checkbox"/> NEW Perfs <input type="checkbox"/>	Tubing Size 4 1/2 in. Inter Coated? <input checked="" type="checkbox"/>	
Proposed Inj Interval TOP:			7530	Proposed Packer Depth 7450 ft	Min. Packer Depth 7450 (100-ft limit)	
Proposed Inj Interval BOTTOM:			870	Proposed Max. Surface Press. 1506 psi	Admin. Inj. Press. 1500 (0.2 psi per ft)	
Confining Unit: Litho. Struc. Por.						
Adjacent Unit: Litho. Struc. Por.						

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P MA Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: B: NW: Cliff House fm

FRESH WATER: Aquifer Quaternary Max Depth 50 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Roswell Artesia CARITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 3 FW-Analysis

Disposal Fluid: Formation Source(s) Queen Crabb - Sun Andr Analysis?  On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 154/200 Protectable Waters? N/A Source: System Closed  or Open

HC Potential: Producing interval? N/A Formerly Producing? Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map?  Well List?  Total No. Wells Penetrating Interval: 3 Horizontals?

Penetrating Wells: No. Active Wells 1 Num Repairs? on which well(s)? Diagrams?

Penetrating Wells: No. P&A Wells 1 Num Repairs? on which well(s)? Diagrams?

NOTICE: Newspaper Date 7/14/2016 Mineral Owner NMSLO Surface Owner NMSLO N. Date 8-01-2016

RULE 26.7(A): Identified Tracts?  Affected Persons: Yates, Chevron, Alamo, Chevron N. Date 7/14/2016

Order Conditions: Issues: C-B-L OF 7" CASING TO 2000'

Add Order Cond: