

DATE: 7/19/2016	SUSPENSE	ENGINEER	LOGGED IN: 7/20/2016	TYPE: SWD	APP NO: PMAM1620251873
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ABOVE THIS LINE FOR DIVISION USE ONLY

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]

[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

2016 JUL 19 A 3
 RECEIVED COO

[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

Print or Type Name

Signature

Consultant

Title

brian@permitswest.com

e-mail Address

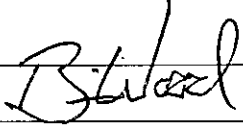
7-18-16

Date

Need return receipt for surface owner & offset parties

Run subs test

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
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.).
- *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.

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.

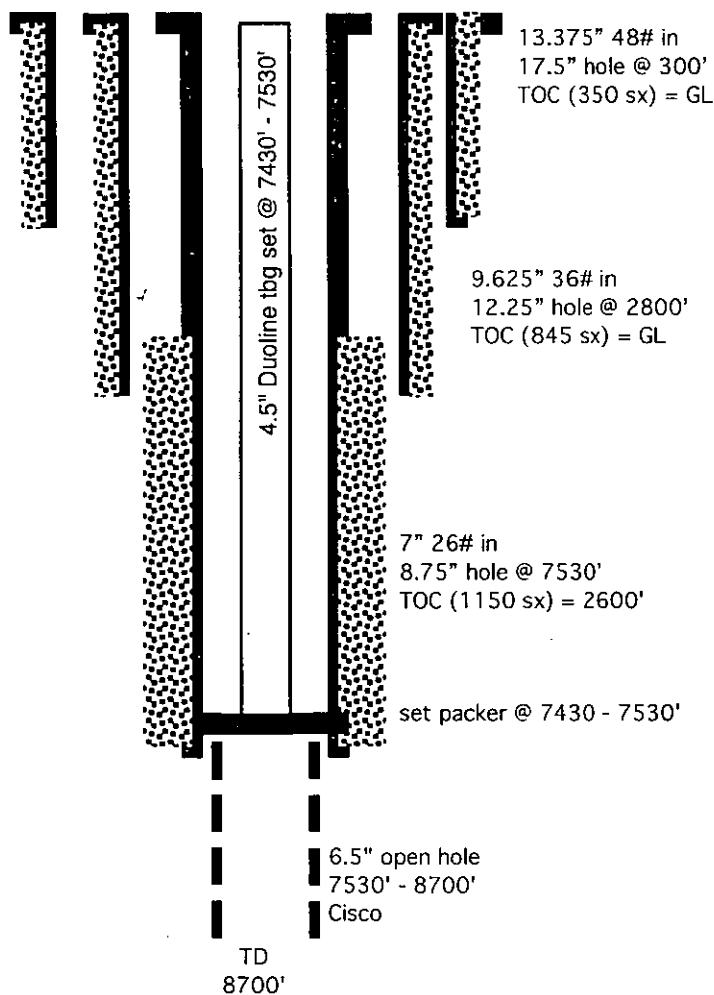
INJECTION WELL DATA SHEET

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 DATASurface Casing

Hole Size: 17.5" Casing Size: 13.375"
 Cemented with: 350 sx. *or* _____ ft³
 Top of Cement: SURFACE Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
 Cemented with: 845 sx. *or* _____ ft³
 Top of Cement: SURFACE Method Determined: CIRCULATE

Production Casing

Hole Size: 8.75" Casing Size: 7"
 Cemented with: 1150 sx. *or* _____ ft³
 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 SHEETTubing Size: 4.5" Lining Material: FIBERGLASSType of Packer: BAKER 85FA47Packer 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.
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1760' FNL & 880' FWL SEC. 14, T. 18 S., R. 27 E.
EDDY COUNTY, NEW MEXICO

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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'.)

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- 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:

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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 & SENE Sec. 14	NMSLO	X0-0648-0131	Marathon
SENE & SENE 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

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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.

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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 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.

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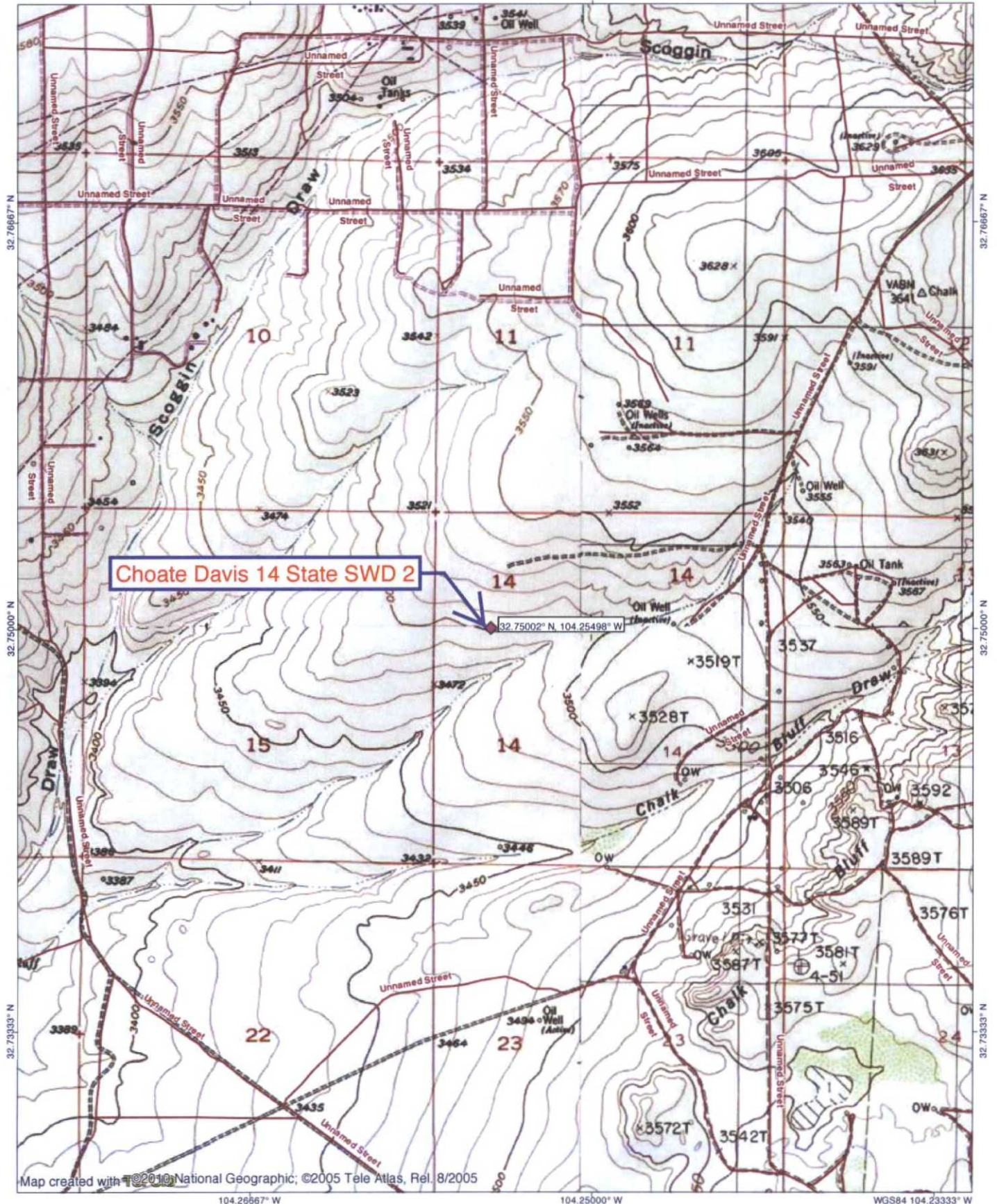
IX. The well will be stimulated with acid to clean out scale or fill.

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.



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
911 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) 476-3460 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

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

" Surface Location

UL or lot no. E	Section 14	Township 18 S	Range 27 E	Lot Idn	Feet from the 1760	North/South line NORTH	Feet from the 880	East/West line WEST	County EDDY
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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
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.

<p>S89°09'35"E 2645.65 FT</p> <p>NW CORNER SEC. 14 LAT. = 32.7549043°N LONG. = 104.2578495°W NMSP EAST (FT) N = 638374.31 E = 564542.85</p>		<p>S89°16'52"E 2613.38 FT</p> <p>N Q CORNER SEC. 14 LAT. = 32.7547922°N LONG. = 104.2492468°W NMSP EAST (FT) N = 638335.52 E = 567187.53</p>		<p>NE CORNER SEC. 14 LAT. = 32.7546961°N LONG. = 104.2407488°W NMSP EAST (FT) N = 638302.74 E = 569800.03</p>	
<p>880' 1760'</p> <p>SURFACE LOCATION</p> <p>CHOATE DAVIS "14" STATE SWD 2 ELEV. = 3495.4 LAT. = 32.7500298°N (NAD83) LONG. = 104.2549815°W NMSP EAST (FT) N = 636601.54 E = 565425.86</p>					
<p>W Q CORNER SEC. 14 LAT. = 32.7477606°N LONG. = 104.2578404°W NMSP EAST (FT) N = 635775.34 E = 564547.49</p>					
<p>E Q CORNER SEC. 14 LAT. = 32.7474080°N LONG. = 104.2406934°W NMSP EAST (FT) N = 635651.27 E = 569819.40</p>					
<p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p>					
<p>SW CORNER SEC. 14 LAT. = 32.7402610°N LONG. = 104.2578214°W NMSP EAST (FT) N = 633046.90 E = 564555.27</p>		<p>S Q CORNER SEC. 14 LAT. = 32.7401918°N LONG. = 104.2492291°W NMSP EAST (FT) N = 633023.73 E = 567197.16</p>		<p>SE CORNER SEC. 14 LAT. = 32.7401217°N LONG. = 104.2406352°W NMSP EAST (FT) N = 633000.45 E = 569839.61</p>	
N89°29'51"W 2642.70 FT		N89°29'43"W 2643.22 FT			

" OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Brian Wood Date: 7-12-16

Printed Name: Brian Wood

E-mail Address: brian@permitswest.com

" SURVEYOR CERTIFICATION

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.

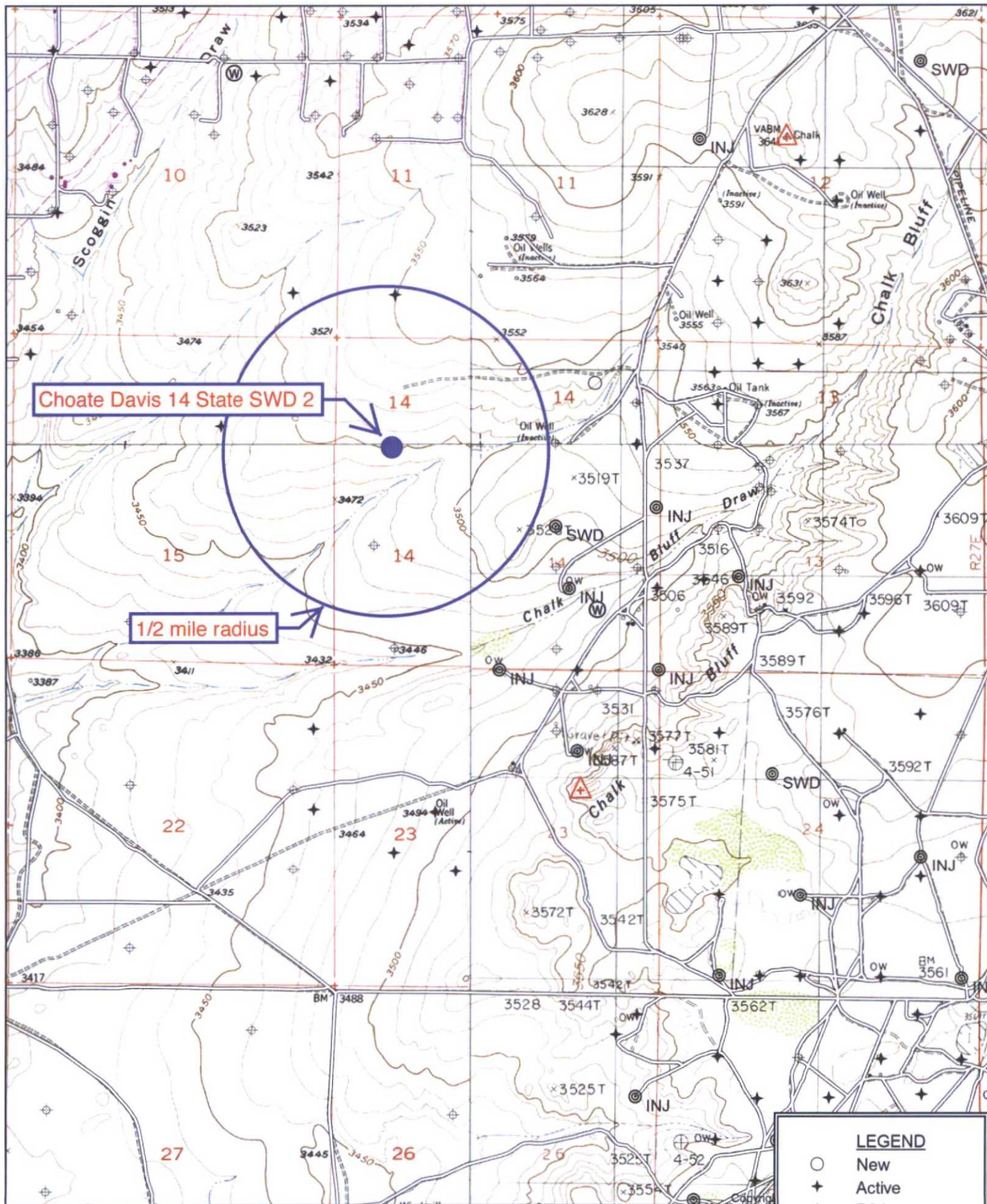
DECEMBER 13, 2015

Date of Survey: 12797

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: ELLAMON F. JARAMILLO, PLS 12797

SURVEY NO. 4420



Choate Davis 14 State SWD 2

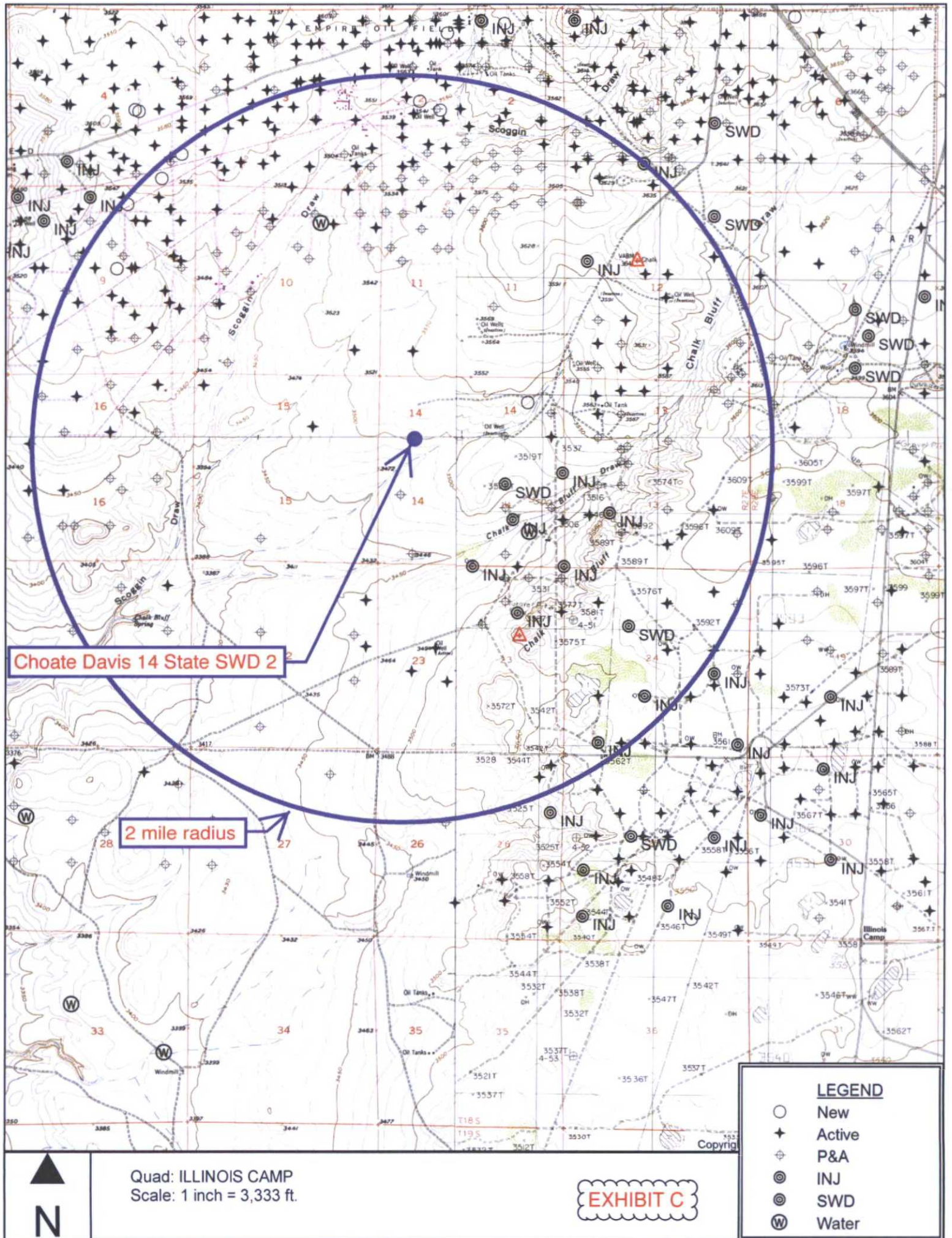
1/2 mile radius

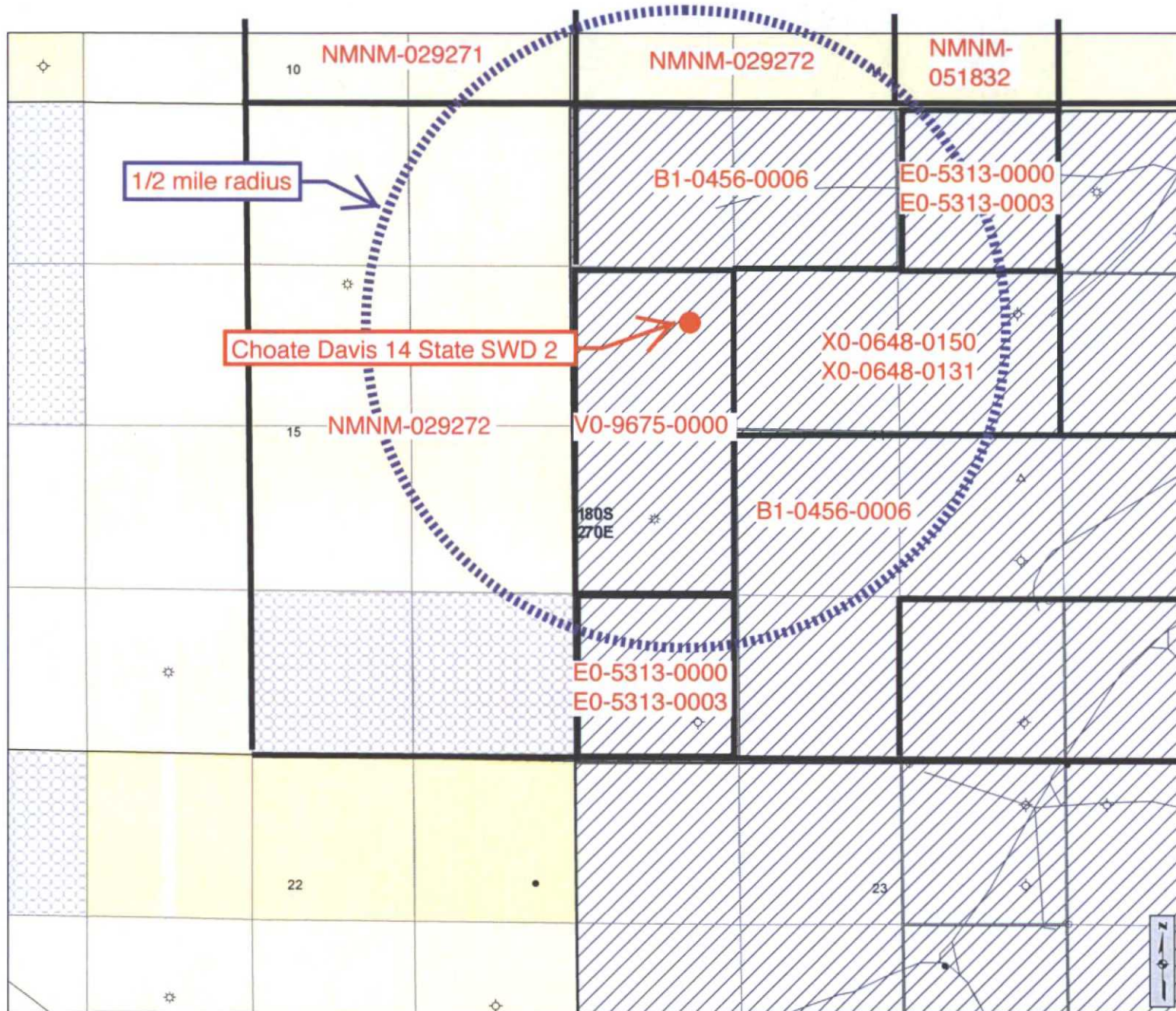
EXHIBIT B

LEGEND

- New
- ✦ Active
- ✦ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water

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





Cartographic Features

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

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
- NMOCD Order R-111-P
- Potash Enclave Outline

NMOCD Oil and Gas Wells

- CO₂
- Gas
- Injection
- Miscellaneous
- Oil
- Salt Water Disposal
- Water
- DA or PA

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.

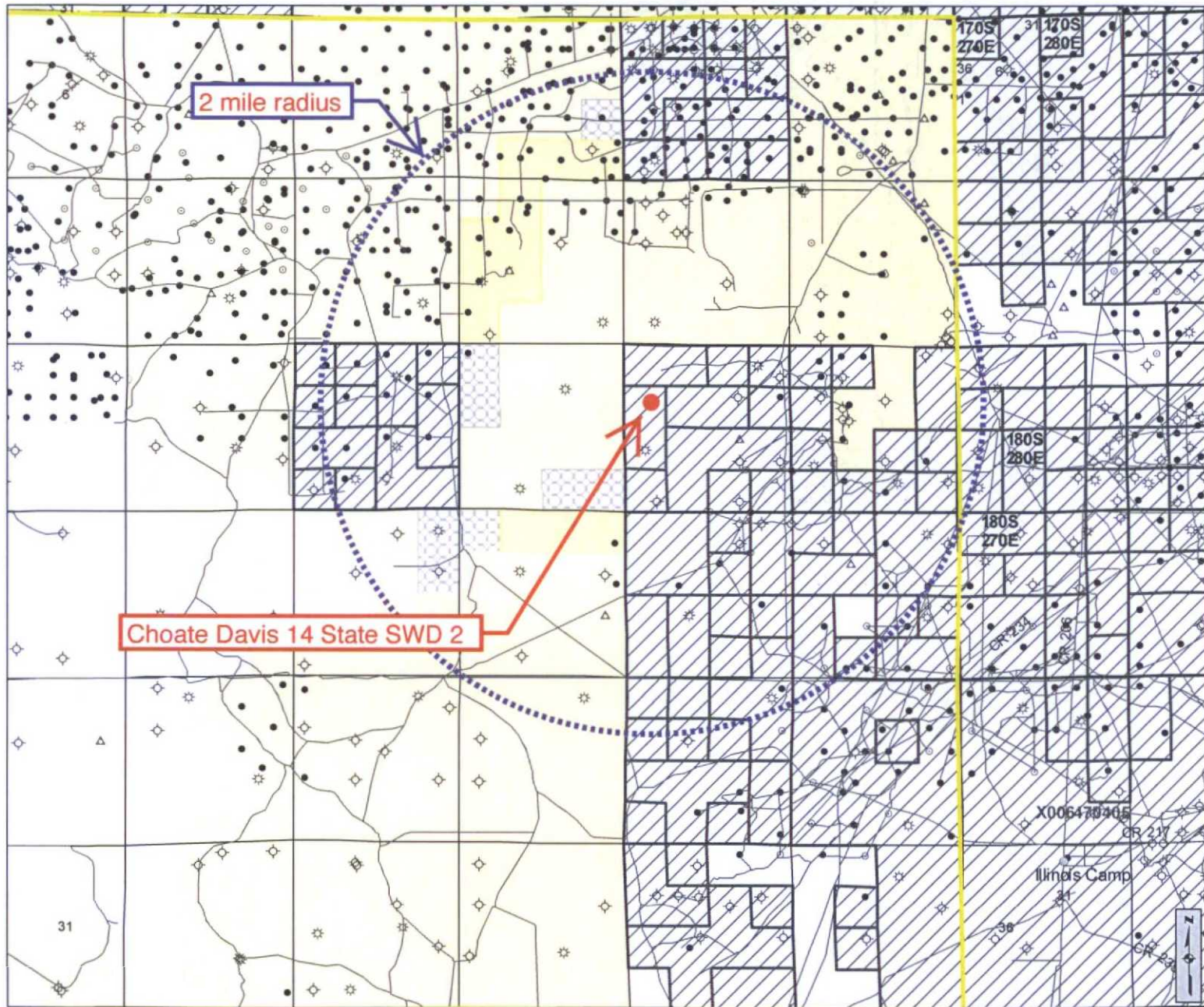
Land Office Geographic Information Center
logic@slo.state.nm.us

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
- US Hwy
- NM Hwy
- Local Road
- Continental Divide

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

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

New Mexico State Land Office Oil, Gas and Minerals

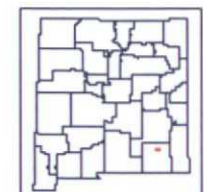
0 0.2 0.4 0.8 1.2 1.6 Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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.

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logic@slo.state.nm.us

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

EXHIBIT E



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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

	MG/L.	EQ. WT.	*MEQ/L
4. Hydrogen Sulfide	100		
5. Carbon Dioxide	80		
6. Dissolved Oxygen	Not Determined		

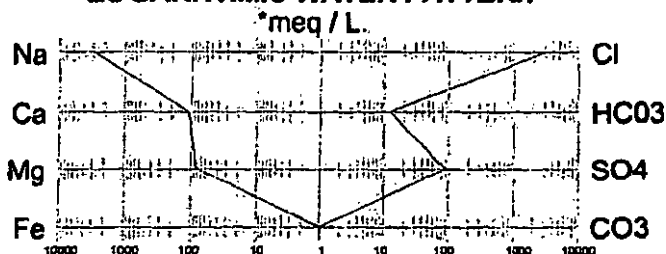
Cations

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		

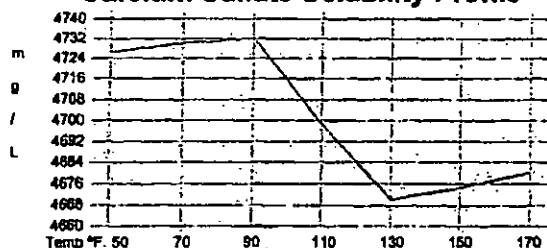
Anions

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	11.69		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, Inc.

WATER ANALYSIS REPORT

SAMPLE

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

from
 Glorieta-Yeso

Date Sampled : 15-July-2010
 Date Analyzed: 28-July-2010
 Lab ID Number: Jul2810.001- 6
 Salesperson :
 File Name : Jul2810.001

ANALYSIS

1. Ph 5.600
2. Specific Gravity 60/60 F. 1.143
3. CACO3 Saturation Index @ 80F -0.496 Negligible
 @140F 0.494 Mild

Dissolved Gasses

- | | MG/L. | EQ. WT. | *MEQ/L |
|---------------------|----------------|---------|--------|
| 4. Hydrogen Sulfide | 30 | | |
| 5. Carbon Dioxide | 50 | | |
| 6. Dissolved Oxygen | Not Determined | | |

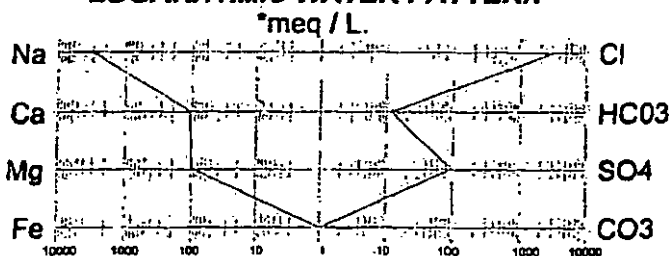
Cations

- | | | | |
|------------------------------|----------------|----------|----------|
| 7. Calcium (Ca++) | 2,072 | / 20.1 = | 103.08 |
| 8. Magnesium (Mg++) | 1,143 | / 12.2 = | 93.69 |
| 9. Sodium (Na+) (Calculated) | 69,836 | / 23.0 = | 3,036.35 |
| 10. Barium (Ba++) | Not Determined | | |

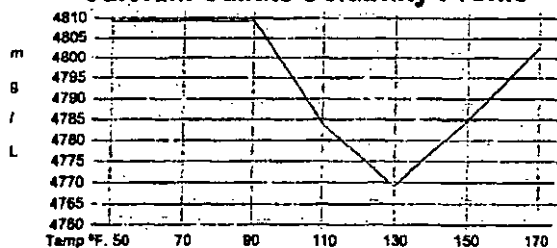
Anions

- | | | | |
|--------------------------------------|--------------------|----------|----------|
| 11. Hydroxyl (OH-) | 0 | / 17.0 = | 0.00 |
| 12. Carbonate (CO3=) | 0 | / 30.0 = | 0.00 |
| 13. Bicarbonate (HCO3-) | 686 | / 61.1 = | 11.23 |
| 14. Sulfate (SO4=) | 4,500 | / 48.8 = | 92.21 |
| 15. Chloride (Cl-) | 110,975 | / 35.5 = | 3,126.06 |
| 16. Total Dissolved Solids | 189,212 | | |
| 17. Total Iron (Fe) | 14.50 | / 18.2 = | 0.80 |
| 18. Manganese (Mn++) | Not Determined | | |
| 19. Total Hardness as CaCO3 | 9,879 | | |
| 20. Resistivity @ 75 F. (Calculated) | 0.008 Ohm · meters | | |

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	11.23		81.04	910
CaSO4	91.86		68.07	6,253
CaCl2	0.00		55.50	0
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.36		60.19	21
MgCl2	93.33		47.62	4,444
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	3,032.72		58.46	177,293

* 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 -0.204
@140F 0.716

Negligible
Moderate

Dissolved Gasses

- | | MG/L. | EQ. WT. | *MEQ/L |
|---------------------|----------------|---------|--------|
| 4. Hydrogen Sulfide | 80 | | |
| 5. Carbon Dioxide | 160 | | |
| 6. Dissolved Oxygen | Not Determined | | |

Cations

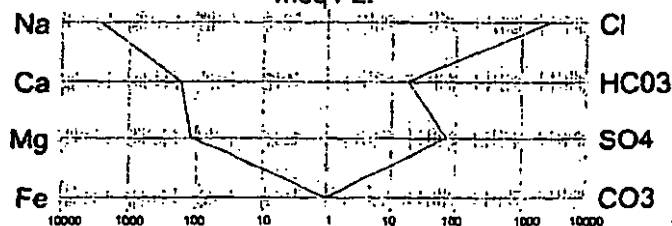
- | | | | |
|------------------------------|----------------|----------|----------|
| 7. Calcium (Ca++) | 3,391 | / 20.1 = | 168.71 |
| 8. Magnesium (Mg++) | 1,371 | / 12.2 = | 112.38 |
| 9. Sodium (Na+) (Calculated) | 58,430 | / 23.0 = | 2,540.44 |
| 10. Barium (Ba++) | Not Determined | | |

Anions

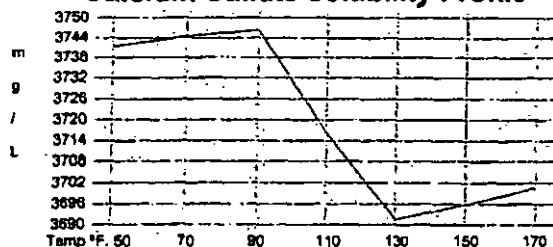
- | | | | |
|--------------------------------------|--------------------|----------|----------|
| 11. Hydroxyl (OH-) | 0 | / 17.0 = | 0.00 |
| 12. Carbonate (CO3=) | 0 | / 30.0 = | 0.00 |
| 13. Bicarbonate (HCO3-) | 1,080 | / 61.1 = | 17.35 |
| 14. Sulfate (SO4=) | 3,400 | / 48.8 = | 69.67 |
| 15. Chloride (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

*meq / L.



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
@ 140F

-2.905 Negligible
-1.145 Negligible

Dissolved Gasses

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

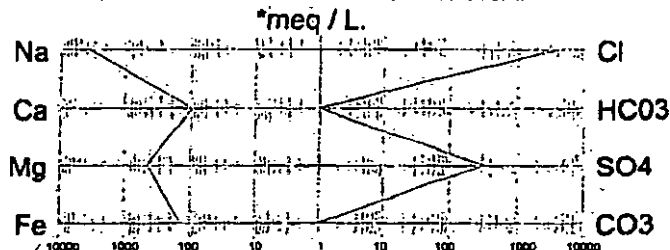
Cations

- | | | | |
|------------------------------|----------------|----------|----------|
| 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 | | |

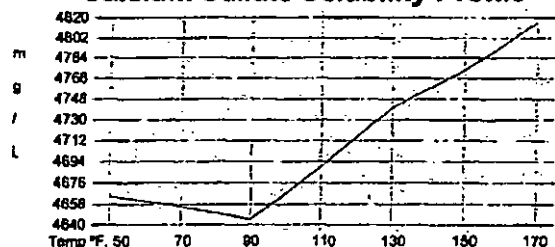
Anions

- | | | | |
|--------------------------------------|--------------------|----------|----------|
| 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 |
| 15. 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 0
5. Carbon Dioxide 90
6. Dissolved Oxygen Not Determined

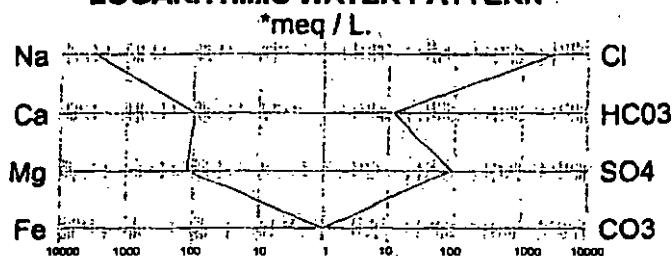
Cations

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

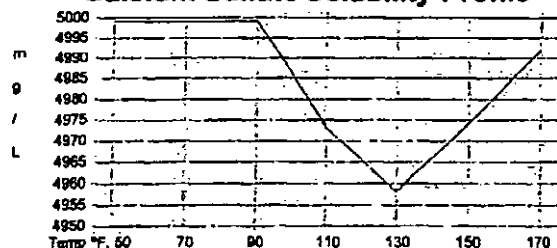
Anions

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
15. 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
 Lease : Jeffery 36
 Well No.: ST
 Location:
 Attention:

from Queen,
 Grayburg,
 San Andres

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

ANALYSIS

1. Ph 5.600
2. Specific Gravity 60/60 F. 1.143
3. CaCO3 Saturation Index @ 80F -0.400
 @140F 0.590

Negligible
 Mild

Dissolved Gasses

4. Hydrogen Sulfide 30
5. Carbon Dioxide 100
6. Dissolved Oxygen Not Determined

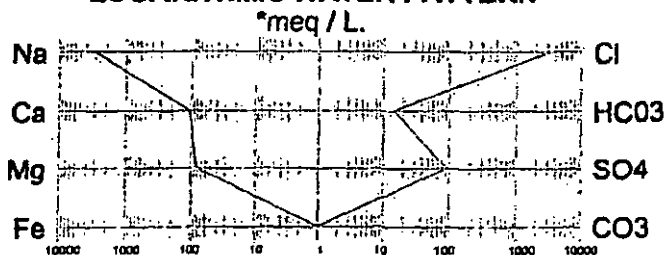
Cations

- | | | | |
|------------------------------|----------------|----------|----------|
| 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 | | |

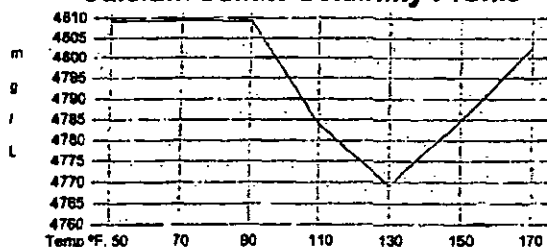
Anions

- | | | | |
|--------------------------------------|--------------------|----------|----------|
| 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



Calcium Sulfate Solubility Profile



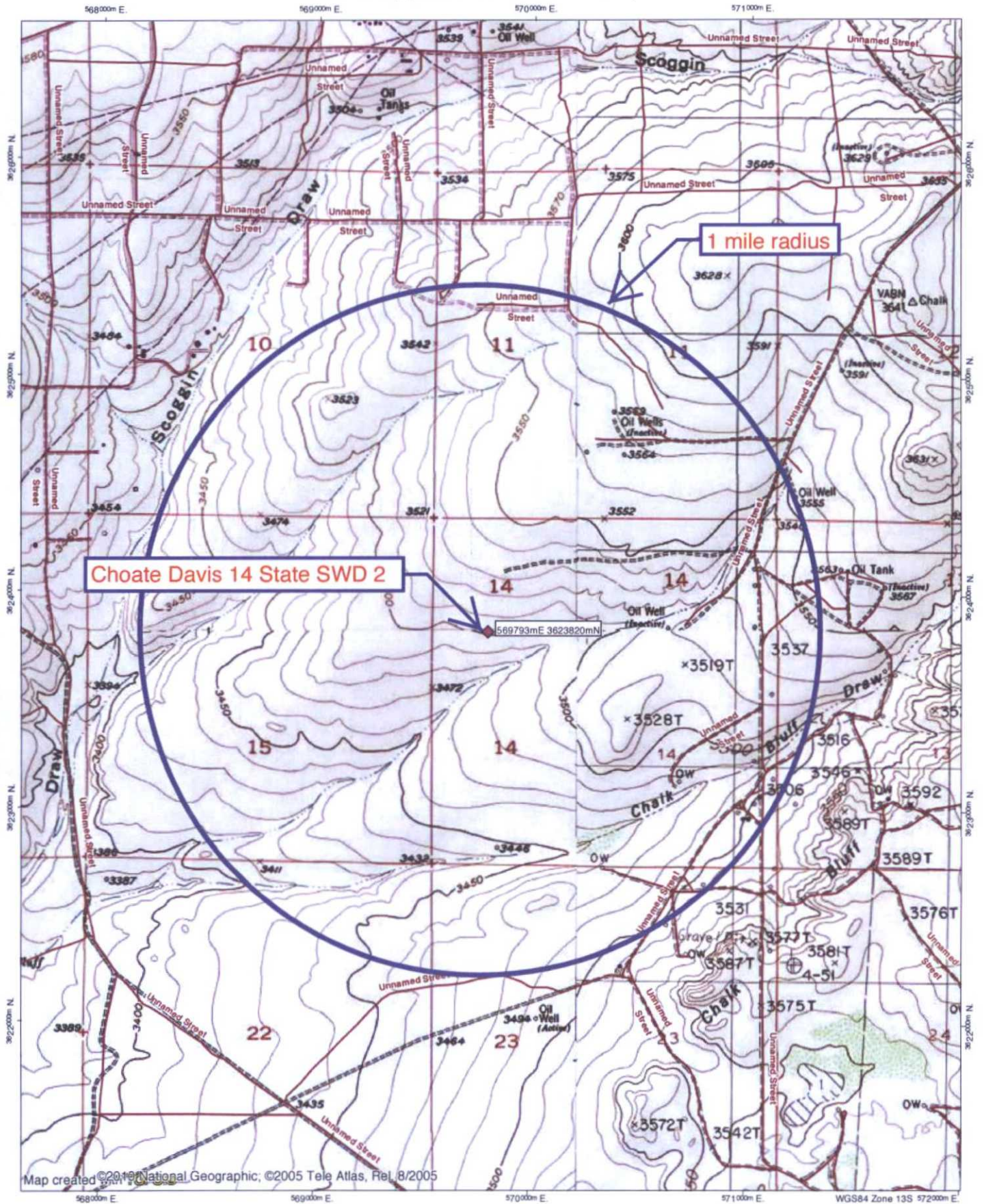
PROBABLE MINERAL COMPOSITION

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





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)

(acre ft per annum)

Sub




basIn Use Diversion Owner

County POD Number

Code Grant

Source 6416 4 Sec Tws Rng

X Y Distance

04048	OBS		0 INC. WESTERN OIL FIELDS	LE	RA 04048	1610 meters	Artesian	1	4	4	14	18S	27E	570841	3623030*		1312
03917	PRO		0 PAN AMERICAN PETROLEUM CORP.	LE	RA 03917	= 5280 feet	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

Word Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 569793 Northing (Y): 3623820 Radius: 3220

Sorted by: Distance

A location was derived from PLSS - see Help

EXHIBIT H

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	
RA 03917			LE	4	1	2	10	18S	27E	569019	3625660*	1996	130	50 80

1610 meters

= 5280 feet

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



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

Geologist

Lime Rock Resources II-A, L.P.

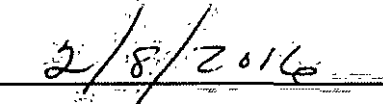

Date

EXHIBIT I



Affidavit of Publication

No. 24003

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that she is the

Publisher

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

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

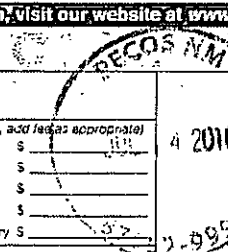
U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®	
OFFICIAL USE	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> 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 NM State Land Office PO Box 1148 Santa Fe NM 87504 LIME Choate Davis-14	
City, State, ZIP+4®	

7015 1730 0001 0168 9090

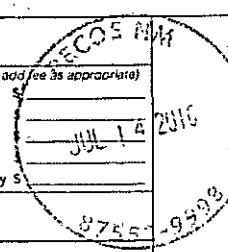
PECOS NMCD
JUL 14 2016
87552-9998

EXHIBIT K

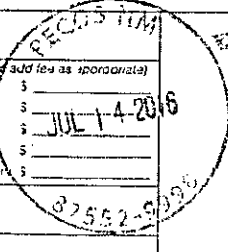
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<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	Postmark Here
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
Alamo Resources II, LLC 850 Gessner, Suite 1650 Houston TX 77024 LIME Choate Davis 14 City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

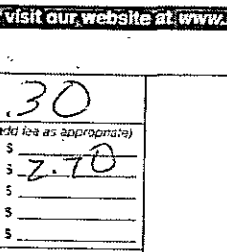
7015 1730 0001 0168 8963

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
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 \$	Postmark Here
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
BLM 620 E. Greene Street Carlsbad NM 88220 LIME Choate Davis 14 City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

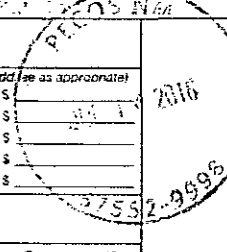
7015 1730 0001 0168 8987

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For delivery information, visit our website at www.usps.com	
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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) \$	
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<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
COG 600 W. Illinois Ave Midland TX 79701 LIME Choate Davis 14 City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7015 1730 0001 0168 8932

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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 \$	Postmark Here
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
ABO Petro Corp 105 S 4th Street Artesia NM 88210 LIME Choate Davis 14 City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7015 1730 0001 0168 8956

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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 \$	Postmark Here
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
Apache Corporation 303 Veterans Airpark Lane #3000 Midland TX 79705 LIME Choate Davis 14 City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7015 1730 0001 0168 8970

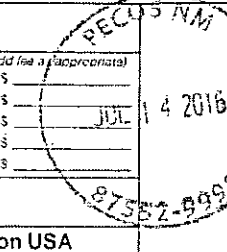
U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
Certified Mail Fee \$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
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<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	Postmark Here
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees	
Chevron USA 1400 Smith Street Houston TX 77002 LIME Choate Davis 14 City, State, ZIP+4®	
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EXHIBIT K

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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 Dominion OK & TX E&P c/o RKI 3500 One Williams Center Tulsa OK 74172 LIME Choate-Davis-14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7015 1730 0001 0168 9021

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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 Khody Land & Minerals Co 210 Park Avenue, Suite 900 Oklahoma City OK 73102 LIME Choate-Davis-14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
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7015 1730 0001 0168 9045

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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	\$
<input type="checkbox"/> Return Receipt (hardcopy)	\$
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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	\$
Sent To Marbob Energy Group c/o COG 600 W. Illinois Ave. Midland TX 79701 LIME Choate-Davis-14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
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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 Dakota Resources 4914 N. Midkiff Rd. Midland TX 79705 LIME Choate-Davis-14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
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7015 1730 0001 0168 9014

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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 Kerr McGee OG Onshore LP C/O Anadarko Petroleum Corp PO Box 1330 Houston TX 77251 LIME Choate Davis 14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
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7015 1730 0001 0168 9038

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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	\$
<input type="checkbox"/> Return Receipt (hardcopy)	\$
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To Marathon Oil Co PO Box 2069 Houston TX 77252 LIME Choate-Davis-14	
Street and Apt. No., or P.O. Box No.	
City, State, ZIP+4 [®]	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

EXHIBIT K

7015 1730 0001 0168 9069

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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
Martin Yates Jr
112 N 1st 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

7015 1730 0001 0168 9052

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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
Martin Yates III
112 N 1st 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

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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
MYCO Industries Inc
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

7015 1730 0001 0168 9076

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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
Mewbourne Oil Company
500 W Texas Street #1020
Midland TX 79701
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

7015 1730 0001 0168 9113

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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
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

7015 1730 0001 0168 9106

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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
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

EXHIBIT K

7015 1660 0000 1583 1044

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
 \$

Total Postage and Fees **87552-9998**
 \$

Sent To **PECOS NM**
210 Park Avenue, Suite 900
Oklahoma City OK 73102
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

7015 1730 0001 0168 9120

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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 **87552-9998**
 \$

Sent To **PECOS NM**
PO Box 304
Artesia NM 88211
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

7015 1660 0000 1583 1066

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Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
 \$

Total Postage and Fees **87552-9998**
 \$

Sent To **PECOS NM**
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®

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

7015 1660 0000 1583 1051

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Certified Mail Fee
 \$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
 \$

Total Postage and Fees **87552-9998**
 \$

Sent To **PECOS NM**
RSE Partners I LP
3141 Hood Street #350
Dallas TX 75219
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

7015 1660 0000 1583 1075

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
 \$

Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
 \$

Total Postage and Fees **87552-9998**
 \$

Sent To **PECOS NM**
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®

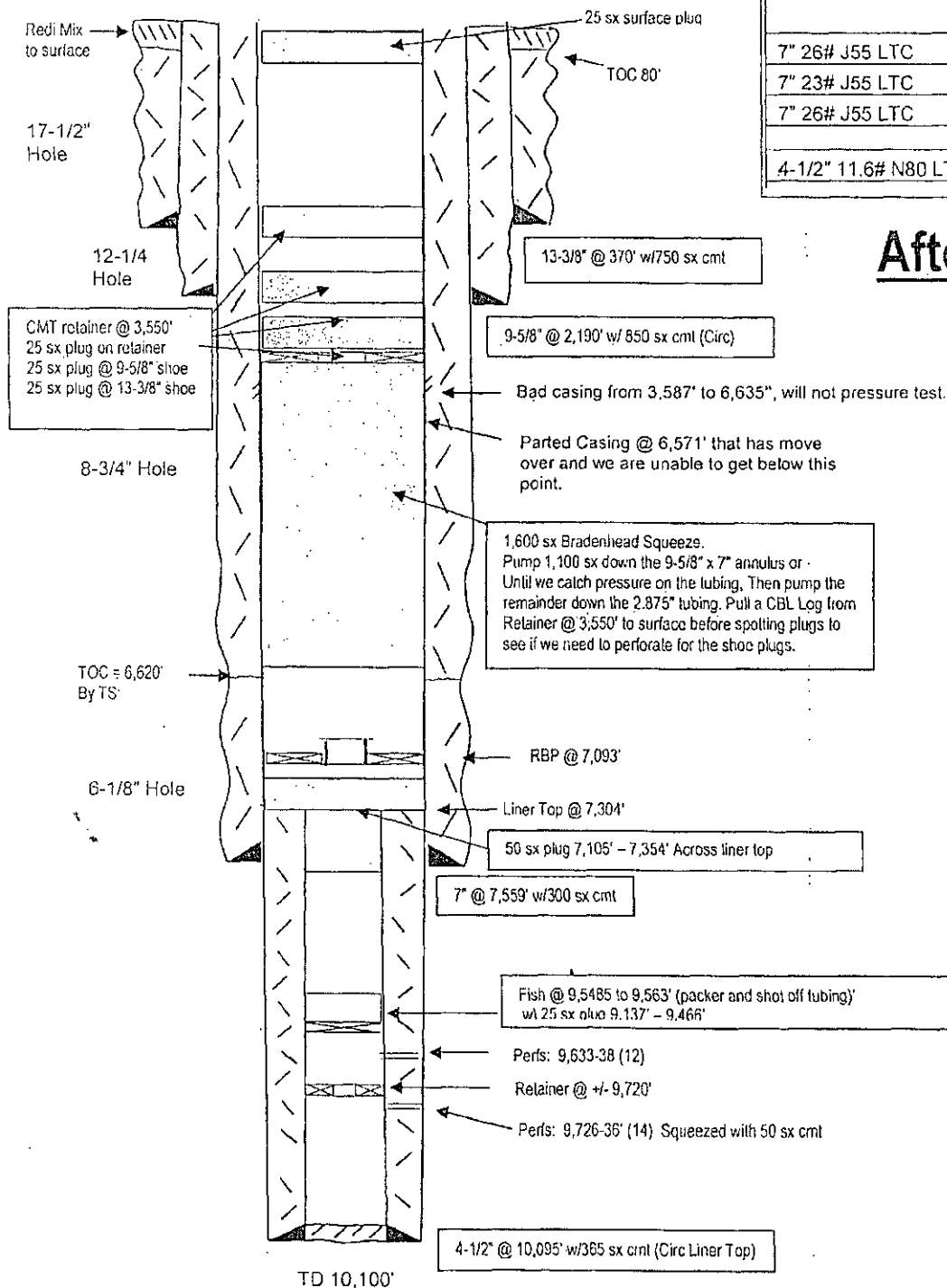
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT K

WELL NAME: Beauregard ANM State Com #1FIELD: Red LakeLOCATION: 1,980' FSL & 660' FWL Sec 14-18S-27EEddy County, NMGL: 3,475' ZERO: KB: SPUD DATE: 9/24/93 COMPLETION DATE: 10/11/93COMMENTS: 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 rd 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

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



Amoco Production Company

Diagrammatic Sketch

Well: Federal "D" Gas Conn Well No. 1Location: 700/s x 990/w (M-11-18-27) Eddy Co., NM

Elevations

KB: 3566'DF: 3565'GL: 3546'Date: _____
(of first completion)

5-18-84: Well cased.

33A 20" 52,74#

CSG cemented with

3 yards redmix.

5-26-84: 13.3" CSA 500'

in 17 1/2" hole. 7700 SX

Class C cement.

6-1-84: 9 5/8" CSA 2200'

12 1/2" hole. DV tool at 973'

Cont 1st stage with 950 SX

Class C Neat Displace cont.

w/160 b/w. Circ 199 SX to pit.

Open DV tool. Pump 100 bbl at

1/4" mud and 450 SX Class C cont.

with 2% calcium chloride. Circ

106 SX cont. Displ w/773 b/w.

8-4-84: 5 1/2" CSA 11915' in 7 7/8"

hole. DV tool at 6417'

Cont 1st stage with 420 SX

Class H Lite with additives

and with 900 SX Class H with

additives. Open DV tool and

circ 73 SX. Cont 2nd stage

with 1000 SX Class H with

additives and with 400 SX

Class H Neat. Circ 218 SX to pit.

DV TOOL AT 973'

DV TOOL AT 6417'

Strawn Perfs 9295'-9308'

Packer set at 9627'

Morrow Perfs 9789'-9795'
and 9835'-9846'

CIBP @ 10700' Cap w/ 35' CMT

Silurian

Perfs 10774'-10792'

CIBP @ 11610' One w/ 35' CMT

Ellenburger

Perf 11645'-11908' (noncontinuous)

TD 11,915'

[illegible]

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 DIVISION
ARTESIA DISTRICT
JUL 16 2016 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 30-015-43628		Pool Code 96099	Pool Name SWD; Cisco
Property Code 315992	Property Name CHOATE DAVIS 14 STATE SWD		Well Number 2
OGRID No. 277558	Operator Name LIME ROCK RESOURCES II-A, L.P.		Elevation 3495.4

" 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

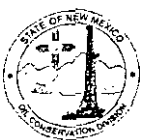
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

" 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.

<p>S89°09'35"E 2645.65 FT</p> <p>S89°16'52"E 2613.38 FT</p> <p>NW CORNER SEC. 14 LAT. = 32.7549043°N LONG. = 104.2578495°W NMSP EAST (FT) N = 638374.31 E = 564542.85</p> <p>N O CORNER SEC. 14 LAT. = 32.7547922°N LONG. = 104.2492468°W NMSP EAST (FT) N = 638335.52 E = 567187.53</p> <p>NE CORNER SEC. 14 LAT. = 32.7546961°N LONG. = 104.2407488°W NMSP EAST (FT) N = 638302.74 E = 569800.03</p> <p>W O CORNER SEC. 14 LAT. = 32.7477608°N LONG. = 104.2578404°W NMSP EAST (FT) N = 635775.34 E = 564547.49</p> <p>E O CORNER SEC. 14 LAT. = 32.7474080°N LONG. = 104.2408934°W NMSP EAST (FT) N = 635651.27 E = 569819.40</p> <p>SW CORNER SEC. 14 LAT. = 32.7402610°N LONG. = 104.2578214°W NMSP EAST (FT) N = 633046.90 E = 564555.27</p> <p>S O CORNER SEC. 14 LAT. = 32.7401918°N LONG. = 104.2492291°W NMSP EAST (FT) N = 633023.73 E = 567197.18</p> <p>SE CORNER SEC. 14 LAT. = 32.7401217°N LONG. = 104.2408352°W NMSP EAST (FT) N = 633000.45 E = 569839.61</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p>		<p>" OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Brian Wood</i> 7-12-16 Signature Date Brian Wood Printed Name brian@permitswest.com E-mail Address</p> <p>" SURVEYOR CERTIFICATION</p> <p>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.</p> <p>DECEMBER 13, 2015 Date of Survey</p> <p><i>Frank Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FRANKION F. JARAMILLO, PLS 12797 SURVEY NO. 4420</p>
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KJ 7-16-16

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: _____Well No. 42 Well Name(s): Choate Davis SWD 2API: 30-0 1543628 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)Footages 1760 FNL
880 FNL Lot _____ or Unit E Sec 14 Tsp 18S Rge 27E County EdmGeneral Location: 2.15 miles SE of Artesia Pool: SWD, FISCO Pool No.: 96099BLM 100K Map: Artesia Operator: LIMCROW
Resources - II-A OGRID: WOOD Contact: Brian Asake 277558COMPLIANCE RULE 5.9: Total Wells: 551 Inactive: 377558 Fincl Assur: Y Compl. Order? MA IS 5.9 OK? Y Date: 8-12-2016WELL FILE REVIEWED ☐ Current Status: ProposedWELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: N/A

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination
		Borehole / Pipe	Depths (ft)	Size or Cf	Method
Planned ___ or Existing ___ Surface		<u>17 1/2 / 13 3/4</u>	<u>300</u>	<u>350</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Interm/Prod		<u>12 3/4 / 5 3/4</u>	<u>2800</u>	<u>845</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Interm/Prod		<u>8 3/4 / 7</u>	<u>7530</u>	<u>1150</u>	<u>2600 / CBL</u>
Planned ___ or Existing ___ Prod/Liner					
Planned ___ or Existing ___ Liner					
Planned ___ or Existing <u>OH</u> / PERF		<u>7530 / 870</u>		<u>1170</u>	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>N/L</u>	<u>6500</u>	Drilled TD <u>870</u> PBDT _____
Confining Unit: Litho. Struc. Por.		<u>C540</u>	<u>7530</u>	NEW TD <u>6A</u> NEW PBDT _____
Proposed Inj Interval TOP:			<u>7530</u>	NEW Open Hole <input checked="" type="radio"/> or NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:			<u>870</u>	Tubing Size <u>4 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>7450</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>7450</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1506</u> psi
				Admin. Inj. Press. <u>1500</u> (0.2 psi per ft)

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 CAPITAN REEF: thru adj. NA No. Wells within 1-Mile Radius? 3 FW Analysis _____

Disposal Fluid: Formation Source(s) Green Canyon Analysis? Y 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 Surface 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 3 Horizontals? 0

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

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

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

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

Order Conditions: Issues: C-B-L of 7" casing to 2000'

Add Order Cond: _____