

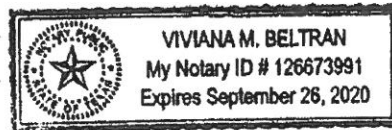
- g. **Exhibit B.7** is a Stratigraphic Cross Section hung on the top of the 3rd Bone Spring Sand Member of the Bone Spring Fm. The well logs on the cross-section give a representative sample of the Lower 2nd Bone Spring Sand Member in the area. The target zone for the **Hayduke 34-3 Federal Com 10H** and **11H** is the Lower 2nd Bone Spring Sand, and that zone is consistent across the unit. The planned well-path for this well is indicated by a blue dashed line, and the letters 'LZ'.
 - h. **Exhibit B.8** is a Net Porosity Map of the Lower 2nd Bone Spring Sand Member (Top Lower 2nd Bone Spring Sand to Top 3rd Bone Spring Sand.). It shows that the formation is relatively uniform across the proposed unit for the **Hayduke 34-3 Federal Com 10H** and **11H** wells. It shows the location of cross-section A-A'.
4. Based upon my study as illustrated in these exhibits, knowledge of the geology in this area, and education and training, it is my expert opinion that:
- a. The horizontal spacing unit is justified from a geologic standpoint.
 - b. There are no structural impediments or faulting that will interfere with horizontal development.
 - c. Each quarter quarter section in the unit will contribute more or less equally to production.
5. The preferred well orientation in this area is either N-S or E-W. This is due to the fact that regional max horizontal stress orientation in this area is approximately N45E.
6. The producing interval for each of these wells will be orthodox and will comply with the Division's set back requirements.
7. I attest that the information provided herein is true, correct and complete to the best of my knowledge and belief.

H. Hastings
Harrison Hastings

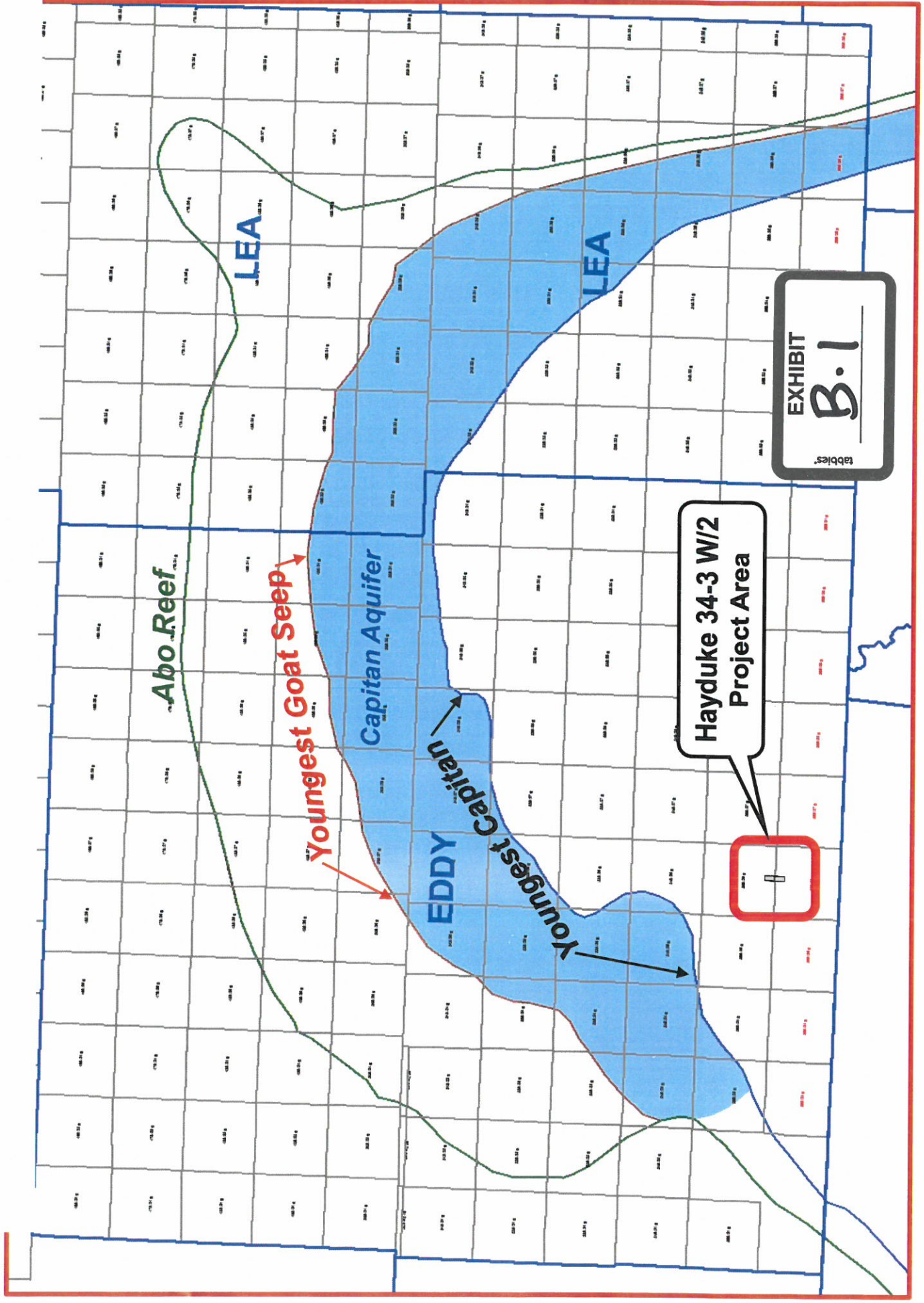
SUBSCRIBED AND SWORN to before me this 2nd day of October 2019 by Harrison Hastings, on behalf of Cimarex Energy Co.

Viviana M. Beltran
Notary Public

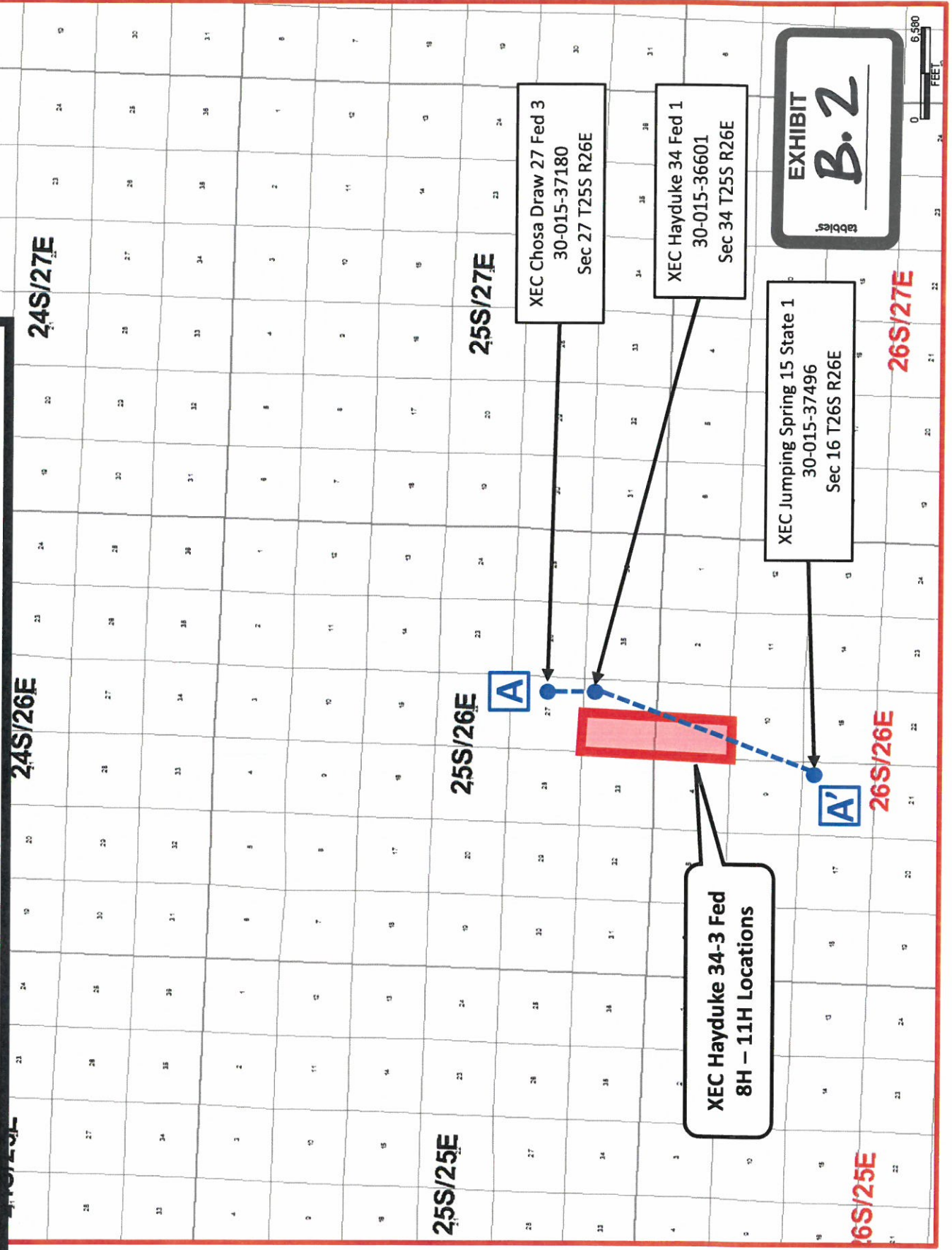
My commission expires: 09/26/2020



Hayduke 34-3 Fed Com W/2 (8H -11H) Locator Map



Cross-Section Locator Map



XEC Hayduke 34-3 Fed

1H – 11H Winerack

Sec 34 - T25S/R26E & Sec 3 - T26S/26E

Eddy Co., NM

Bone Spring Fm.

1st BSPG
SS

2nd
BSPG
Carb

2nd BSPG
SS

Lower 2nd
SS/3rd Carb

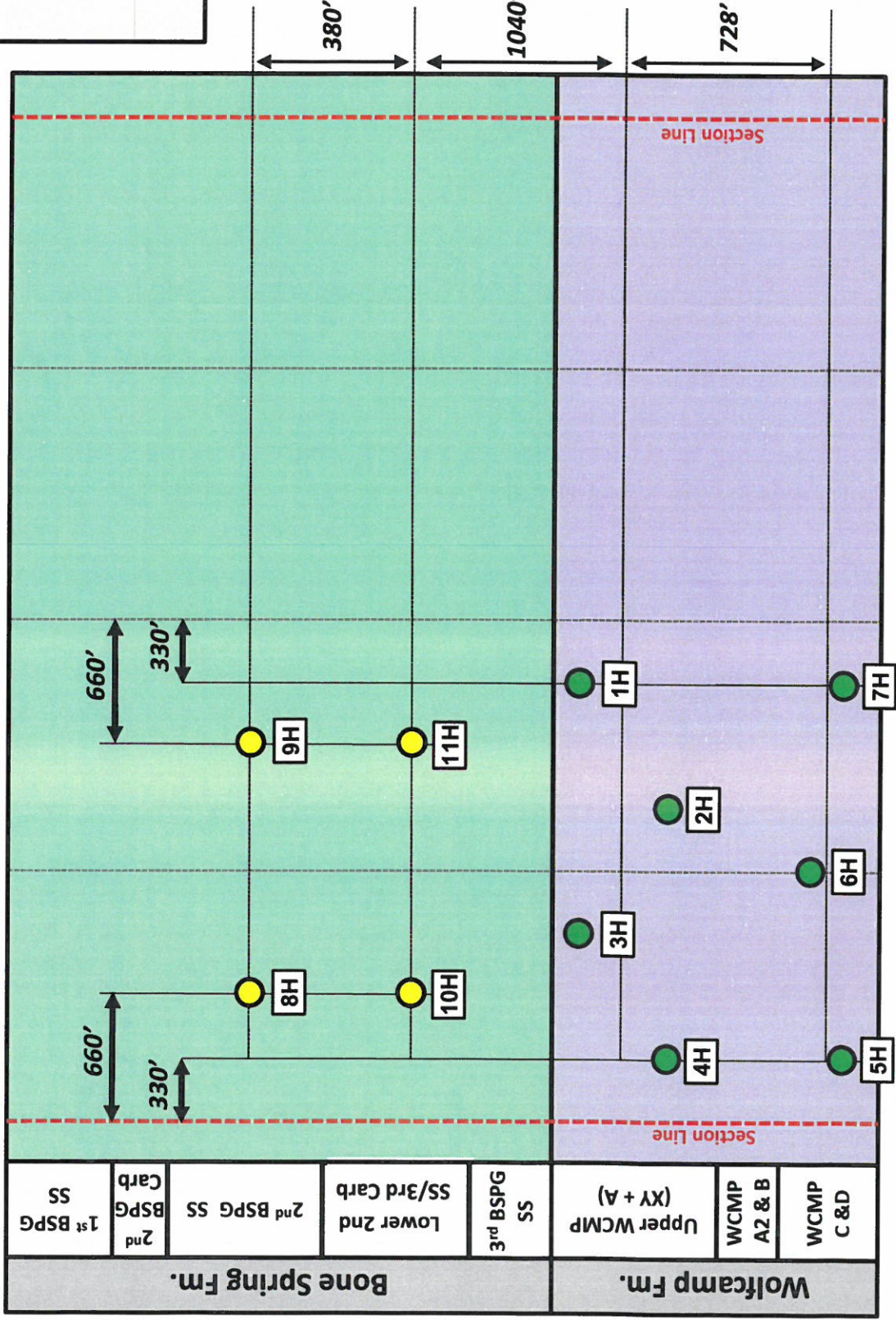
3rd BSPG
SS

Upper WCMP
(XY + A)

WCMP
A2 & B

WCMP
C & D

Wolfcamp Fm.



Hayduke 34-3 W/2



Deep Structure Map

-2650
-2850
-3050
-3250
-3450
-3650
-3850
-4050
-4250
-4450
-4650
-4850
-5050
-5250
-5450
-5650
-5850
-6050
-6250
-6450
-6650
-6850
-7050
-7250
-7450
-7650
-7850
-8050
-8250
-8450
-8650
-8850
-9050
-9250

EXHIBIT
B.4
Tables

XEC Hayduke 34-3 Fed
8H - 11H Locations

Top Wolfcamp Structure

(C.I. 50')

Hayduke 34-3 W/2

Cross-Section A-A'



A

A'

25S/26E

25S/27E

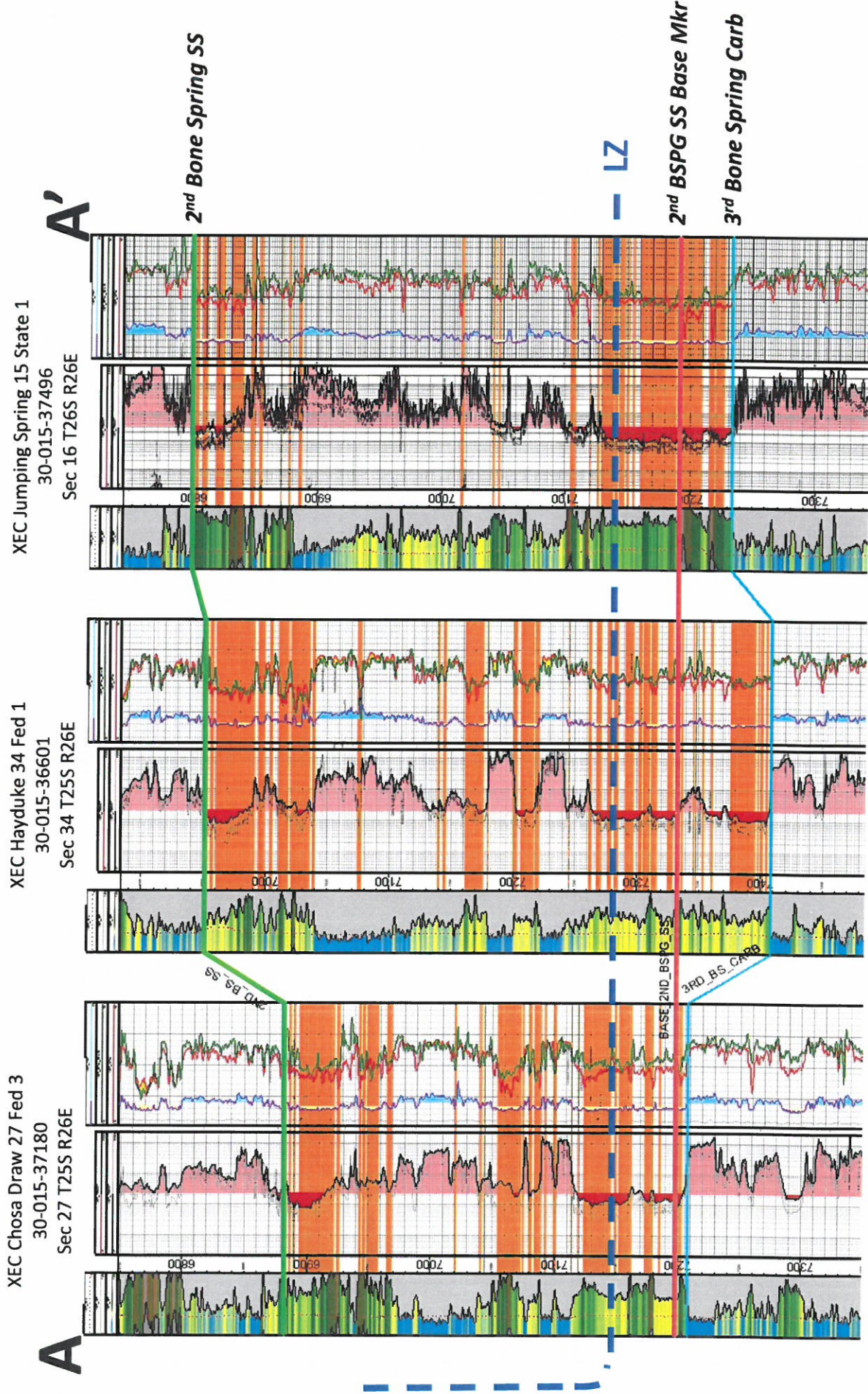
24S/27E

5400
5450
5500
5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
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6100
6150
6200
6250
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9250
9300
9350
9400
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10000

2nd Bone Spring Sand (8H & 9H)

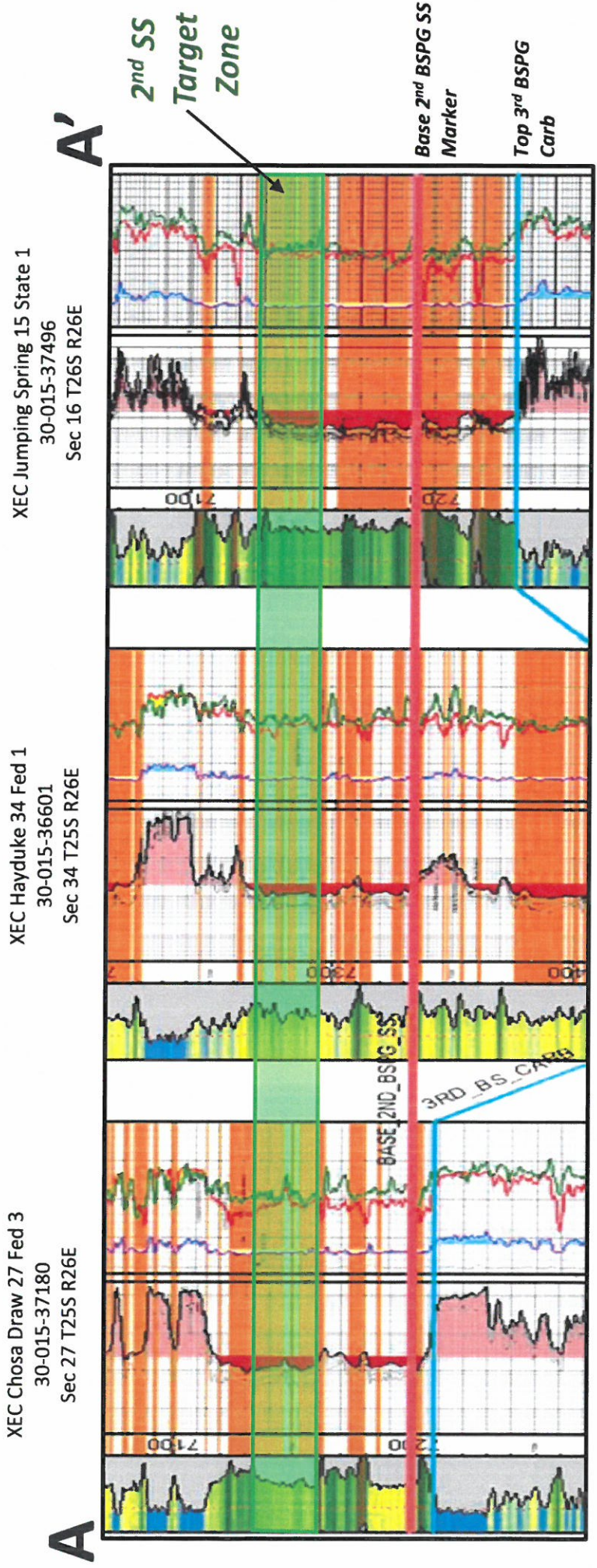


2nd Bone Spring Sand N-S Cross-Section A-A'



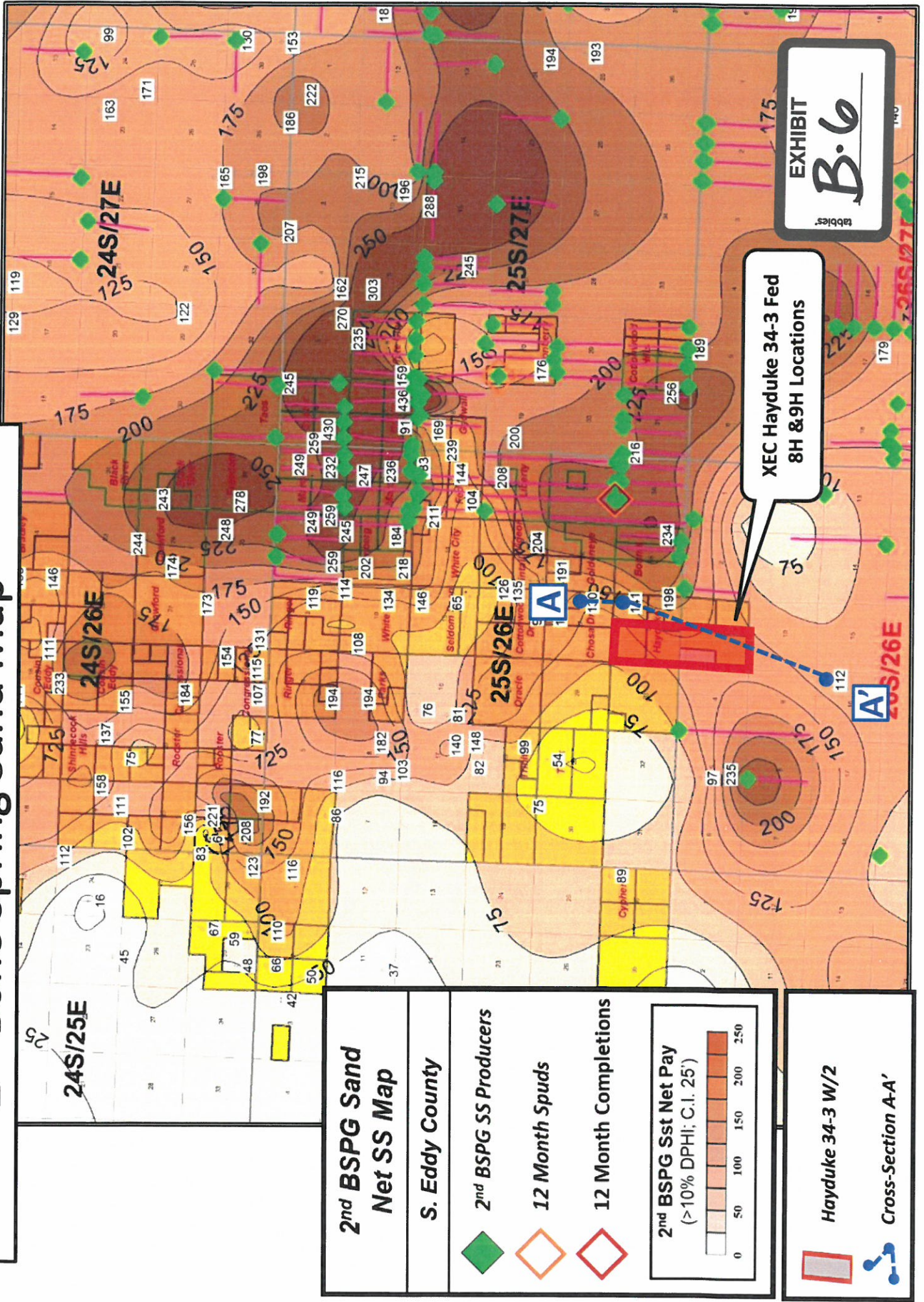
- 2nd Bone Spring SS Net Pay (DPHI >9% DPHI)

2nd Bone Spring Sand N-S Cross-Section A-A' – 2nd SS LZ



- 2nd Bone Spring SS Net Pay (DPHI >9% DPHI)

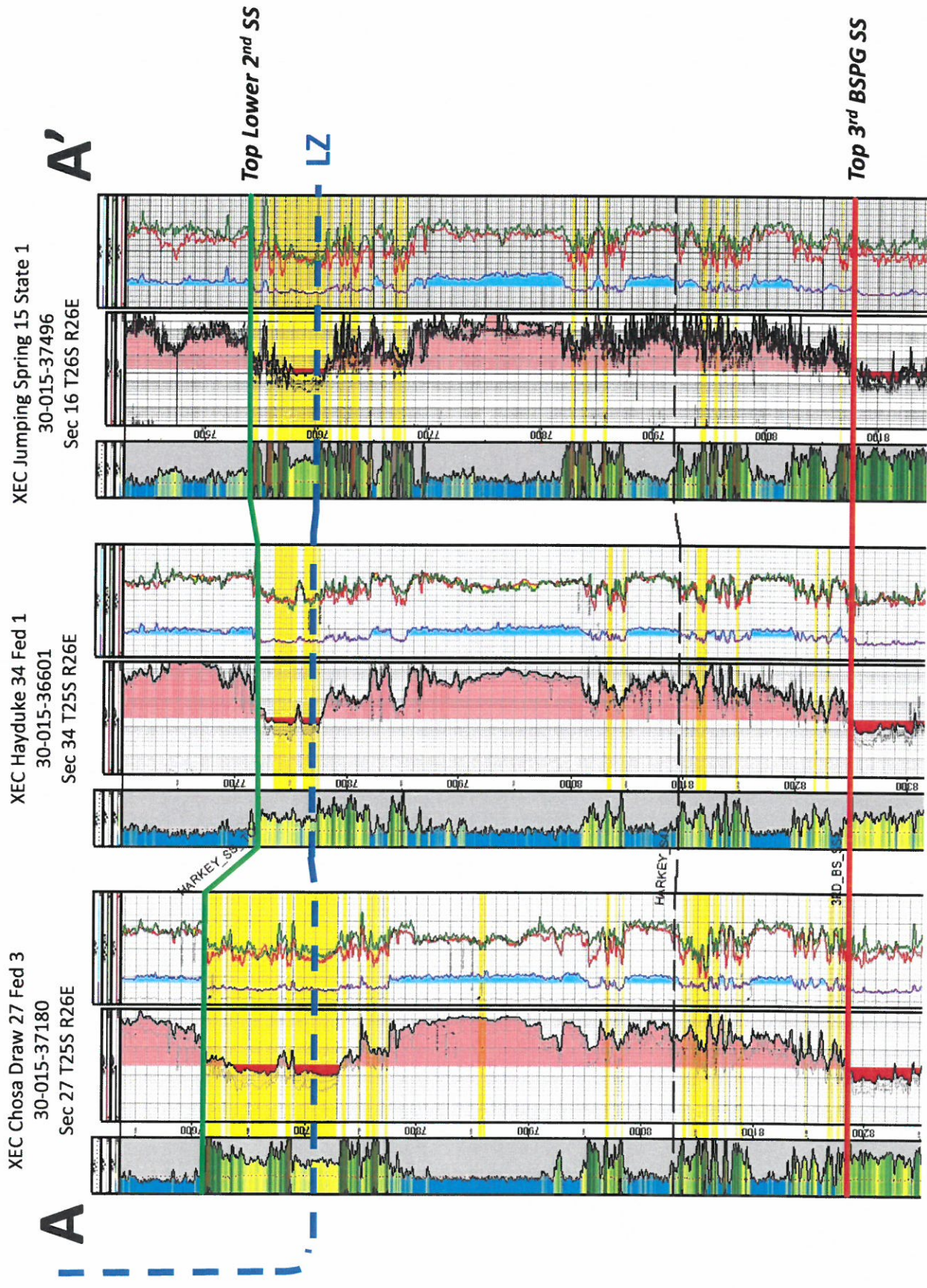
2nd Bone Spring Sand Map



Lower 2nd Bone Spring Sand (10H & 11H)

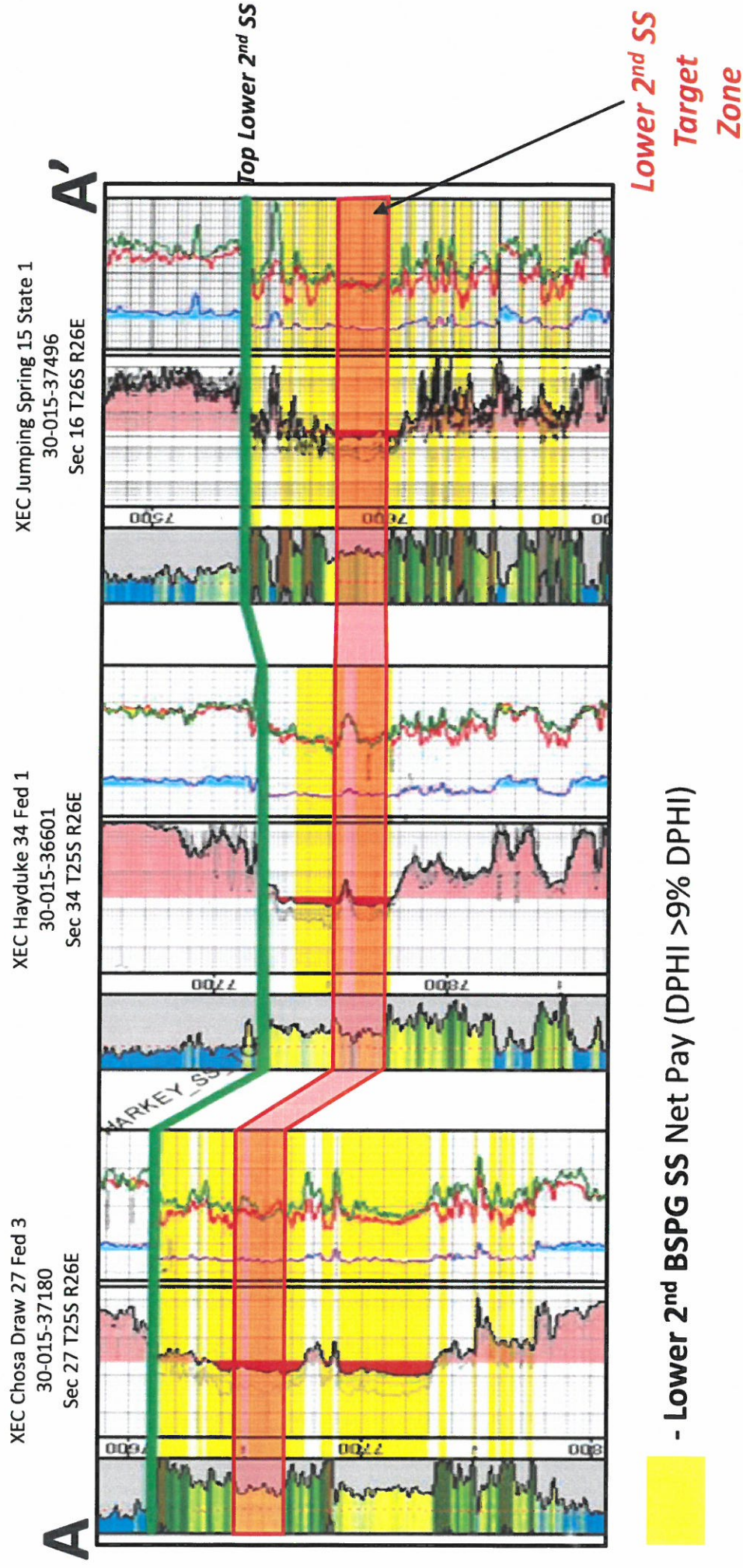


Lower 2nd Bone Spring Sand N-S Cross-Section A-A'



- Lower 2nd BSPG SS Net Pay (DPHI >9% DPHI)

Lower 2nd Bone Spring Sand N-S Cross-Section A-A' - LZ



Lower 2nd BSPG SS Net Porosity Map

S. Eddy County

- 'Harkey' Producers
- 2018 Spuds
- 2018 Completions

Lwr. 2nd SS Pay Map (>10% DPHI; C.I. 25')

0 50 100 150 200 250

Hayduke 34-3 W/2

Cross-Section A-A'

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF CIMAREX
ENERGY CO. FOR COMPULSORY
POOLING, EDDY COUNTY,
NEW MEXICO

CASE NO. 20783

APPLICATION OF CIMAREX
ENERGY CO. FOR COMPULSORY
POOLING, EDDY COUNTY,
NEW MEXICO

CASE NO. 20784

AFFIDAVIT

STATE OF NEW MEXICO)
)ss.
COUNTY OF BERNALILLO)

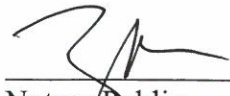
Lance D. Hough, attorney in fact and authorized representative of Cimarex Energy Co., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were provided under the notice letters, and that a mailing list, mailing report, and affidavit of publication are attached hereto. As noted in the Affidavit of Caitlin Pierce, Cimarex Energy Co. has conducted a good faith, diligent effort to find the names and correct addresses for the interest owners entitled to receive notice of the application filed herein.



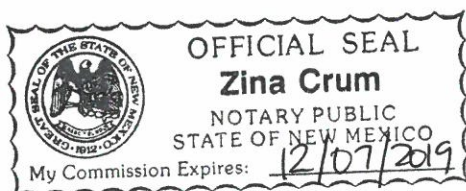
Lance D. Hough

SUBSCRIBED AND SWORN to before me this 2nd day of October 2019 by Lance D. Hough.

S E A L



Notary Public
My commission expires: 12-07-2019



Kathleen Allen
Modrall Spering Rochl Harris & Sisk, P.A.
P.O. Box 2168
Albuquerque NM 87103-2168

PS Form 3877

Type of Mailing: CERTIFIED MAIL
09/10/2019

Hayduke 3A-3



Firm Mailing Book ID: 174215

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0063 1195 14	Irwin E Vinnik & Reva Sandra Vinnik 5062 E Princeton Ave Englewood CO 80110	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
2	9314 8699 0430 0063 1195 21	Celeste C Grynberg 5000 S Quebec St., Ste 500 Denver CO 80237	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
3	9314 8699 0430 0063 1195 38	Robert N. Enfield, Trustee Robert N. Enfield Trust c/o Wells Fargo Bank PO Box 41779 Austin TX 78704	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
4	9314 8699 0430 0063 1195 45	Engfield-Coffield Family Revocable Trust PO Box 8028 Santa Fe NM 87504	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
5	9314 8699 0430 0063 1195 52	Howard A Rubin, Inc 623 1/2 Camino Rancheros Santa Fe NM 87505	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
6	9314 8699 0430 0063 1195 69	Jerune Allen 245 Nicklaus Drive SE Rio Rancho NM 87124	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
7	9314 8699 0430 0063 1195 76	Legacy Reserves Operating LP PO Box 10848 Midland TX 79702	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
8	9314 8699 0430 0063 1195 83	Chevron U.S.A. 6301 Deauville Blvd Midland TX 79706	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
9	9314 8699 0430 0063 1195 90	Mountain Lion Oil & Gas LLC 7941 Katy freeway #117 Houston TX 77024	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
10	9314 8699 0430 0063 1196 06	EOG Resources, Inc. P.O. Box 4362 Houston TX 77210	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
11	9314 8699 0430 0063 1196 13	Bryan Bell Family LLC c/o Frank Robert Janusa PO Box 24591 New Orleans LA 70184	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
12	9314 8699 0430 0063 1196 20	Rubie Crosby Bell Family LLC c/o Frank Robert Janusa PO Box 24591 New Orleans LA 70184	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
13	9314 8699 0430 0063 1196 37	The Estate of Jerune Allen John A Budagher Pers Rep 3500 Comanche Rd NE Bldg B Albuquerque NM 87107	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
14	9314 8699 0430 0063 1196 44	DMA, Inc 9 Ambleside Drive Belleair FL 33756	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice



Kathleen Allen
Modrall Sperling Roehl Harris & Sisk, P.A.
P.O. Box 2168
Albuquerque NM 87103-2168

PS Form 3877

Type of Mailing: CERTIFIED MAIL
09/10/2019



Firm Mailing Book ID: 174215

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
15	9314 8699 0430 0063 1196 51	Charmar, LLC c/o Vikki H Smith 4815 Vista Del Oso Ct NE Albuquerque NM 87109	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
16	9314 8699 0430 0063 1196 68	Lisa M. Enfield, Trustee of Lisa M. Enfield Trust 405 Camino Manzano Santa Fe NM 87505	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
17	9314 8699 0430 0063 1196 75	MLE, LLC PO Box 1683 Santa Fe NM 87504	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
18	9314 8699 0430 0063 1196 82	Richard C. Deason 1301 N Havenhurst #217 West Hollywood CA 90046	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
19	9314 8699 0430 0063 1196 99	Ronald H. Mayer, Trustee of Ronald and Martha Mayer PO Box 2391 Roswell NM 88202	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
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21	9314 8699 0430 0063 1197 12	Barbara Carol Deason 2233 Rock Bridge Ct Yukon OK 73099	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
22	9314 8699 0430 0063 1197 29	Thomas D. Deason 3407 Essex Ave Lubbock TX 79407	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
23	9314 8699 0430 0063 1197 36	Oxy Y-1 Company 5 Greenway Plaza Houston TX 77046	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
24	9314 8699 0430 0063 1197 43	Macondo Fund IV, LLC P.O. Box 4216 Midland TX 79704	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
25	9314 8699 0430 0063 1197 50	Jack J. Greenburg 1050 17th Street, Suite 1950 Denver CO 80265	\$1.30	\$3.50	\$1.60	\$0.00	82762-0183 Hayduke Notice
Totals:			\$32.50	\$87.50	\$40.00	\$0.00	
Grand Total:						\$160.00	

Dated: SEP 10 2019

Postmaster:
Name of receiving employee

List Number of Pieces
Listed by Sender

Total Number of Pieces
Received at Post Office

Transaction Report Details - CertifiedPro.net

Firm Mail Book ID= 174215

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9314869904300063119743	2019-09-10 8:48 AM	Macondo Fund IV, LLC		P.O. Box 4216	Midland	TX	79704	Delivered	Return Receipt - Electronic, Certified Mail	09-13-2019
9314869904300063119736	2019-09-10 8:48 AM	Oxy Y-1 Company		5 Greenway Plaza	Houston	TX	77046	Delivered	Return Receipt - Electronic, Certified Mail	09-16-2019
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9314869904300063119682	2019-09-10 8:48 AM	Richard C. Deason		1301 N Havenhurst #217	West Hollywood	CA	90046	To be Returned	Return Receipt - Electronic, Certified Mail	
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9314869904300063119514	2019-09-10 8:48 AM	Irwin E Vinnik & Reva Sandra Vinnik		5062 E Princeton Ave	Englewood	CO	80110	To be Returned	Return Receipt - Electronic, Certified Mail	

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

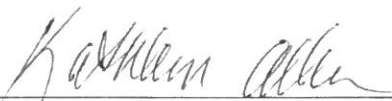
Ad No.
0001296295

MODRALL SPERLING
PO BOX 2168

ALBUQUERQUE NM 87103

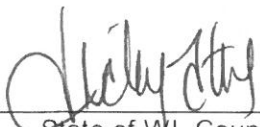
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

09/13/19

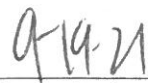


Legal Clerk

Subscribed and sworn before me this
13th of September 2019.



State of WI, County of Brown
NOTARY PUBLIC



My Commission Expires

CASENO. 20783 : Notice to all affected parties, as well as the heirs and devisees of, **Jack J. Greenburg; Irwin E Vinnik and Reven Sanda Vinnik; Celeste C Grynberg; Robert N. Enfield, Trustee Robert N. Enfield Trust; Engfield-Coffield Family Revocable Trust; Howard A. Rubin, Inc.; Jerune Allen; Legacy Reserves Operating LP; Chevron U.S.A.; Mountain Lion Oil & Gas LLC; EOG Resources, Inc.; Bryan Bell Family LLC; Rubie Crosby Bell Family LLC; The Estate of Jerune Allen; DMA, Inc; Charmar, LLC; Lisa M. Enfield, Trustee of Lisa M. Enfield Trust; MLE, LLC; Richard C. Deason; Ronald H. Mayer, Trustee of Ronald Martha Mayer; Sap, LLC; Barbara Carol Deason; Thomas D. Deason; Oxy Y-1 Company; and Macondo Fund IV, LLC, of Cimarex Energy Co.'s application for approval of compulsory pooling, **Eddy County, New Mexico**. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at **8:15 a.m. on October 3, 2019**. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 320-acre, more or less, Bone Spring horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 W/2 of Section 34, Township 25 South, Range 26 East, and W/2 W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Hayduke 34-3 Federal Com 8H and 10H** wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 8.5 miles southeast of Whites City, New Mexico.**

September 13, 2019



CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001296296

MODRALL SPERLING
PO BOX 2168

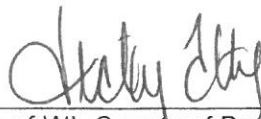
ALBUQUERQUE NM 87103

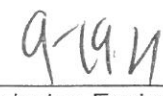
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

09/13/19


Legal Clerk

Subscribed and sworn before me this
13th of September 2019.


State of WI, County of Brown
NOTARY PUBLIC


My Commission Expires

CASENO. 20784 : Notice to all affected parties, as well as the heirs and devisees of, **Jack J. Greenburg; Irwin E Vinnik and Reven Sanda Vinnik; Celeste C Grynberg; Robert N. Enfield, Trustee Robert N. Enfield Trust; Engfield-Coffield Family Revocable Trust; Howard A. Rubin, Inc.; Jerune Allen; Legacy Reserves Operating LP; Chevron U.S.A.; Mountain Lion Oil & Gas LLC; EOG Resources, Inc.; Bryan Bell Family LLC; Rubie Crosby Bell Family LLC; The Estate of Jerune Allen; DMA, Inc; Charmar, LLC; Lisa M. Enfield, Trustee of Lisa M. Enfield Trust; MLE, LLC; Richard C. Deason; Ronald H. Mayer, Trustee of Ronald Martha Mayer; Sap, LLC; Barbara Carol Deason; Thomas D. Deason; Oxy Y-1 Company; and Macondo Fund IV, LLC, of Cimarex Energy Co.'s application for approval of compulsory pooling, Eddy County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at **8:15 a.m. on October 3, 2019**. Applicant seeks an order from the Division: (1) to the extent necessary, approving the creation of a 320-acre, more or less, Bone Spring horizontal spacing unit; and, (2) pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the E/2 W/2 of Section 34, Township 25 South, Range 26 East, and E/2 W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Hayduke 34-3 Federal Com 9H and 11H** wells, to be horizontally drilled. The producing area for these wells will be orthodox. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Cimarex as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 8.5 miles southeast of Whites City, New Mexico.**

September 13, 2019



Exhibit "D"
Case No. 20783

Applicant: Cimarex Energy Co.
Operator: Cimarex Energy Co. (OGRID 215099)

Spacing Unit: Horizontal Oil
Building Blocks: quarter-quarter sections
Spacing Unit Size: 320 acres, more or less
Orientation of Unit: North to South

Spacing Unit Description:

W/2 W/2 of Section 34, Township 25 South, Range 26 East, and W/2 W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico

Pooling this Vertical Extent: Bone Spring Formation
Depth Severance? (Yes/No): No

Pool: WC-015 G-03 S252636M; Bone Spring Pool (ID: 97818)
Pool Spacing Unit Size: quarter-quarter sections
Governing Well Setbacks: Horizontal Oil Well Rules
Pool Rules: Latest Horizontal Rules Apply.

Proximity Tracts: None Included

Monthly charge for supervision: While drilling: \$7000 While producing: \$700
As the charge for risk, 200 percent of reasonable well costs.

Proposed Wells:

Hayduke 34-3 Federal Com 8H

SHL: 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico.

BHL: 100' FSL and 660' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico.

Completion Target: 2nd Bone Spring Sand at approx 7,300 feet TVD.

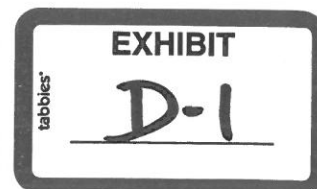
Well Orientation: North to South

Completion Location expected to be: standard

Hayduke 34-3 Federal Com 10H

SHL: 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico.

BHL: 100' FSL and 660' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico.



Case No. 20783

Order No. R-

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Completion Target: 3rd Bone Spring Carb at approx 7,680 feet TVD.

Well Orientation: North to South

Completion Location expected to be: standard

Exhibit "D"
Case No. 20784

Applicant: Cimarex Energy Co.
Operator: Cimarex Energy Co. (OGRID 215099)

Spacing Unit: Horizontal Oil
Building Blocks: quarter-quarter sections
Spacing Unit Size: 320 acres, more or less
Orientation of Unit: North to South

Spacing Unit Description:

E/2 W/2 of Section 34, Township 25 South, Range 26 East, and E/2 W/2 of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico

Pooling this Vertical Extent: Bone Spring Formation
Daepth Severance? (Yes/No): No

WC-015 G-03 S252636M; Bone Spring Pool (ID: 97818)

Pool Spacing Unit Size: quarter-quarter sections
Governing Well Setbacks: Horizontal Oil Well Rules
Pool Rules: Latest Horizontal Rules Apply.

Proximity Tracts: None Included

Monthly charge for supervision: While drilling: \$7000 While producing: \$700
As the charge for risk, 200 percent of reasonable well costs.

Proposed Wells:

Hayduke 34-3 Federal Com 9H

SHL: 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico.

BHL: 100' FSL and 1980' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico.

Completion Target: 2nd Bone Spring Sand at approx 7,300 feet TVD.

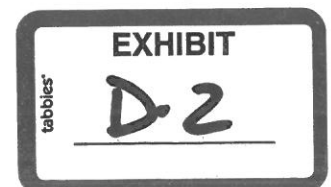
Well Orientation: North to South

Completion Location expected to be: standard

Hayduke 34-3 Federal Com 11H

SHL: 390' FNL and 1310' FWL of Section 34, Township 25 South, Range 26 East, NMPM, Eddy County, New Mexico.

BHL: 100' FSL and 1980' FWL of Section 3, Township 26 South, Range 26 East, NMPM, Eddy County, New Mexico.



Case No. 20784

Order No. R-

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Completion Target: 3rd Bone Spring Carb at approx 7,680 feet TVD.

Well Orientation: North to South

Completion Location expected to be: standard