

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 748-1263 Fax: (505) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax: (505) 476-3468

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|               |                                       |                    |
|---------------|---------------------------------------|--------------------|
| API Number    | Pool Code                             | Pool Name          |
| Property Code | Property Name<br>DESERT ROSE 17-8 FED | Well Number<br>1H  |
| OGRID No.     | Operator Name<br>CAZA OPERATING, LLC. | Elevation<br>3692' |

Surface Location

|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No. | Section | Township | Range | Lot Idn | FEET from the | North/South line | FEET from the | East/West line | County |
| M             | 17      | 20 S     | 35 E  |         | 190           | SOUTH            | 467           | WEST           | LEA    |

Bottom Hole Location If Different From Surface

|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No. | Section | Township | Range | Lot Idn | FEET from the | North/South line | FEET from the | East/West line | County |
| L             | 8       | 20 S     | 35 E  |         | 2335          | SOUTH            | 456           | WEST           | LEA    |

|                 |                 |                    |           |
|-----------------|-----------------|--------------------|-----------|
| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

EXHIBIT

PROPOSED BOTTOM  
HOLE LOCATION

Lat - N 32.586842  
Long - W 103.486536  
NMSPCE- N 578262.0  
E 802153.0  
(NAD-83)

N: 575927.3  
E: 801713.9  
(NAD 83)

PENETRATION POINT  
330 FSL & 467 FWL  
Lat - N 32.566825  
Long - W 103.486514  
NMSPCE- N 570980.0  
E 802218.0  
(NAD-83)

SURFACE LOCATION  
Lat - N 32.566442  
Long - W 103.486514  
NMSPCE- N 570840.0  
E 802219.0  
(NAD-83)

N: 570846.6  
E: 801753.5  
(NAD 83)

N: 570682.7  
E: 807035.4  
(NAD 83)

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 unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

Email Address \_\_\_\_\_

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.

SEPTEMBER 26, 2017

Date Surveyed \_\_\_\_\_

Signature of Professional Surveyor \_\_\_\_\_

Certificate No. 7977

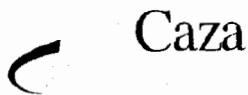
Surveyor Name: Gary Lopez

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

WO Num.: 33296

Case 15962 4/5/18



VIA EMAIL AND FEDEX

November 28, 2017

To: All Working Interest Owners  
(See attached Address List)

Re: **CORRECTED WELL PROPOSAL**  
Well Proposal (1.5-mile Bone Spring lateral)  
Desert Rose 17-8 Fed Com #1H Well  
W/2 W/2 Section 17, and W/2 SW/4 Section 8  
Township 20 South-Range 35 East  
Laguna North Prospect  
Lea County, New Mexico

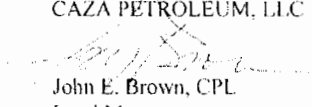
Ladies and Gentlemen:

Caza's letter dated November 17, 2017, proposed the drilling of the Desert Rose 17-8 Fed Com #1H well and inadvertently referenced incorrect depths and locations for the well. The **correct information** for this well is for a 3<sup>rd</sup> Bone Spring test to a projected total vertical depth of 11,250' and measured depth of 18,925' from an approximate surface location of 190' FSL and 467' FWL of Section 17 to an approximate bottom hole location 2,360' FSL and 370' FWL of Section 8, T20S-R35E, Lea County, New Mexico.

As stated in Caza's letter of November 17, 2017, Caza proposes the well to be on a 240-acre unit comprised of the W/2 W/2 of Section 17 and the W/2 SW/4 of Section 8. Enclosed is Caza's AFE dated October 17, 2017, estimating the dry hole cost to be \$2,533,176 and the completed well cost to be \$9,896,306. Costs will be shared by the parties on a proportionate unit surface acre basis. The Operating Agreement will follow under separate cover. This well proposal supersedes the previous well proposal by Caza for a well by the same name proposed as a 1-mile Bone Spring lateral in the W/2 W/2 of Section 17 and also supersedes the well proposal dated November 17, 2017.

Please indicate your proportionate participation election in such well, by signing in the appropriate spaces provided below and returning executed copies of 1) this letter and 2) the AFE to Jeannie Roberts at [jroberts@cazapetroleum.com](mailto:jroberts@cazapetroleum.com). Caza shall appreciate your response as soon as possible as it anticipates spudding this well approximately January 15, 2018. Should you have any questions, please do not hesitate to contact me at 832-381-3854 or [jbrown@cazapetroleum.com](mailto:jbrown@cazapetroleum.com). Operational questions should be directed to Tony Sam at 432-556-6708.

Very truly yours,  
CAZA PETROLEUM, LLC

  
John E. Brown, CPL  
Land Manager

We hereby elect as follows, this \_\_\_\_\_ day of November, 2017:

\_\_\_\_\_ Elect to PARTICIPATE in the drilling of the Desert Rose 17-8 Fed Com #1H well, or

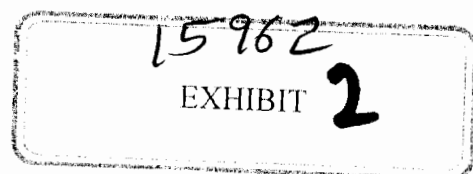
\_\_\_\_\_ Elect NOT TO PARTICIPATE in the drilling of the Desert Rose 17-8 Fed Com #1H well.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_



**Working Interest Owners:**

Caza Petroleum, LLC, et al  
Attn: Rich Albro  
4 Greenspoint Place  
16945 Northchase Drive, Suite 1430  
Houston, Texas 77060  
[ralbro@cazapetro.com](mailto:ralbro@cazapetro.com)

COG Operating, LLC  
Attn: Rita Burress  
One Concho Center  
600 W. Illinois Avenue  
Midland, Texas 79701  
[rburress@concho.com](mailto:rburress@concho.com)

Chevron U. S. A.  
Attn: Shalyce Holmes  
Attn: Israel Yeke  
1400 Smith Street  
Houston, Texas 77002  
[SHolmes@chevron.com](mailto:SHolmes@chevron.com)  
[Israel.yeke@chevron.com](mailto:Israel.yeke@chevron.com)

Devon Energy Corporation  
Attn: Katie Dean  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102-5015  
[katie.dean@dev.com](mailto:katie.dean@dev.com)

**Total Working Interest**

**Proposed Working Interest:**

72.921667%

16.666667%

8.333333%

2.078333%

---

100.000000%



**AUTHORITY FOR EXPENDITURE**  
New Drilling, Recompletion & Re-Entry

AFE Number: 52067  
AFE Date: 10/11/2017

Well Name: Desert Rose 17-1H  
Location Sec 17, T20S, R35E  
SHL: 190 FSL - 457 FWL, Sec 17  
BHL: 2360 FSL - 370 FWL, Sec 8,

County, State: Lea, New Mexico  
Field: Lea Bone Spring, South  
Horizon: 3rd Bone Springs  
Projected Depth: 11,250' TVD/18,925' NIC

☒ New Drill  
☐ Recompletion  
☐ Re-Entry  
☐ Oil  
☐ Gas  
☐ Injector  
☒ Drilling/Completion  
☐ Re-Entry

| Drill and complete Drill Hole (1.5 mile) Product   |      |                      |      |                        |                  |
|----------------------------------------------------|------|----------------------|------|------------------------|------------------|
|                                                    | Code | Drilling Intangibles | Code | Completion Intangibles | Total Cost       |
| Permits/Well Signs                                 | 1-01 | 7,986                | 3-03 |                        | 7,986            |
| Leases/Right of Way                                | 1-02 | 10,650               | 3-02 |                        | 10,650           |
| Locations and Roads                                | 1-04 | 101,175              | 3-25 | 101,175                | 202,350          |
| Pipe and Liners                                    | 1-05 |                      | 3-74 |                        |                  |
| Drilling Day Work                                  | 1-09 | 360,506              | 3-39 | 43,452                 | 403,958          |
| Completion Day Work                                |      |                      | 3-38 | 15,336                 | 15,336           |
| GRS                                                | 1-10 | 55,913               | 3-40 |                        | 55,913           |
| SALE/BAZAR/Comobilization                          | 1-11 | 159,750              |      |                        | 159,750          |
| Drilling                                           | 1-12 |                      |      |                        |                  |
| Mud Logging                                        | 1-13 |                      |      |                        |                  |
| Drill Hole Surveys/ Gyro                           | 1-14 | 23,934               |      |                        | 23,934           |
| Water                                              | 1-15 | 5,325                |      |                        | 5,325            |
| Fire                                               | 1-16 | 40,443               | 3-72 | 1,108,796              | 1,157,241        |
| Mud Solids/Weight                                  | 1-17 | 155,469              | 3-46 | 13,117                 | 168,586          |
| Regular Inspection                                 | 1-18 | 112,800              | 3-71 | 2,663                  | 115,463          |
| Fluid Equipment                                    | 1-19 | 12,244               | 3-44 | 4,280                  | 16,524           |
| Drilling Crew                                      | 1-21 | 29,807               | 3-41 | 16,508                 | 46,315           |
| Drilling Crew                                      | 1-21 | 18,508               | 3-73 | 17,040                 | 35,548           |
| Drilling                                           | 1-22 | 6,901                | 3-77 | 15,075                 | 22,876           |
| Drilling                                           | 1-23 | 19,170               |      |                        | 19,170           |
| Drilling Supervision (Engineer)                    | 1-24 | 201,011              |      |                        | 201,011          |
| Geologist                                          | 1-25 | 36,051               |      |                        | 36,051           |
| Insurance                                          | 1-26 | 11,711               |      |                        | 11,711           |
| Drilling Consultant                                | 1-27 | 9,463                | 3-47 | 9,475                  | 18,938           |
| Drilling Consultants                               | 1-28 | 78,808               |      |                        | 78,808           |
| Drilling Consultants                               |      |                      | 3-42 | 30,064                 | 30,064           |
| Drilling and Abandon                               | 1-29 | 6,000                | 3-48 |                        | 6,000            |
| Drilling and Stake Location                        | 1-31 |                      |      |                        |                  |
| Drilling Intermediate                              | 1-32 | 5,325                |      |                        | 5,325            |
| Drilling Intermediate                              | 1-33 | 44,730               |      |                        | 44,730           |
| Drilling Production                                |      |                      | 3-37 | 72,421                 | 72,421           |
| Wireline & Coiled Tubing Services                  | 1-34 | 7,986                | 3-45 | 263,588                | 271,574          |
| Open Hole Logs                                     | 1-34 |                      | 3-43 |                        |                  |
| Drilling Services                                  | 1-38 |                      |      |                        |                  |
| Drilling                                           | 1-39 | 4,281                | 3-46 | 652                    | 4,933            |
| Whipstock                                          | 1-43 |                      |      |                        |                  |
| Cased Loop Solids Control Equipment                | 1-45 | 90,127               | 3-07 |                        | 90,127           |
| Drilling Up & BOP Test                             | 1-46 | 9,585                | 3-55 |                        | 9,585            |
| Contract Service and Equipment                     | 1-56 | 38,960               | 3-31 | 10,860                 | 49,840           |
| Telecom                                            | 1-57 | 9,914                | 3-69 | 4,699                  | 14,613           |
| Simulation                                         | 1-58 |                      | 3-49 | 4,082,145              | 4,082,145        |
| Bond Log, Perforating                              |      |                      | 3-42 | 50,000                 | 50,000           |
| Drilling Housing                                   | 1-63 | 31,995               | 3-48 | 1,561                  | 33,556           |
| Drilling                                           | 1-70 | 52,155               | 3-53 | 32,376                 | 84,531           |
| Cased Loop Haul-off/Disposal                       | 1-85 | 229,387              | 3-14 | 49,761                 | 279,148          |
| Other Spec Equip & Services                        | 1-90 | 6,124                |      |                        | 6,124            |
| Surface Rental Equipment                           | 1-96 |                      | 3-47 | 40,497                 | 40,497           |
| Drilling and mud cleaning                          | 1-97 | 12,392               |      |                        | 12,392           |
| Drilling & Laydown, Roustabout Labor, Welder       | 1-98 | 7,455                |      | 12,000                 | 19,455           |
| Title & Abstracts, Drilling Title Opinion          | 1-99 | 10,000               | 3-48 |                        | 10,000           |
| Overhead - Well Engineering, Geologist, Consulting | 1-99 | 15,975               |      |                        | 15,975           |
| Contingency 10%                                    | 1-40 | 204,186              | 3-30 | 588,067                | 800,496          |
| <b>TOTAL INTANGIBLES</b>                           |      | <b>2,247,910</b>     |      | <b>6,652,520</b>       | <b>8,851,429</b> |

|                                                           | Code | Drilling Tangibles | Code | Completion Tangibles | Total Cost       |
|-----------------------------------------------------------|------|--------------------|------|----------------------|------------------|
| Wellhead                                                  | 2-36 | 16,060             | 4-53 | 7,596                | 23,656           |
| Conductor                                                 | 2-32 | 8,505              |      | 0                    | 8,505            |
| Casing 13-3/8" 54.5#, J-55, STC - 1800ft @ 34.4ft         | 2-33 | 65,945             |      | 0                    | 65,945           |
| 9-5/8" 40#, J-55-HCL-80, BTC - 5650ft @ 27.1ft            | 2-34 | 168,217            |      | 0                    | 168,217          |
| 5-1/2" 20#, P-110, BTC - 18925ft @ 17.25ft/ft             |      |                    | 4-54 | 347,676              | 347,676          |
| Tubing 2-7/8" 6.5#, L-80, EUE 8RD - 10400ft @ 4.15ft      |      |                    | 4-55 | 47,735               | 47,735           |
| Liner Hanger & Horizontal Completion System, Packers      |      |                    | 4-55 | 12,780               | 12,780           |
| Wellhead, Valves, Fittings                                |      |                    | 4-59 | 26,621               | 26,621           |
| Wellhead Controls/Storage Facilities/Electrical Equipment |      |                    | 4-65 | 111,825              | 111,825          |
| Drilling Equipment                                        |      |                    | 4-68 | 14,910               | 14,910           |
| Drilling Tangible Equipment                               |      |                    | 4-68 | 21,300               | 21,300           |
| Drilling Equipment                                        |      |                    | 4-61 | 85,200               | 85,200           |
| Compressors/Dehydrators                                   |      |                    | 4-67 | 14,910               | 14,910           |
| Contingency 10%                                           | 1-40 | 20,540             | 4-70 | 69,058               | 95,598           |
| <b>TOTAL TANGIBLES</b>                                    |      | <b>285,258</b>     |      | <b>799,611</b>       | <b>1,044,877</b> |
| <b>TOTAL WELL COST</b>                                    |      | <b>2,633,178</b>   |      | <b>7,583,130</b>     | <b>9,886,306</b> |

Prepared By: Tony A. Sam

Date: 10/17/17

Company Approval: *Tony A. Sam*  
V.P. Operations

Date: 10/17/17

**CAZA APPROVAL**

Land:  
COO:  
Asst:  
Pres:

Joint Owner Approval:

Joint Owner:

Joint Owner Approval:

By execution of this AFE, the above signer is agreeing to be covered by the Operator's well control insurance and agreeing to the limits within and carrier of such insurance, neither of which is guaranteed as sufficient by Operator. In order to decline coverage by Operator's well control insurance, you must sign below and provide a Certificate of Insurance with waiver of subrogation prior to sign date and agree to hold Operator harmless for any loss to your interest not covered by your insurance or as otherwise set forth in Exhibit O of the Joint Operating Agreement.

Agree to decline coverage, provide proof, and hold harmless:

By:

Date:

3  
EXHIBIT

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

**APPLICATION OF CAZA PETROLEUM, LLC  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY  
POOLING, LEA COUNTY, NEW MEXICO.**

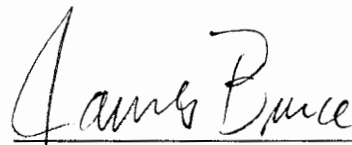
**Case No. 15962**

**AFFIDAVIT OF NOTICE**

COUNTY OF SANTA FE     )  
                                          ) ss.  
STATE OF NEW MEXICO    )

James Bruce, being duly sworn upon his oath, deposes and states:

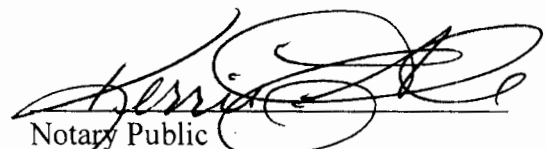
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Caza Petroleum, LLC.
3. Caza Petroleum, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the interest owner, at its last known address, by certified mail. Copies of the notice letter and certified return receipt are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules NMAC 19.15.4.9 and 19.15.4.12.C.

  
\_\_\_\_\_  
James Bruce

SUBSCRIBED AND SWORN TO before me this 4<sup>th</sup> day of April, 2018 by James Bruce.

My Commission Expires:



  
\_\_\_\_\_  
Notary Public



**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

January 18, 2018

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

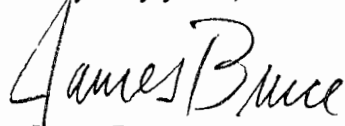
Ladies and gentlemen:

Enclosed is a copy of an application for a non-standard unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Caza Petroleum, LLC, regarding a Bone Spring well the W $\frac{1}{2}$ W $\frac{1}{2}$  of Section 17 and the W $\frac{1}{2}$ SW $\frac{1}{4}$  of Section 8, Township 20 South, Range 35 East, N.M.P.M., Lea County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, February 8, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting the matter at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, February 1, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

  
James Bruce

Attorney for Caza Petroleum, LLC



Exhibit A

COG Operating LLC  
600 West Illinois  
Midland, Texas 79701

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

Attention: Permitting Team

Devon Energy Production Company, L.P.  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102

Attention: Katie Dean

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

COG Operating LLC  
600 West Illinois  
Midland, Texas 79701

2. Article Number (Transfer from service label)  
7017 2680 0000 1773 6117

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

3. Service Type

☐ Adult Signature  
☒ Adult Signature Restricted Delivery  
☐ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

3. Service Type

☐ Priority Mail Express®  
☐ Registered Mail™  
☒ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

4. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

1. Article Addressed to:

COG Operating LLC  
600 West Illinois  
Midland, Texas 79701

2. Article Number (Transfer from service label)  
7017 2680 0000 1773 6117

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

3. Service Type

☐ Adult Signature  
☒ Adult Signature Restricted Delivery  
☐ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

3. Service Type

☐ Priority Mail Express®  
☐ Registered Mail™  
☒ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

4. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®

Postmark Here

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 \$

Sent To

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

Street and Apt. No., or P.O. Box

City, State, ZIP+4®

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

See Reverse for Instructions

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®

Postmark Here

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 \$

Sent To

COG Operating LLC  
600 West Illinois  
Midland, Texas 79701

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

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

2. Article Number (Transfer from service label)  
7017 2680 0000 1773 6117

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

3. Service Type

☐ Adult Signature  
☒ Adult Signature Restricted Delivery  
☐ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

3. Service Type

☐ Priority Mail Express®  
☐ Registered Mail™  
☒ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

4. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent

B. Received by (Printed Name) ☐ Addressee

C. Date of Delivery 9/22/18

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

☐ Adult Signature  
☒ Adult Signature Restricted Delivery  
☐ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

3. Service Type

☐ Priority Mail Express®  
☐ Registered Mail™  
☒ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

4. Is delivery address different from item 1? ☐ Yes ☐ No

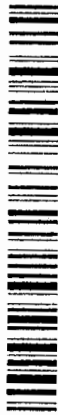
If YES, enter delivery address below:

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

**1. Article Addressed to:**

Devon Energy Production Company, L.P.  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma 73102



9590 9402 3452 7275 9558 80

**2. Article Number (Transfer from service label)**

7017 2680 0000 1773 6124

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

**A. Signature**

☐ Agent

☐ Addressee

**B. Received by (Printed Name)** C. Date of Delivery

**D. Is delivery address different from item-1?** ☐ Yes ☐ No  
If YES, enter delivery address below:

- 3. Service Type**
- ☐ Adult Signature
  - ☐ Adult Signature Restricted Delivery
  - ☐ Certified Mail®
  - ☐ Certified Mail Restricted Delivery
  - ☐ Collect on Delivery
  - ☐ Collect on Delivery Restricted Delivery
  - ☐ Restricted Delivery
  - ☐ Priority Mail Express®
  - ☐ Registered Mail™
  - ☐ Registered Mail Restricted Delivery
  - ☐ Return Receipt for Merchandise
  - ☐ Signature Confirmation™
  - ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®

|                                                              |    |               |
|--------------------------------------------------------------|----|---------------|
| Certified Mail Fee                                           | \$ | Postmark Here |
| 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                                                      | \$ |               |
| <b>Total Postage and Fees</b>                                | \$ |               |

Sent To Devon Energy Production Company, L.P.  
333 West Sheridan Avenue  
Street and Apt. No. Oklahoma City, Oklahoma 73102  
City, State, ZIP+4®

PS Form 3811, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2680 0000 1773 6124

Offset Operators/Working Interest Owners

NW/4 Section 8

Caza Petroleum, LLC

NE/4SW/4 Section 8

Caza Petroleum, LLC

Chevron U.S.A. Inc.

Devon Energy Production Company, L.P.

SE4SW/4 Section 8

Caza Operating, LLC

E/2W/2 Section 17

Chevron U.S.A. Inc.

N/2N/2 Section 20

ConocoPhillips Company

NE/4NE/4 Section 19

Caza Petroleum, LLC

E/2E/2 Section 18

COG Operating LLC

E/2E/2 Section 7

Cimarex Energy Co.

EXHIBIT

5

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

APPLICATION OF CAZA PETROLEUM, LLC  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY  
POOLING, LEA COUNTY, NEW MEXICO.

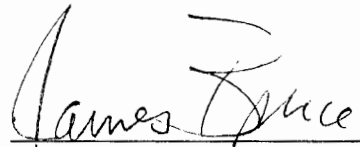
Case 15962

AFFIDAVIT OF NOTICE

COUNTY OF SANTA FE    )  
                                          ) ss.  
STATE OF NEW MEXICO    )

James Bruce, being duly sworn upon his oath, deposes and states:

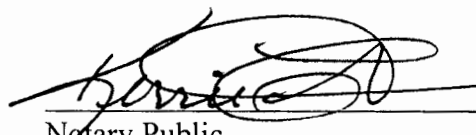
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Caza Petroleum, LLC.
3. Caza Petroleum, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the offset operators or working interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the offsets by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules NMAC 19.15.4.9 and 19.15.4.12.C.

  
James Bruce

SUBSCRIBED AND SWORN TO before me this 4<sup>th</sup> day of April, 2018 by James Bruce.

My Commission Expires:



  
Notary Public

EXHIBIT

6

JAMES BRUCE  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

January 19, 2018

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

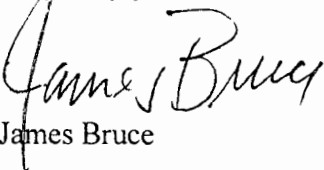
Ladies and gentlemen:

Enclosed is a copy of an application for a non-standard unit, *etc.*, filed with the New Mexico Oil Conservation Division by Caza Petroleum, LLC, regarding a Bone Spring well the W $\frac{1}{2}$ W $\frac{1}{2}$  of Section 17 and the W $\frac{1}{2}$ SW $\frac{1}{4}$  of Section 8, Township 20 South, Range 35 East, N.M.P.M., Lea County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, February 8, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but **as an offset operator or interest owner** that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting the matter at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, February 1, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

  
James Bruce

Attorney for Caza Petroleum, LLC

ATTACHMENT

A

EXHIBIT A

ConocoPhillips Company  
EC3-10-W285  
600 North Dairy Ashford  
Houston, Texas 77079

Cimarex Energy Co.  
Suite 600  
600 North Marienfeld  
Midland, Texas 79701

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Cimarex Energy Co.  
Suite 600  
600 North Marienfeld  
Midland, Texas 79701



9590 9402 2691 6351 9017 35

2. Article Number (Transfer from carrier label)

7017 2680 0000 1773 6445

PS Form 3811, July 2015 PSN 7530-02-000-9053

CA2A

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) David Carda C. Date of Delivery 7/29/15
- D. Is delivery address different from item 1? ☐ Yes ☐ No
- If YES, enter delivery address below:

3. Service Type
- ☐ Priority Mail Express®
  - ☐ Registered Mail™
  - ☐ Adult Signature Restricted Delivery
  - ☐ Certified Mail®
  - ☐ Return Receipt for Merchandise
  - ☐ Signature Confirmation™
  - ☐ Restricted Delivery

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://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 \$

Sent To Cimarex Energy Co.  
Suite 600  
600 North Marienfeld  
Midland, Texas 79701

City, State, ZIP+4®

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

7017 2680 0000 1773 6445

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ConocoPhillips Company  
EC3-10-W285  
600 North Dairy Ashford  
Houston, Texas 77079



9590 9402 2691 6351 9017 42

2. Article Number (Transfer from carrier label)

7017 2680 0000 1773 6438

PS Form 3811, July 2015 PSN 7530-02-000-9053

CA2A

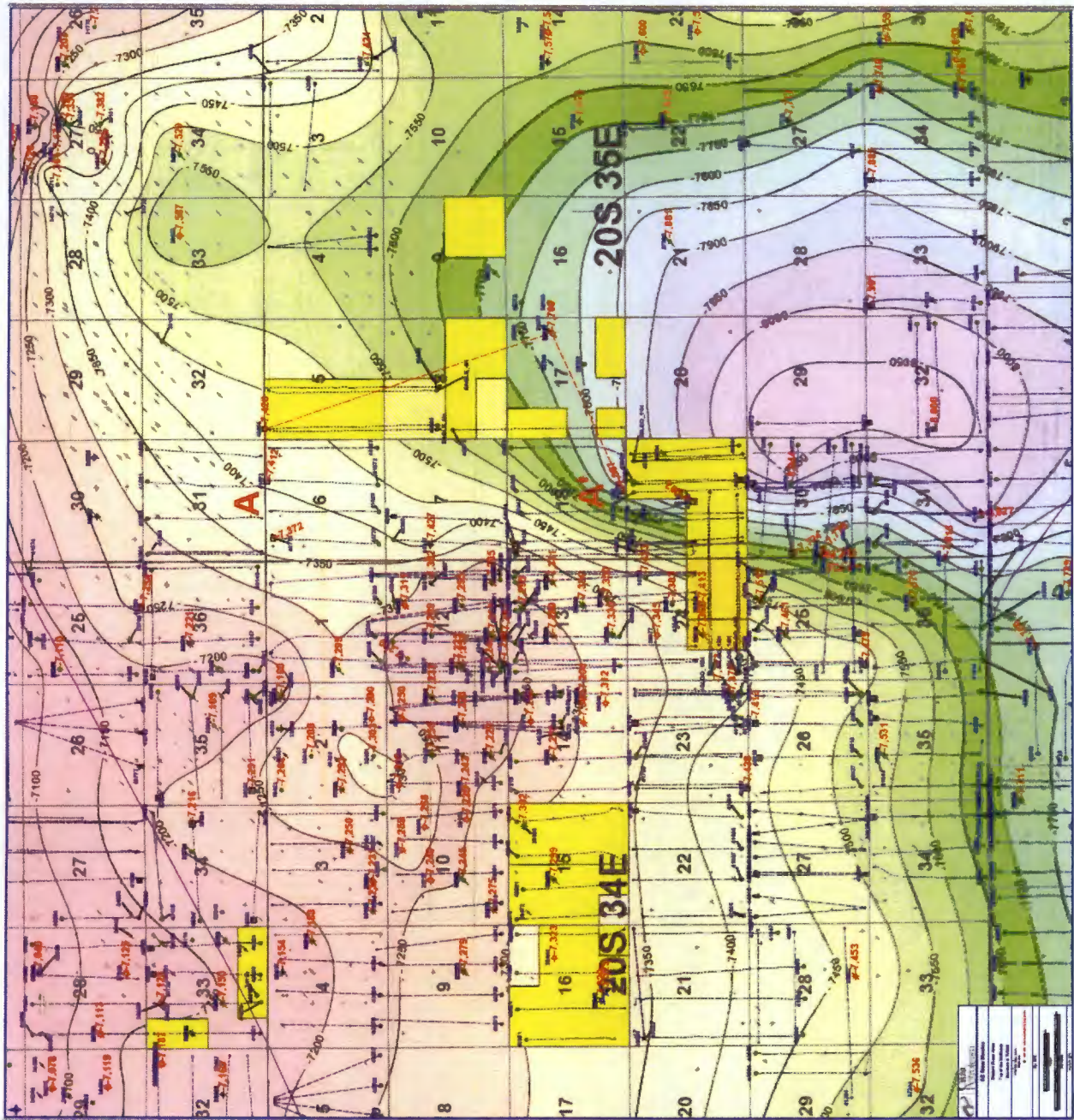
Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) [Signature] C. Date of Delivery 7/29/15
- D. Is delivery address different from item 1? ☐ Yes ☐ No
- If YES, enter delivery address below:

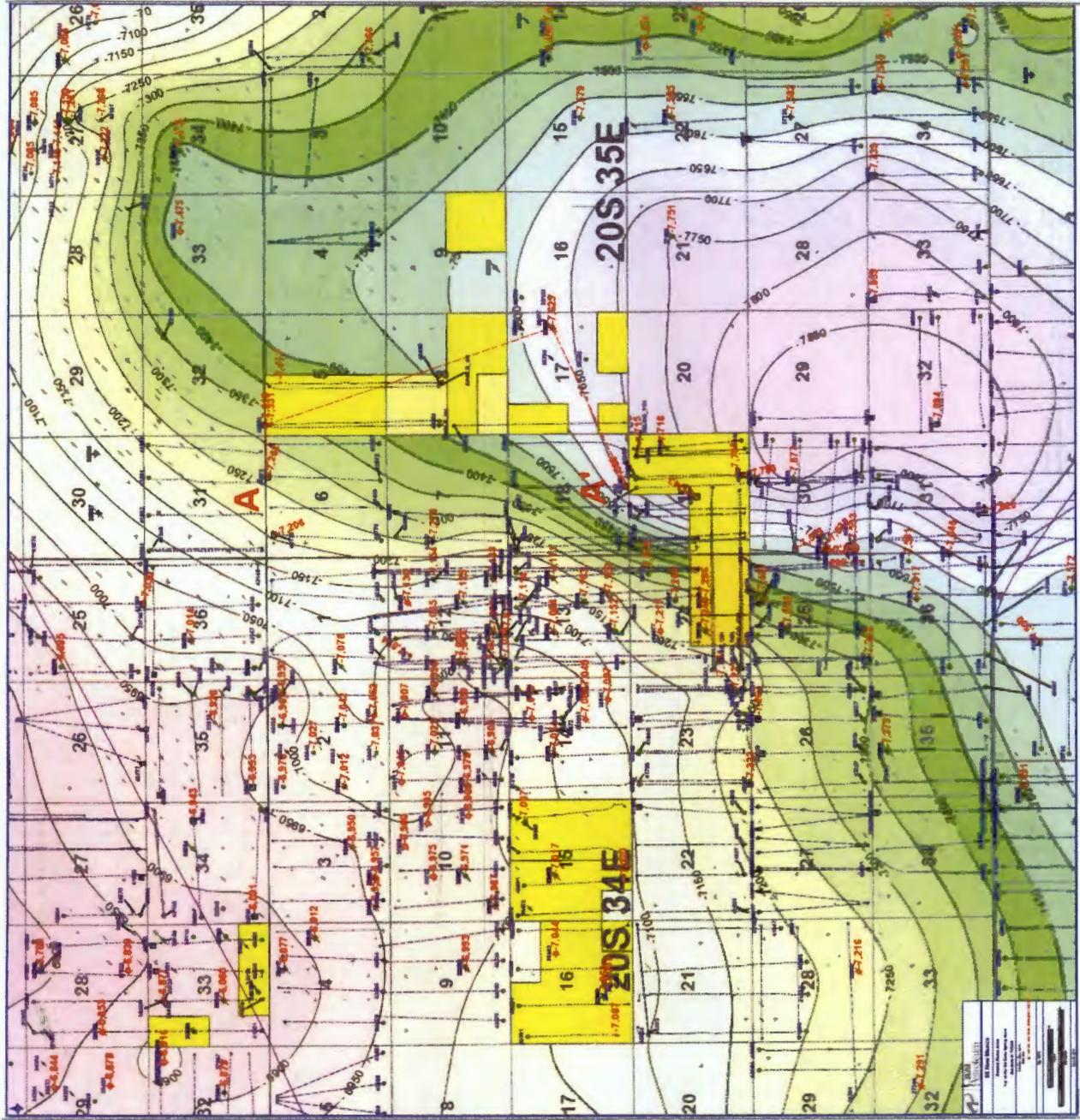
3. Service Type
- ☐ Priority Mail Express®
  - ☐ Registered Mail™
  - ☐ Adult Signature Restricted Delivery
  - ☐ Certified Mail®
  - ☐ Return Receipt for Merchandise
  - ☐ Signature Confirmation™
  - ☐ Restricted Delivery

|                                                                                                                       |                       |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                    | <b>Caza Petroleum</b> |
| <b>SE New Mexico</b>                                                                                                  |                       |
| <b>Desert Rose Area</b>                                                                                               |                       |
| <b>Top of the Wolfcamp</b>                                                                                            |                       |
| <b>Structure in TVDSS</b>                                                                                             |                       |
| POSTED WELL DATA<br>Well Label <ul style="list-style-type: none"> <li>● FMTOPS - WOLFCAIMPREFC (8s) (FEET)</li> </ul> |                       |
| By: RFC                                                                                                               |                       |
|                                    |                       |
| March 28, 2018                                                                                                        |                       |

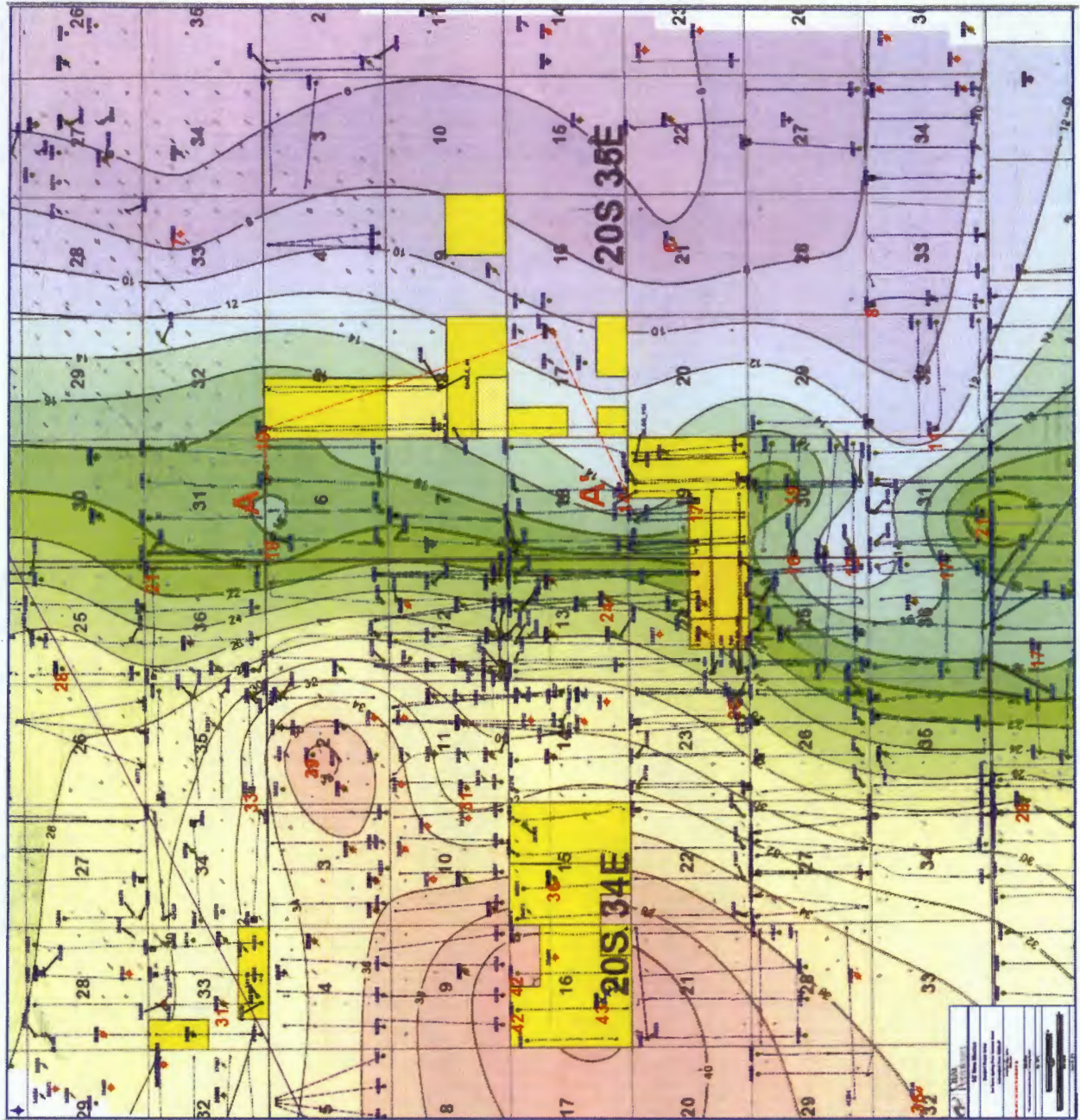


15962  
EXHIBIT 7

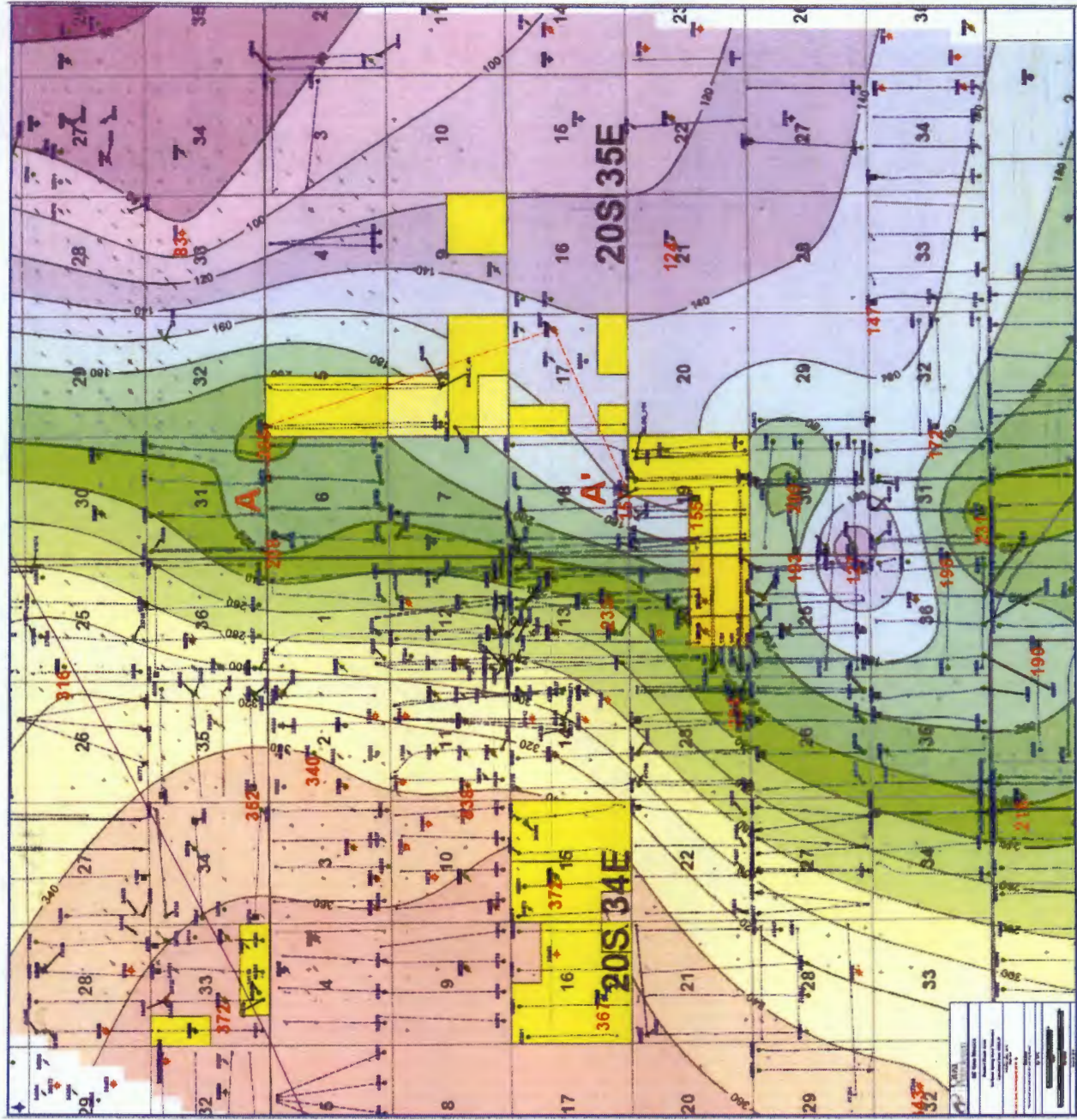
|                                                                                                                                                                            |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                                                                         | <b>Caza Petroleum</b> |
| <b>SE New Mexico</b>                                                                                                                                                       |                       |
| <b>Desert Rose Area</b>                                                                                                                                                    |                       |
| <b>Top of the 3rd Bone Spring Sand</b>                                                                                                                                     |                       |
| <b>Structure in TVDSS</b>                                                                                                                                                  |                       |
| POSTED WELL DATA<br>Well Label                                                                                                                                             |                       |
|  FMTOPS - 3RD_BONE_SPRING[RFC] (SS) (F)                                                 |                       |
| By: RFC                                                                                                                                                                    |                       |
| <br> |                       |
| March 28, 2018                                                                                                                                                             |                       |



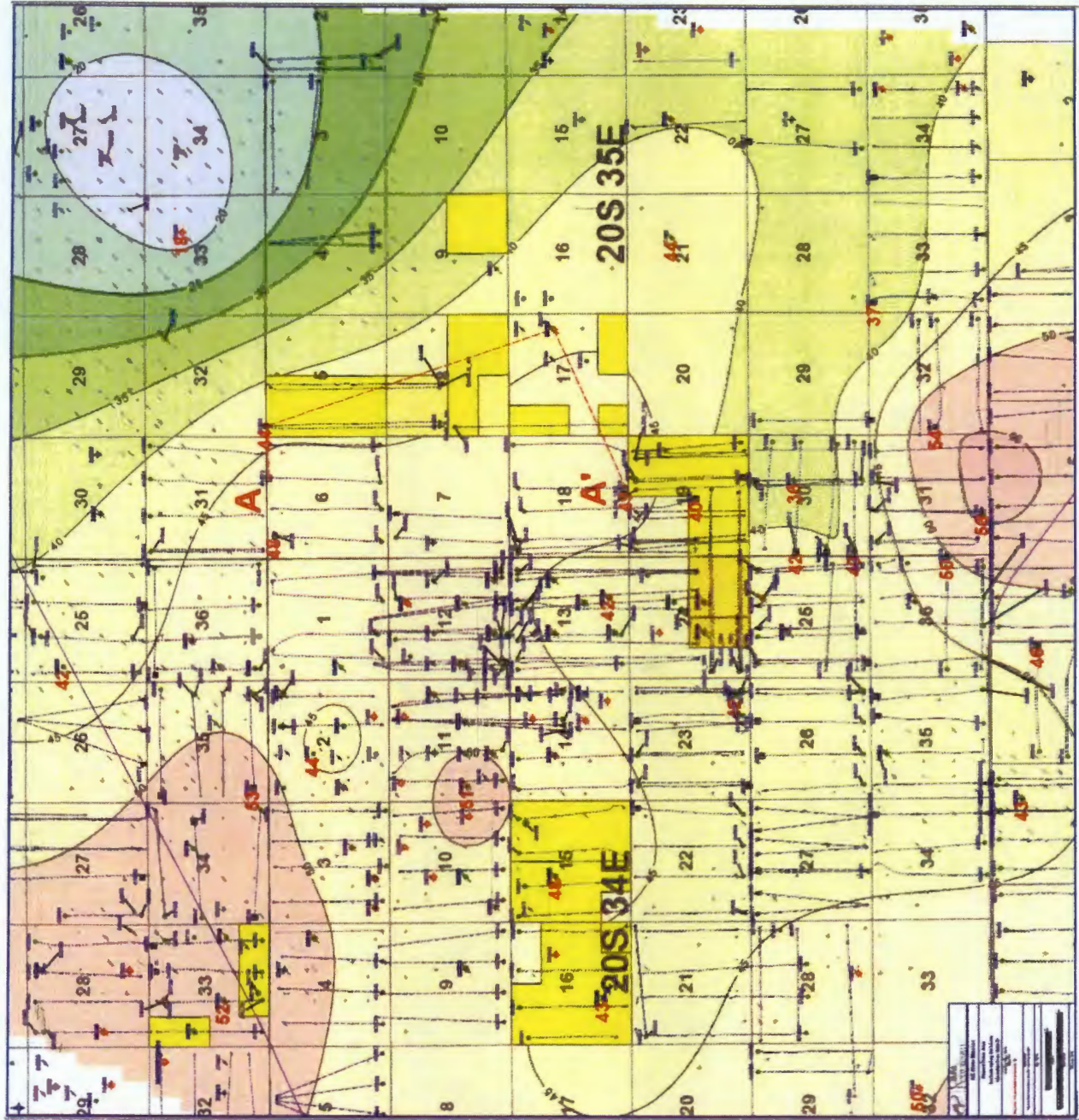
|                                                                                                                                                                            |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                                                                         | <b>Caza Petroleum</b> |
| <b>SE New Mexico</b>                                                                                                                                                       |                       |
| <b>Desert Rose Area</b>                                                                                                                                                    |                       |
| <b>3rd Bone Spring Pore Volume Sand</b>                                                                                                                                    |                       |
| <b>Calculated from GAMLS*</b>                                                                                                                                              |                       |
| POSTED WELL DATA<br>Well Label<br><b>LATED_DATA - 3RD_BSPG_PV_SAND(REF)</b>                                                                                                |                       |
| REMARKS<br>*Geologic Analysis via Maximum Likelihood Analysis                                                                                                              |                       |
| By: RFC                                                                                                                                                                    |                       |
| <br> |                       |
| March 29, 2018                                                                                                                                                             |                       |



|                                                                                                                                                                            |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                         |  |
| <b>SE New Mexico</b>                                                                                                                                                       |  |
| <b>Desert Rose Area</b>                                                                                                                                                    |  |
| <b>3rd Bone Spring Sand Thickness</b><br>Calculated from GAMLS*                                                                                                            |  |
| POSTED WELL DATA<br>Well Label                                                                                                                                             |  |
| 3RD_BSPG_SAND_THICKNESS(RFC) (FEET) ●                                                                                                                                      |  |
| REMARKS<br>*Geologic Analysis via Maximum Likelihood Analysis                                                                                                              |  |
| By: RFC                                                                                                                                                                    |  |
| <br> |  |
| March 20, 2018                                                                                                                                                             |  |

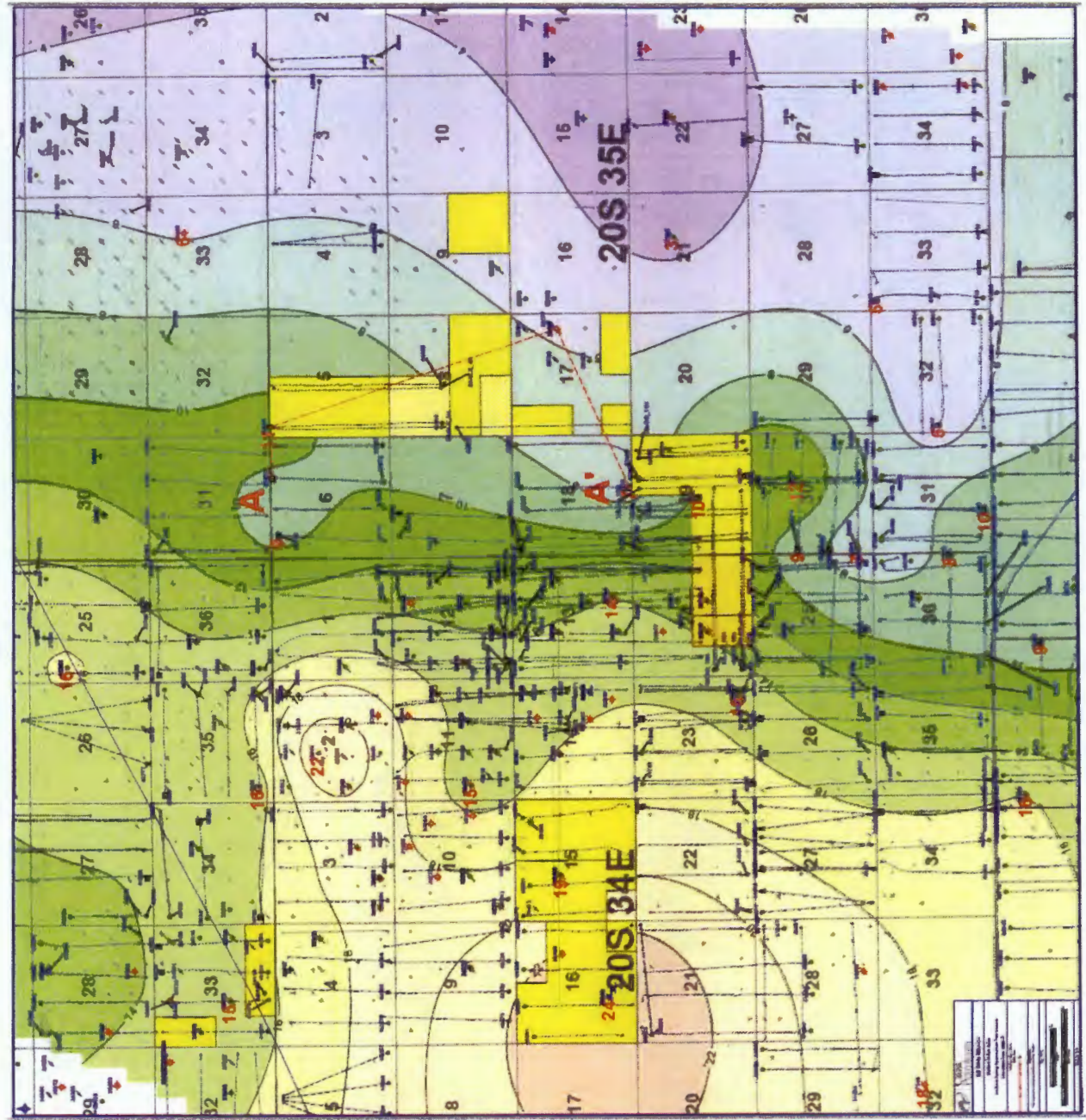


|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
|  |  |
| SE New Mexico                                                                       |  |
| Desert Rose Area                                                                    |  |
| 3rd Bone Spring SW Archile                                                          |  |
| Calculated from GAMLS*                                                              |  |
| POSTED WELL DATA                                                                    |  |
| Well Label                                                                          |  |
| - 3RD_BSPG_SW_ARCHIERFC] (PERCENT) ●                                                |  |
| REMARKS                                                                             |  |
| *Geologic Analysis via Maximum Likelihood Analysis                                  |  |
| By: RFC                                                                             |  |
|  |  |
| March 20, 2018                                                                      |  |



15962  
5

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
|  |  |
| SE New Mexico                                                                       |  |
| Desert Rose Area                                                                    |  |
| 3rd Bone Spring Hydrocarbon Pore Volume                                             |  |
| Calculated from GAMLS*                                                              |  |
| POSTED WELL DATA<br>Well Label<br>TED_DATA - 3RD_BSPG_HPV_ARCHIE[RFC] ●             |  |
| REMARKS                                                                             |  |
| *Geologic Analysis via Maximum Likelihood Analysis                                  |  |
| By: RFC                                                                             |  |
|  |  |
| March 29, 2018                                                                      |  |





Caza Petroleum

SE New Mexico

Desert Rose Area

GAMLS Stratigraphic Cross-Section B - B'

Hung on the 3rd Bone Spring Sand Top

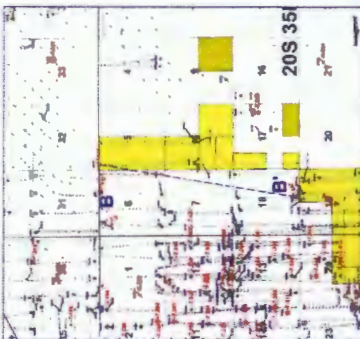
Horizontal Scale = 132.2

Vertical Scale = 100.0

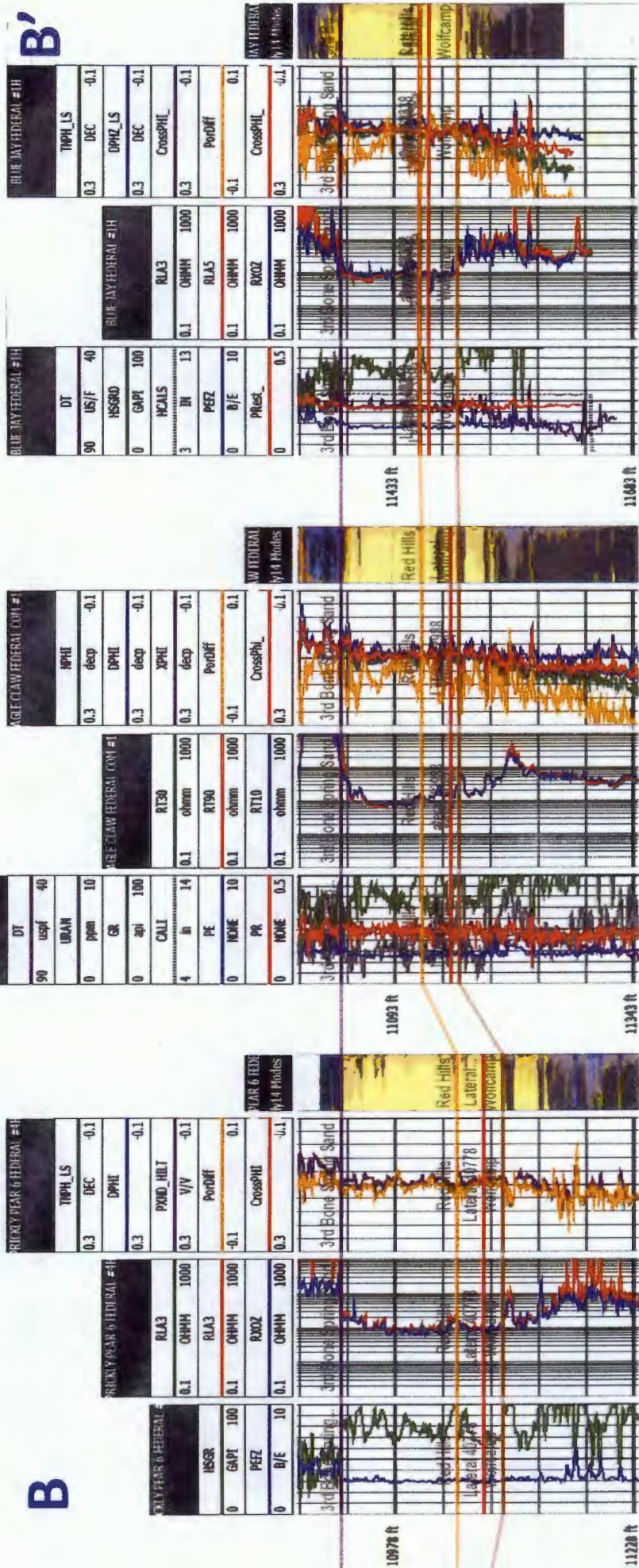
Vertical Exaggeration = 1.3x

By RFC

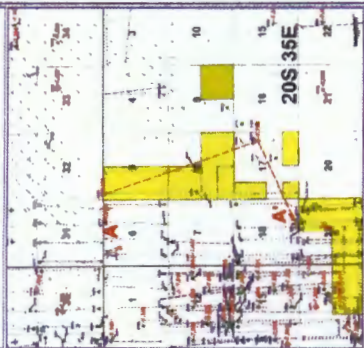
April 2, 2018 11:06 AM



\*Geologic Analysis via Maximum Likelihood Analysis



|                                                                                     |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | <b>Caza Petroleum</b> |
| SE New Mexico                                                                       |                       |
| Desert Rose Area                                                                    |                       |
| Structural Cross-Section A - A'                                                     |                       |
| Horizontal Scale = 574.8                                                            |                       |
| Vertical Scale = 100.57x                                                            |                       |
| Vertical Exaggeration = 5.7x                                                        |                       |
| By RFC                                                                              |                       |
| April 2, 2018 11:21 AM                                                              |                       |

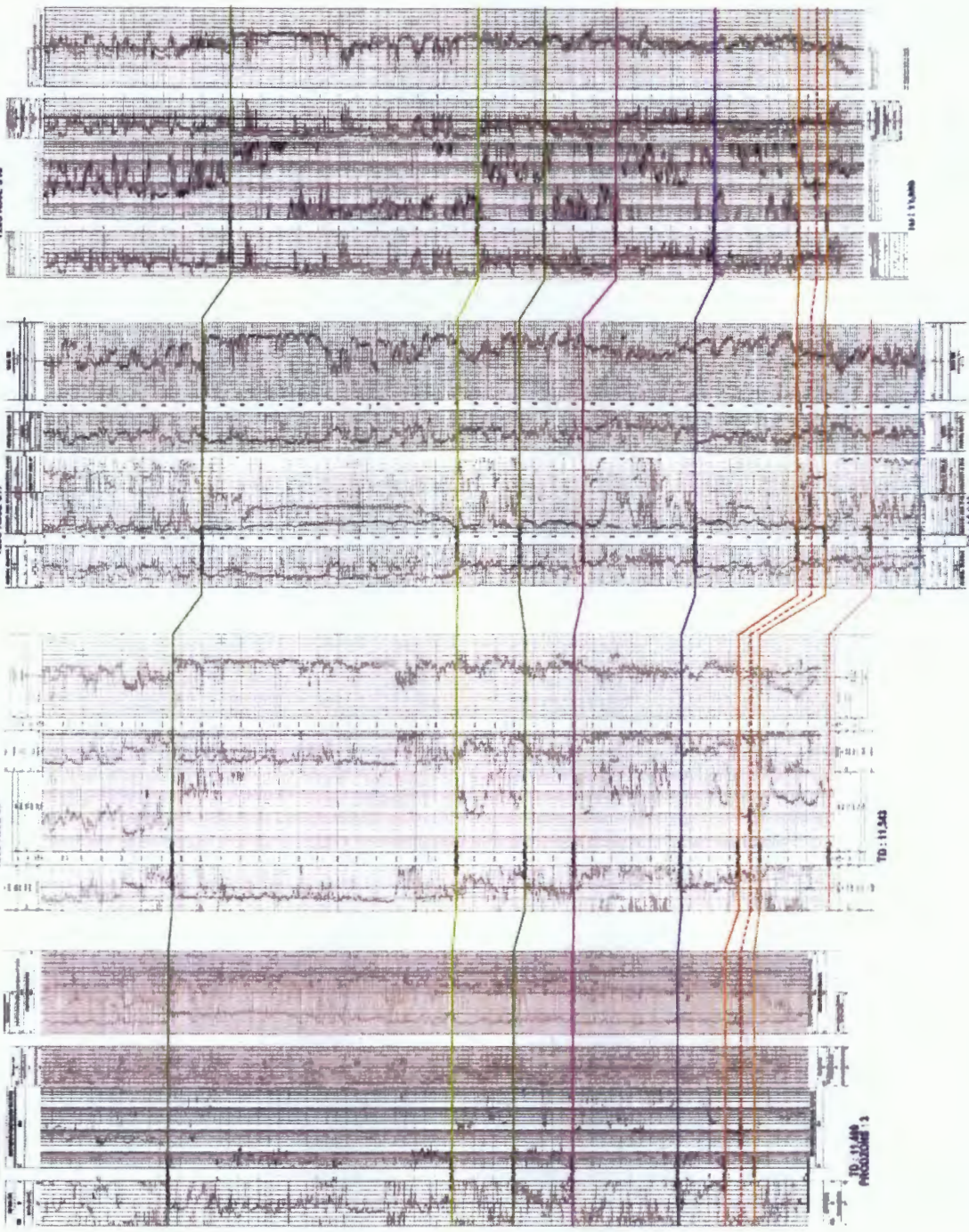


**A'**  
 2025-03-06-0000  
 COG OPERATING LLC  
 BLUE JAY FEDERAL  
 1726 ROSE 918

**A**  
 2025-03-06-0000  
 MANZANO OIL CORPORATION  
 N.E. LYNN UNIT  
 1726 ROSE 817

**A**  
 2025-03-06-0000  
 CAGA OPERATING LLC  
 DALLAS FEDERAL  
 1726 ROSE 85

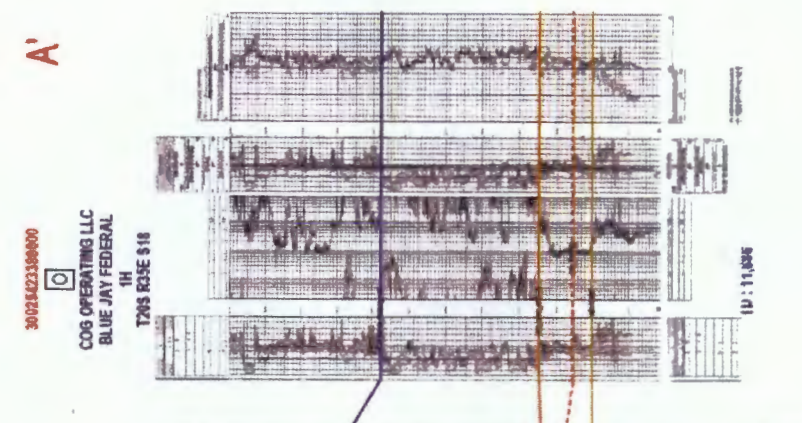
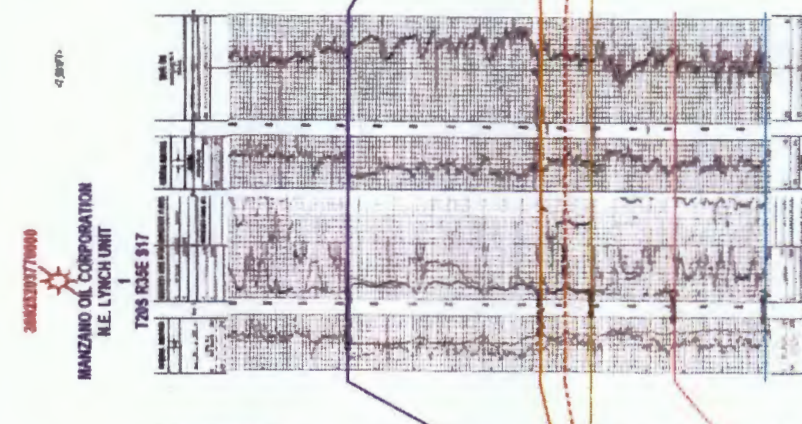
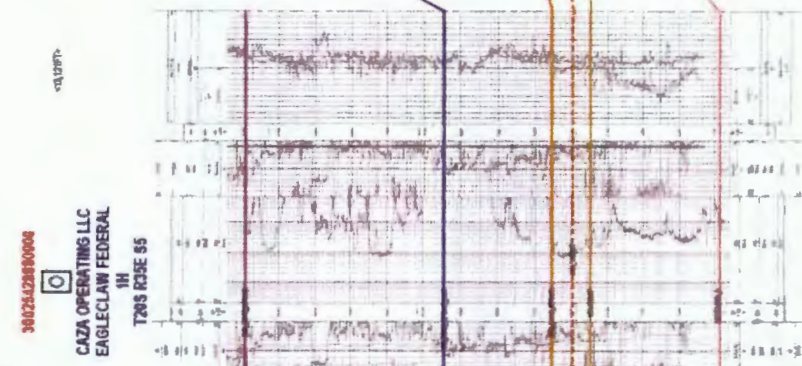
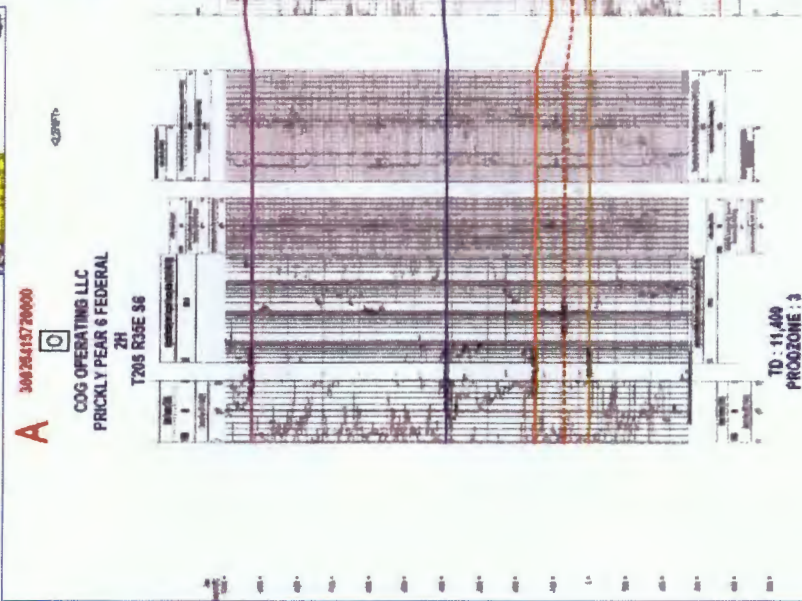
**A**  
 2025-03-06-0000  
 COG OPERATING LLC  
 PHOENIX FEDERAL  
 1726 ROSE 96



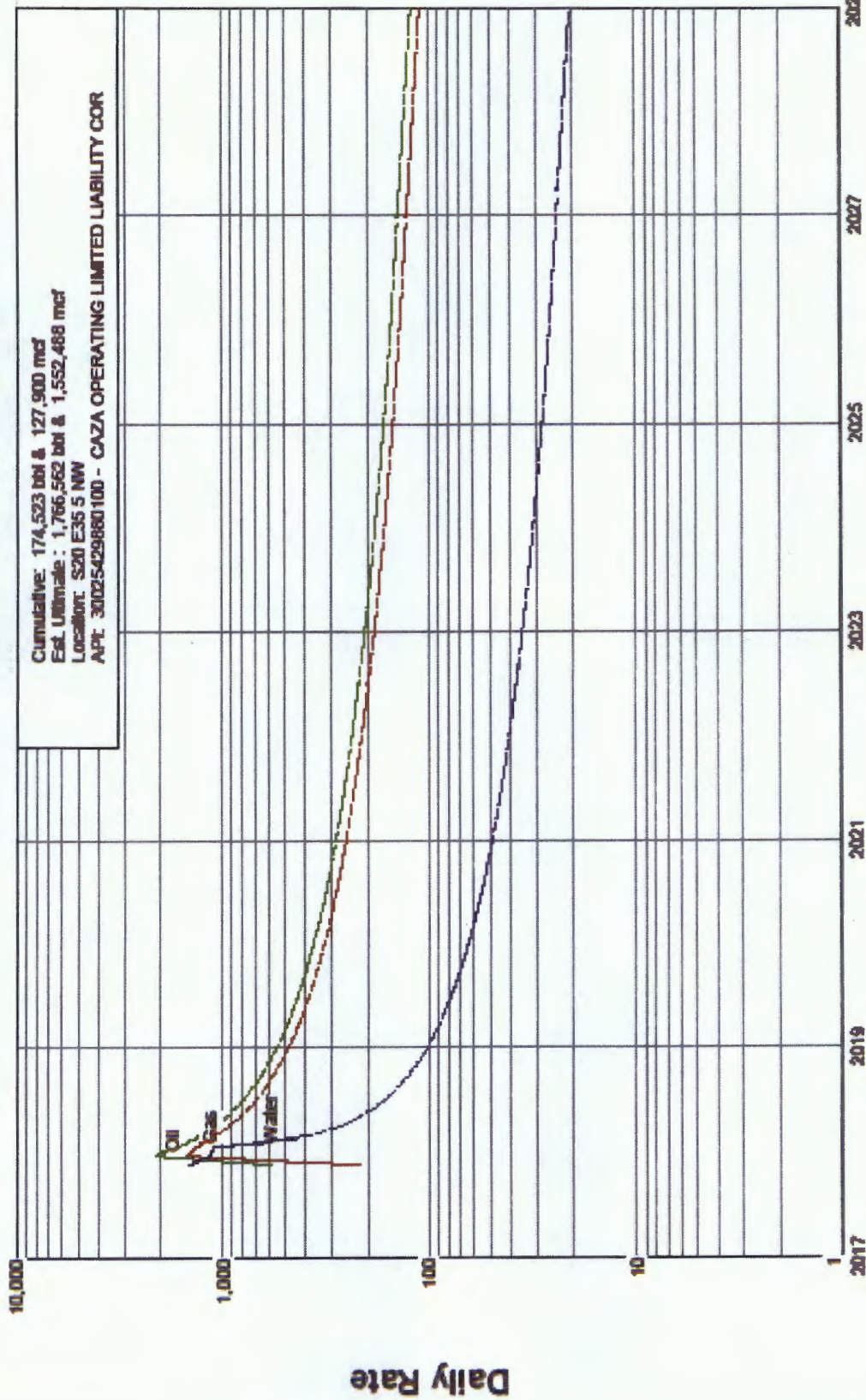
TO: 11.448  
 CURVES: 17.750  
 CURVES: 107.20  
 CURVES: 92.12

15962  
 8

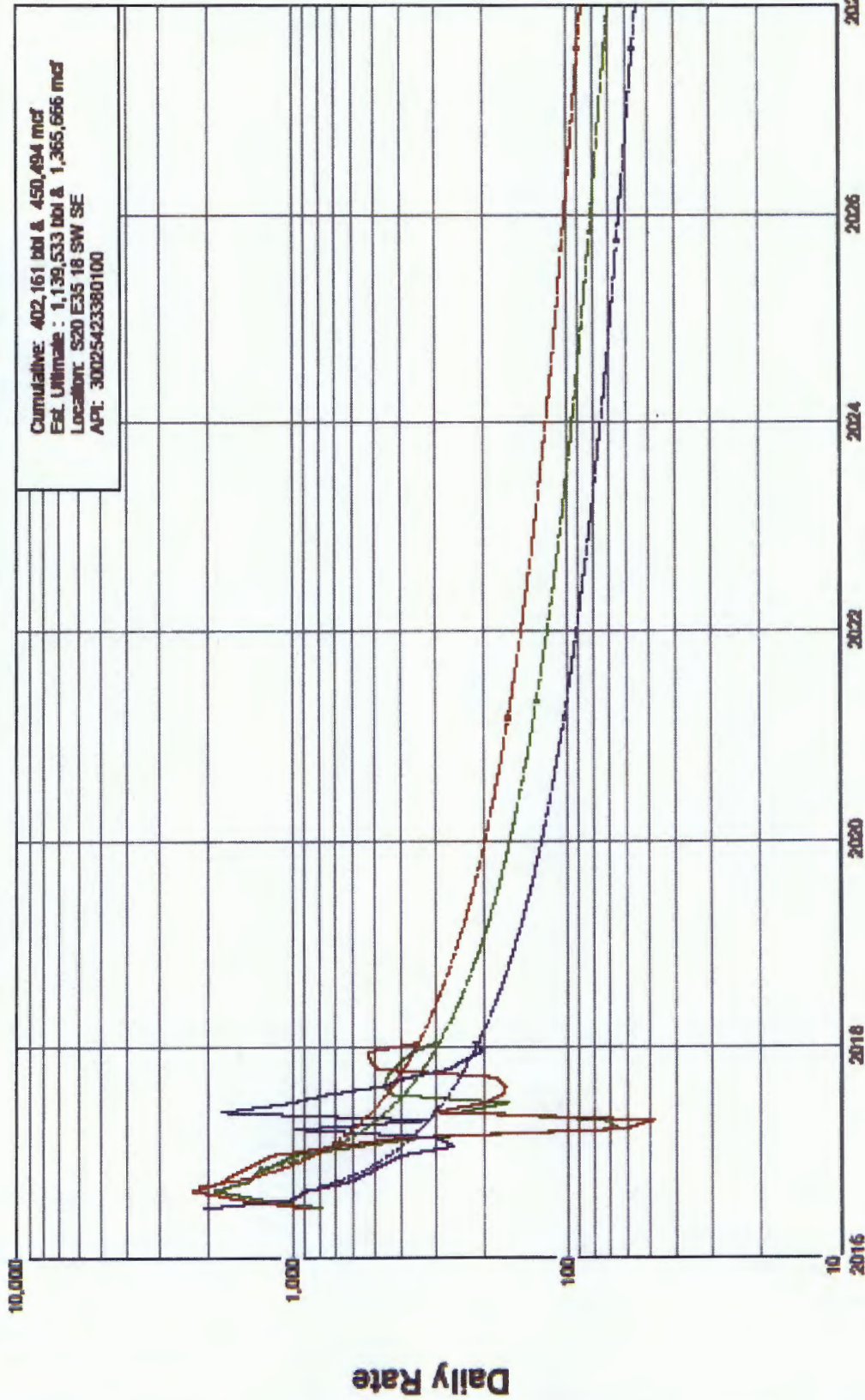
|                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------|--|
|  <b>Caza Petroleum</b> |  |
| SE New Mexico                                                                                             |  |
| Desert Rose Area                                                                                          |  |
| Stratigraphic Cross-Section A - A'                                                                        |  |
| Hang on the Top of Wellcamp                                                                               |  |
| Horizontal Scale = 475.0                                                                                  |  |
| Vertical Scale = 100.0                                                                                    |  |
| Vertical Exaggeration = 4.8x                                                                              |  |
| By RFC                                                                                                    |  |
| March 29, 2016 3:12 PM                                                                                    |  |



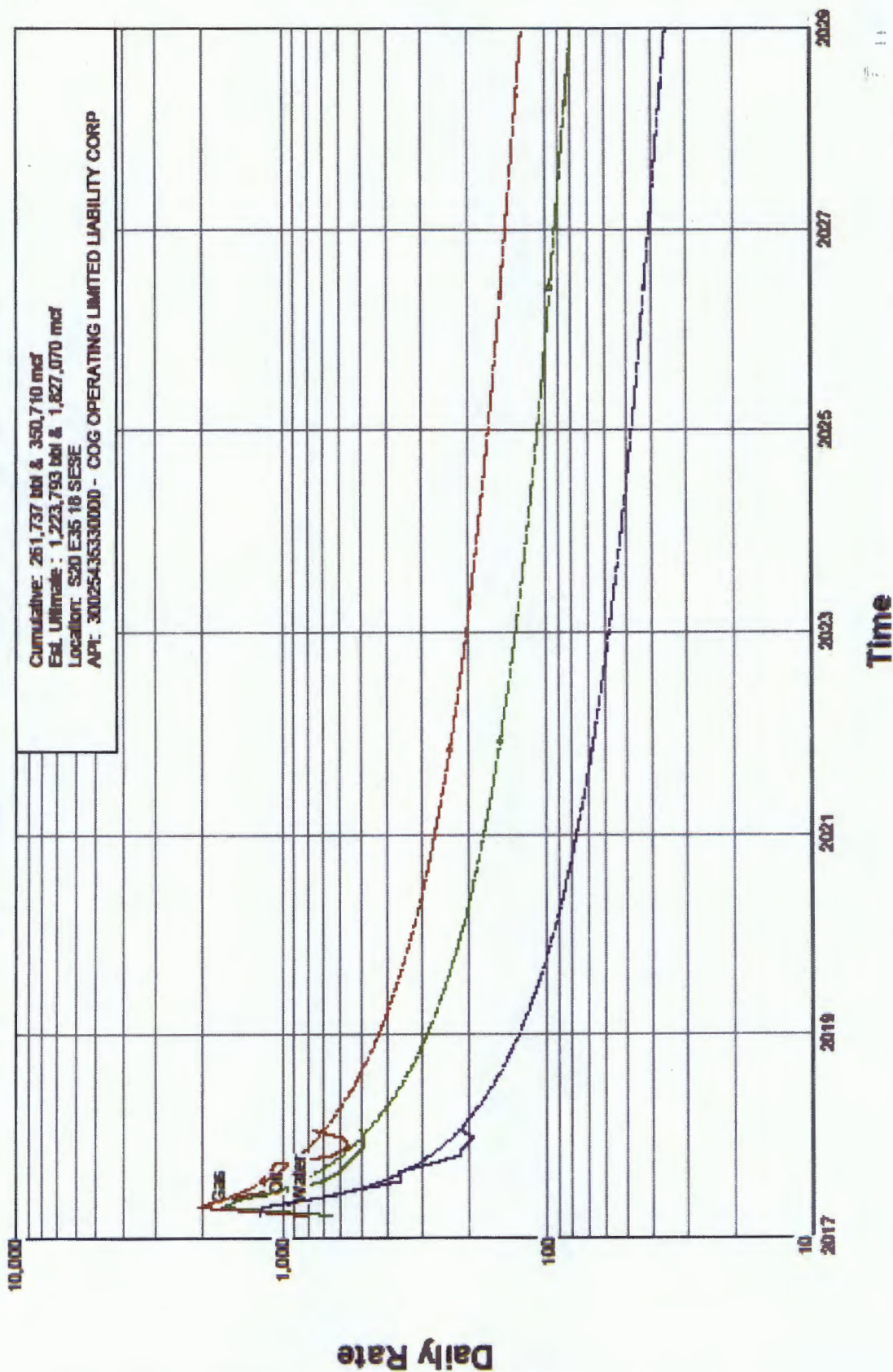
# EAGLE CLAW FEDERAL COM # 1H - WC-025 G-08 S203506D

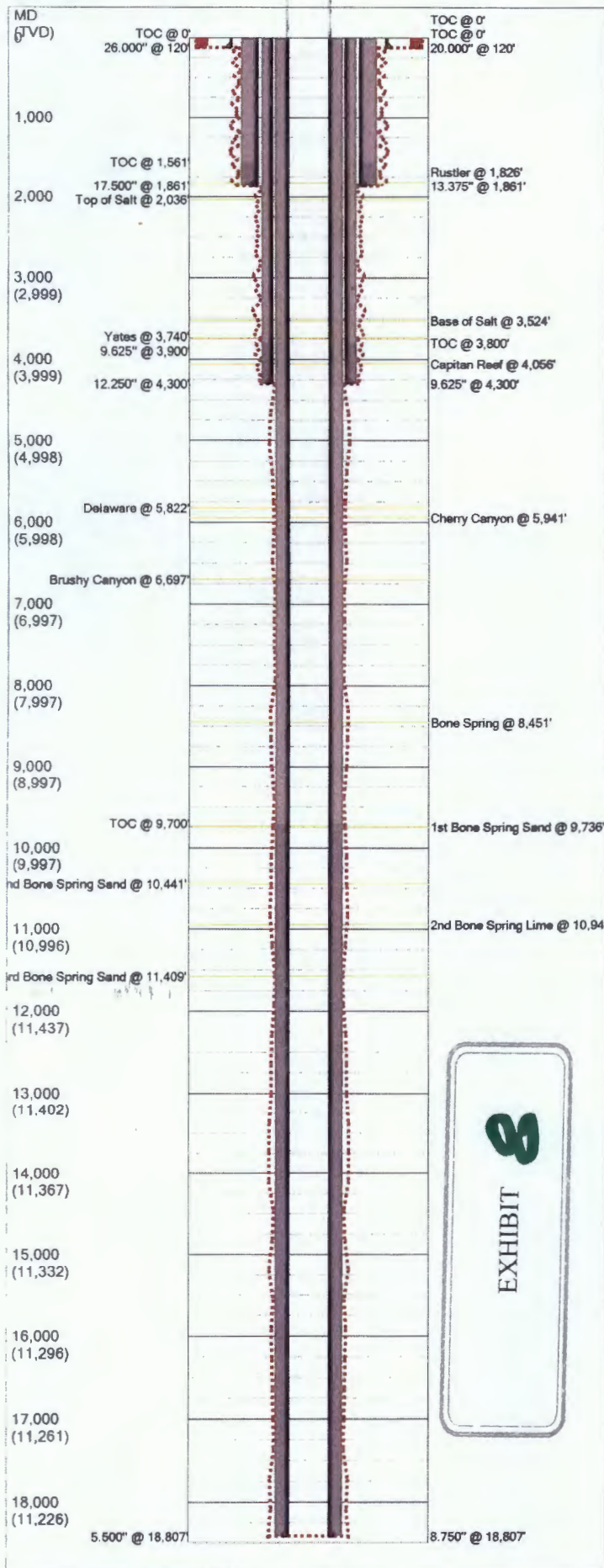


**BLUE JAY FEDERAL # 1H - WC-025 G-08 S203506D**



# **BLUE JAY FEDERAL COM # 2H - WC-025 G-08 S203506D**





Last Updated: 4/2/2018 01:01 PM



| Field Name | Lease Name          | Well No.           |
|------------|---------------------|--------------------|
| WC-025     | Desert Rose-Federal | 1H                 |
| County     | State               | API No.            |
| Lea        | New Mexico          | 30-025-42972-00-X1 |

| Version | Version Tag |
|---------|-------------|
| 1       | Planned     |

| GL (ft) | KB (ft) | Section | Township/Block | Range/Survey |
|---------|---------|---------|----------------|--------------|
| 3,692.0 | 3,714.0 | 17      | 20S            | 35E          |

| Operator       | Well Status | Latitude  | Longitude   |
|----------------|-------------|-----------|-------------|
| Caza Operating | Planning    | 32.566442 | -103.486514 |

| Dist. N/S (ft) | N/S Line | Dist. E/W (ft) | E/W Line | Footage From |
|----------------|----------|----------------|----------|--------------|
| 190            | FSL      | 467            | FWL      | SECTION      |

| Prop Num | Spud Date | Comp. Date |
|----------|-----------|------------|
| 315692   |           |            |

#### Additional Information

| OGRID  | Pool Name and Code                 | Well Type       | Dedicated Acres |
|--------|------------------------------------|-----------------|-----------------|
| 249099 | WC-025 G-08; S203517M; Bone Spring | Horizontal, Oil | 240             |

| Prepared By | Updated By   | Last Updated     |
|-------------|--------------|------------------|
| Steve       | Steve Morris | 4/2/2018 1:01 PM |

#### Hole Summary

| Date | Diam. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|------|------------|-------------|----------------|----------|
|      | 26.000     | 0           | 120            |          |
|      | 17.500     | 120         | 1,861          |          |
|      | 12.250     | 1,861       | 4,300          |          |
|      | 8.750      | 4,300       | 18,807         |          |

#### Tubular Summary

| Date | Description         | O.D. (in) | Wt (lb/ft) | Grade | Top (MD ft) | Bottom (MD ft) |
|------|---------------------|-----------|------------|-------|-------------|----------------|
|      | Conductor Casing    | 20.000    | 94.00      | H40   | 0           | 120            |
|      | Surface Casing      | 13.375    | 54.50      | J55   | 0           | 1,861          |
|      | Intermediate Casing | 9.625     | 40.00      | J55   | 0           | 3,900          |
|      | Intermediate Casing | 9.625     | 40.00      | L80   | 3,900       | 4,300          |
|      | Production Casing   | 5.500     | 20.00      | P110  | 0           | 18,807         |

#### Casing Cement Summary

| C | Date | No. Sx | Csg. O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|---|------|--------|----------------|-------------|----------------|----------|
|   |      | 800    | 13.375         | 0           | 1,561          |          |
|   |      | 440    | 13.375         | 1,561       | 1,861          |          |
|   |      | 1,000  | 9.625          | 0           | 3,800          |          |
|   |      | 600    | 9.625          | 3,800       | 4,300          |          |
|   |      | 1,200  | 5.500          | 0           | 9,700          |          |
|   |      | 1,325  | 5.500          | 9,700       | 18,807         |          |

#### Formation Tops Summary

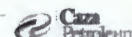
| Formation     | Top (TVD ft) | Comments |
|---------------|--------------|----------|
| Rustler       | 1,826        |          |
| Top of Salt   | 2,036        |          |
| Base of Salt  | 3,524        |          |
| Yates         | 3,740        |          |
| Capitan Reef  | 4,056        |          |
| Delaware      | 5,822        |          |
| Cherry Canyon | 5,941        |          |
| Brushy Canyon | 6,697        |          |

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| Formation            | Top<br>(TVD ft) | Comments |
|----------------------|-----------------|----------|
| Bone Spring          | 8,451           |          |
| 1st Bone Spring Sand | 9,736           |          |
| 2nd Bone Spring Sand | 10,441          |          |
| 2nd Bone Spring Lime | 10,942          |          |
| 3rd Bone Spring Sand | 11,409          |          |

Last Updated: 4/2/2018 01:01 PM



|                        |                                   |                 |                 |            |                |
|------------------------|-----------------------------------|-----------------|-----------------|------------|----------------|
| Well Name              | Lease Name                        | Well No.        | County          | State      | API No.        |
| WC-025                 | Desert Rose Federal               | 1H              | Lea             | New Mexico | 30025429720000 |
| Version                | Version Tag                       | Spud Date       | Comp. Date      | GL (ft)    | KB (ft)        |
| 1                      | Planned                           |                 |                 | 3,692.0    | 3,714.0        |
| Section                | Township/Block                    | Range/Survey    | Dist. N/S (ft)  | N/S Line   | Dist. E/W (ft) |
| 7                      | 20S                               | 35E             | 190             | FSL        | 467            |
| Operator               | Well Status                       | Latitude        | Longitude       | Prop Num   |                |
| Caza Operating         | Planning                          | 32.566442       | -103.486514     | 315692     |                |
| GRID                   | Pool Name and Code                | Well Type       | Dedicated Acres |            |                |
| 9099                   | WC-025 G-08 S203517M; Bone Spring | Horizontal, Oil | 240             |            |                |
| Last Updated           | Prepared By                       | Updated By      |                 |            |                |
| 4/02/2018 1:01 PM      | Steve                             | Steve Morris    |                 |            |                |
| Additional Information |                                   |                 |                 |            |                |

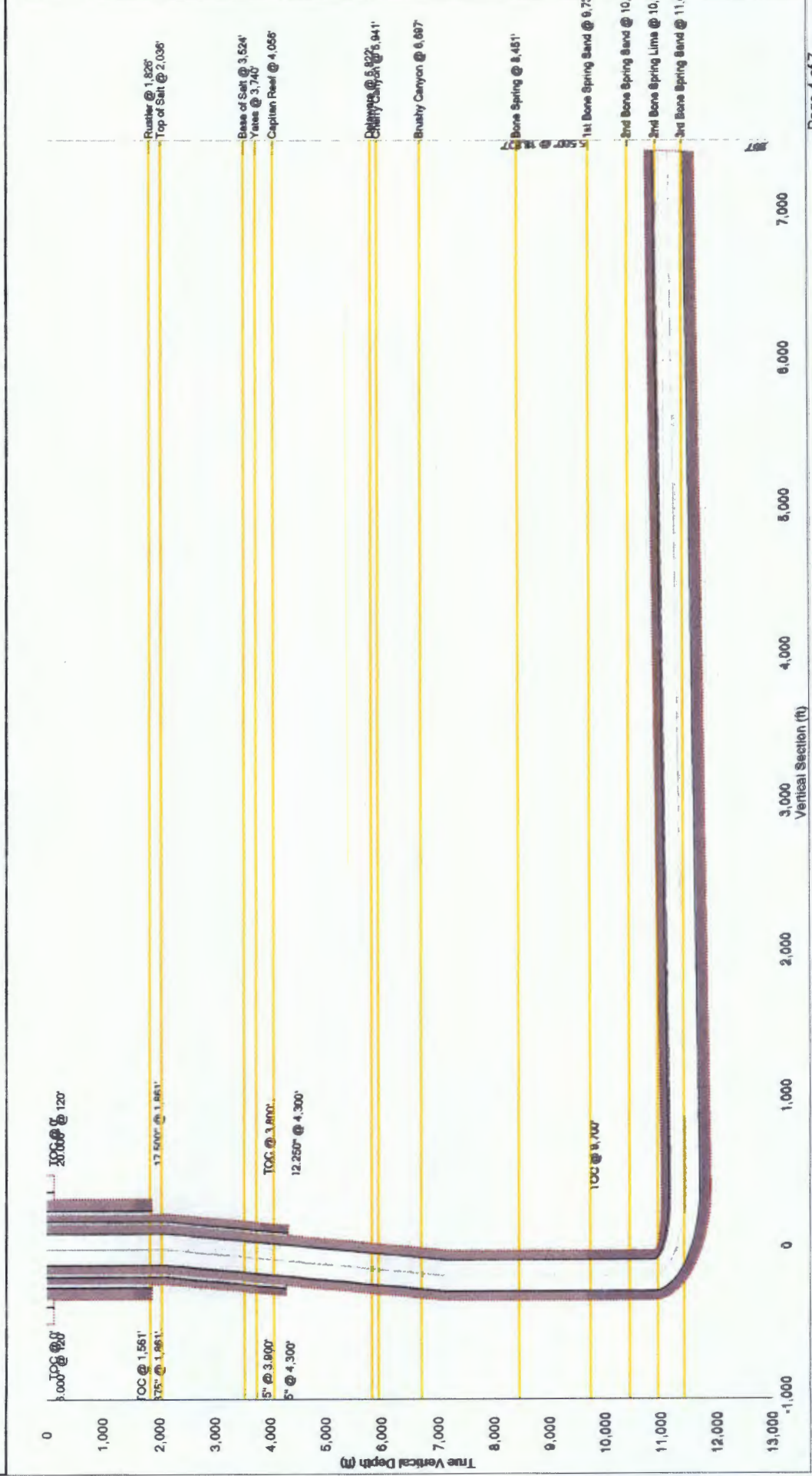
| Date | Diameter (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|------|---------------|-------------|----------------|----------|
|      | 26.000        | 0           | 120            |          |
|      | 17.500        | 120         | 1,861          |          |
|      | 12.250        | 1,861       | 4,300          |          |
|      | 8.750         | 4,300       | 18,807         |          |

| Date | Description         | No. Jts | O.D. (in) | Wt (lb/ft) | Grade | Coupling | Top (MD ft) | Bottom (MD ft) | Comments |
|------|---------------------|---------|-----------|------------|-------|----------|-------------|----------------|----------|
|      | Conductor Casing    | 3       | 20.000    | 94.00      | H40   | SLH      | 0           | 120            |          |
|      | Surface Casing      | 46      | 13.375    | 54.50      | J55   | STC      | 0           | 1,861          |          |
|      | Intermediate Casing | 95      | 9.625     | 40.00      | J55   | LTC      | 0           | 3,900          |          |
|      | Intermediate Casing | 10      | 9.625     | 40.00      | L80   | LTC      | 3,900       | 4,300          |          |
|      | Production Casing   | 449     | 5.500     | 20.00      | P110  | GBCD     | 0           | 18,807         |          |

| Date | No. Sx | Yield (ft3/sk) | Vol. (ft3) | Csg. O.D. (in) | Top (MD ft) | Bottom (MD ft) | Description                | Comments |
|------|--------|----------------|------------|----------------|-------------|----------------|----------------------------|----------|
|      | 800    | 1.66           | 1,328      | 13.375         | 0           | 1,561          | 13.7ppg Class C ExtendaCem |          |
|      | 440    | 1.35           | 594        | 13.375         | 1,561       | 1,861          | 14.8ppg Class C HalCem     |          |
|      | 1,000  | 1.87           | 1,440      | 9.625          | 0           | 3,800          | 12.9ppg Class C EconoCem   |          |
|      | 600    | 1.35           | 810        | 9.625          | 3,800       | 4,300          | 14.8ppg Class C HalCem     |          |
|      | 1,200  | 2.79           | 3,348      | 5.500          | 0           | 9,700          | 11.5ppg Class H EconoCem H |          |
|      | 1,325  | 2.16           | 2,862      | 5.500          | 9,700       | 18,807         | 14.5ppg Class H NeoCem AS  |          |

| Formation Name       | Top(TVD ft) | Comments |
|----------------------|-------------|----------|
| Crustle              | 1,826       |          |
| Top of Salt          | 2,036       |          |
| Base of Salt         | 3,524       |          |
| Mates                | 3,740       |          |
| Capitan Reef         | 4,056       |          |
| Delaware             | 5,822       |          |
| Berry Canyon         | 5,941       |          |
| Brushy Canyon        | 6,697       |          |
| Bone Spring          | 8,451       |          |
| 1st Bone Spring Sand | 9,736       |          |
| 2nd Bone Spring Sand | 10,441      |          |
| 2nd Bone Spring Lime | 10,942      |          |
| 3rd Bone Spring Sand | 11,409      |          |

| Field Name             | Lease Name          | Well No.       | County              | State       | API No.        |          |              |           |             |
|------------------------|---------------------|----------------|---------------------|-------------|----------------|----------|--------------|-----------|-------------|
| WC-025                 | Desert Rose Federal | 1H             | Lea                 | New Mexico  | 30025429720000 |          |              |           |             |
| Version                | Version Tag         | Spud Date      | Comp. Date          | G.L. (ft)   | K.B. (ft)      |          |              |           |             |
| 1                      | Planned             |                |                     | 3,692.0     | 3,714.0        |          |              |           |             |
| Sec.                   | Township/Block      | Range/Survey   | Dist. N/S (ft)      | N/S Line    | Dist. E/W (ft) | E/W Line | Footage From | Latitude  | Longitude   |
| 17                     | 20S                 | 35E            | 190                 | FSL         | 467            | FWL      |              | 32.566442 | -103.486514 |
| Well Status            | PropNum             | Operator       | Last Updated        | Prepared By | Updated By     |          |              |           |             |
| Planning               | 315692              | Caza Operating | 4/2/2018 1:01:29 PM | Steve       | Steve Morris   |          |              |           |             |
| Additional Information |                     |                |                     |             |                |          |              |           |             |



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st Updated: 4/2/2018 1:01:29 PM



|                        |                    |                     |             |                |             |             |  |
|------------------------|--------------------|---------------------|-------------|----------------|-------------|-------------|--|
| Field Name             |                    | Lease Name          | Well No.    | API No.        | Version     | Version Tag |  |
| WC-023                 |                    | Desert Rose Federal | 1H          | 30025429720000 | 1           | Planned     |  |
| Section                | Township/Block     | Range/Survey        | County      | State          | GL (ft)     | KB (ft)     |  |
|                        | 20S                | 35E                 | Lea         | New Mexico     | 3,692.0     | 3,714.0     |  |
| Target N (-S) (ft)     | Target E (-W) (ft) | Latitude            | Longitude   | Operator       | Well Status |             |  |
|                        | 0                  | 32.566442           | -103.486514 | Caza Operating | Planning    |             |  |
| Additional Information |                    |                     |             |                |             |             |  |
|                        |                    |                     |             |                |             |             |  |

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | TVD (ft) | Vertical Section (ft) | Coordinate N (-S) (ft) | Coordinate E (-W) (ft) | DLS (deg/100 ft) |
|---------------------|-------------------|---------------|----------|-----------------------|------------------------|------------------------|------------------|
| 0.0                 | 0.0               | 0.0           | 0.0      | 0.0                   | 0.0                    | 0.0                    | 0.00             |
| 2,000.0             | 0.0               | 0.0           | 2,000.0  | 0.0                   | 0.0                    | 0.0                    | 0.00             |
| 2,100.0             | 2.0               | 179.0         | 2,100.0  | -1.8                  | -1.7                   | 0.0                    | 2.00             |
| 2,200.0             | 2.0               | 179.0         | 2,199.9  | -5.2                  | -5.2                   | 0.1                    | 0.00             |
| 2,300.0             | 2.0               | 179.0         | 2,299.9  | -8.7                  | -8.7                   | 0.2                    | 0.00             |
| 2,400.0             | 2.0               | 179.0         | 2,399.8  | -12.2                 | -12.2                  | 0.2                    | 0.00             |
| 2,500.0             | 2.0               | 179.0         | 2,499.7  | -15.7                 | -15.7                  | 0.3                    | 0.00             |
| 2,600.0             | 2.0               | 179.0         | 2,599.7  | -19.2                 | -19.2                  | 0.3                    | 0.00             |
| 2,700.0             | 2.0               | 179.0         | 2,699.6  | -22.7                 | -22.7                  | 0.4                    | 0.00             |
| 2,800.0             | 2.0               | 179.0         | 2,799.6  | -26.2                 | -26.2                  | 0.5                    | 0.00             |
| 2,900.0             | 2.0               | 179.0         | 2,899.5  | -29.7                 | -29.7                  | 0.5                    | 0.00             |
| 3,000.0             | 2.0               | 179.0         | 2,999.4  | -33.2                 | -33.2                  | 0.6                    | 0.00             |
| 3,100.0             | 2.0               | 179.0         | 3,099.4  | -36.6                 | -36.6                  | 0.6                    | 0.00             |
| 3,200.0             | 2.0               | 179.0         | 3,199.3  | -40.1                 | -40.1                  | 0.7                    | 0.00             |
| 3,300.0             | 2.0               | 179.0         | 3,299.3  | -43.6                 | -43.6                  | 0.8                    | 0.00             |
| 3,400.0             | 2.0               | 179.0         | 3,399.2  | -47.1                 | -47.1                  | 0.8                    | 0.00             |
| 3,500.0             | 2.0               | 179.0         | 3,499.1  | -50.6                 | -50.6                  | 0.9                    | 0.00             |
| 3,600.0             | 2.0               | 179.0         | 3,599.1  | -54.1                 | -54.1                  | 0.9                    | 0.00             |
| 3,700.0             | 2.0               | 179.0         | 3,699.0  | -57.6                 | -57.6                  | 1.0                    | 0.00             |
| 3,800.0             | 2.0               | 179.0         | 3,798.9  | -61.1                 | -61.1                  | 1.1                    | 0.00             |
| 3,900.0             | 2.0               | 179.0         | 3,898.9  | -64.6                 | -64.6                  | 1.1                    | 0.00             |
| 4,000.0             | 2.0               | 179.0         | 3,998.8  | -68.1                 | -68.0                  | 1.2                    | 0.00             |
| 4,100.0             | 2.0               | 179.0         | 4,098.8  | -71.5                 | -71.5                  | 1.3                    | 0.00             |
| 4,200.0             | 2.0               | 179.0         | 4,198.7  | -75.0                 | -75.0                  | 1.3                    | 0.00             |
| 4,300.0             | 2.0               | 179.0         | 4,298.6  | -78.5                 | -78.5                  | 1.4                    | 0.00             |
| 4,400.0             | 2.0               | 179.0         | 4,398.6  | -82.0                 | -82.0                  | 1.4                    | 0.00             |
| 4,500.0             | 2.0               | 179.0         | 4,498.5  | -85.5                 | -85.5                  | 1.5                    | 0.00             |
| 4,600.0             | 2.0               | 179.0         | 4,598.5  | -89.0                 | -89.0                  | 1.6                    | 0.00             |
| 4,700.0             | 2.0               | 179.0         | 4,698.4  | -92.5                 | -92.5                  | 1.6                    | 0.00             |
| 4,800.0             | 2.0               | 179.0         | 4,798.3  | -96.0                 | -96.0                  | 1.7                    | 0.00             |
| 4,900.0             | 2.0               | 179.0         | 4,898.3  | -99.5                 | -99.5                  | 1.7                    | 0.00             |
| 5,000.0             | 2.0               | 179.0         | 4,998.2  | -103.0                | -102.9                 | 1.8                    | 0.00             |
| 5,100.0             | 2.0               | 179.0         | 5,098.2  | -106.4                | -106.4                 | 1.9                    | 0.00             |
| 5,200.0             | 2.0               | 179.0         | 5,198.1  | -109.9                | -109.9                 | 1.9                    | 0.00             |
| 5,300.0             | 2.0               | 179.0         | 5,298.0  | -113.4                | -113.4                 | 2.0                    | 0.00             |
| 5,400.0             | 2.0               | 179.0         | 5,398.0  | -116.9                | -116.9                 | 2.0                    | 0.00             |
| 5,500.0             | 2.0               | 179.0         | 5,497.9  | -120.4                | -120.4                 | 2.1                    | 0.00             |
| 5,600.0             | 2.0               | 179.0         | 5,597.9  | -123.9                | -123.9                 | 2.2                    | 0.00             |
| 5,700.0             | 2.0               | 179.0         | 5,697.8  | -127.4                | -127.4                 | 2.2                    | 0.00             |
| 5,800.0             | 2.0               | 179.0         | 5,797.7  | -130.9                | -130.9                 | 2.3                    | 0.00             |
| 5,900.0             | 2.0               | 179.0         | 5,897.7  | -134.4                | -134.3                 | 2.3                    | 0.00             |
| 6,000.0             | 2.0               | 179.0         | 5,997.6  | -137.9                | -137.8                 | 2.4                    | 0.00             |
| 6,100.0             | 2.0               | 179.0         | 6,097.5  | -141.3                | -141.3                 | 2.5                    | 0.00             |
| 6,200.0             | 2.0               | 179.0         | 6,197.5  | -144.8                | -144.8                 | 2.5                    | 0.00             |
| 6,300.0             | 2.0               | 179.0         | 6,297.4  | -148.3                | -148.3                 | 2.6                    | 0.00             |
| 6,400.0             | 2.0               | 179.0         | 6,397.4  | -151.8                | -151.8                 | 2.7                    | 0.00             |
| 6,500.0             | 2.0               | 179.0         | 6,497.3  | -155.3                | -155.3                 | 2.7                    | 0.00             |
| 6,600.0             | 2.0               | 179.0         | 6,597.2  | -158.8                | -158.8                 | 2.8                    | 0.00             |
| 6,700.0             | 2.0               | 179.0         | 6,697.2  | -162.3                | -162.3                 | 2.8                    | 0.00             |
| 6,800.0             | 2.0               | 179.0         | 6,797.1  | -165.8                | -165.8                 | 2.9                    | 0.00             |
| 6,900.0             | 2.0               | 179.0         | 6,897.1  | -169.3                | -169.2                 | 3.0                    | 0.00             |
| 7,000.0             | 2.0               | 179.0         | 6,997.0  | -172.8                | -172.7                 | 3.0                    | 0.00             |
| 7,100.0             | 2.0               | 179.0         | 7,096.9  | -176.2                | -176.2                 | 3.1                    | 0.00             |
| 7,150.0             | 2.0               | 179.0         | 7,146.9  | -178.0                | -178.0                 | 3.1                    | 0.00             |

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | TVD (ft) | Vertical Section (ft) | Coordinate N (-S)<br>(ft) | Coordinate E (-W)<br>(ft) | DLS (deg/100 ft) |
|---------------------|-------------------|---------------|----------|-----------------------|---------------------------|---------------------------|------------------|
| 7,200.0             | 1.0               | 179.0         | 7,196.9  | -179.3                | -179.3                    | 3.1                       | 2.00             |
| 7,250.0             | 0.0               | 0.0           | 7,246.9  | -179.7                | -179.7                    | 3.1                       | 2.00             |
| 7,300.0             | 0.0               | 0.0           | 7,296.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,400.0             | 0.0               | 0.0           | 7,396.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,500.0             | 0.0               | 0.0           | 7,496.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,600.0             | 0.0               | 0.0           | 7,596.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,700.0             | 0.0               | 0.0           | 7,696.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,800.0             | 0.0               | 0.0           | 7,796.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 7,900.0             | 0.0               | 0.0           | 7,896.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,000.0             | 0.0               | 0.0           | 7,996.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,100.0             | 0.0               | 0.0           | 8,096.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,200.0             | 0.0               | 0.0           | 8,196.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,300.0             | 0.0               | 0.0           | 8,296.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,400.0             | 0.0               | 0.0           | 8,396.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,500.0             | 0.0               | 0.0           | 8,496.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,600.0             | 0.0               | 0.0           | 8,596.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,700.0             | 0.0               | 0.0           | 8,696.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,800.0             | 0.0               | 0.0           | 8,796.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 8,900.0             | 0.0               | 0.0           | 8,896.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,000.0             | 0.0               | 0.0           | 8,996.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,100.0             | 0.0               | 0.0           | 9,096.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,200.0             | 0.0               | 0.0           | 9,196.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,300.0             | 0.0               | 0.0           | 9,296.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,400.0             | 0.0               | 0.0           | 9,396.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,500.0             | 0.0               | 0.0           | 9,496.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,600.0             | 0.0               | 0.0           | 9,596.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,700.0             | 0.0               | 0.0           | 9,696.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,800.0             | 0.0               | 0.0           | 9,796.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 9,900.0             | 0.0               | 0.0           | 9,896.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,000.0            | 0.0               | 0.0           | 9,996.9  | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,100.0            | 0.0               | 0.0           | 10,096.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,200.0            | 0.0               | 0.0           | 10,196.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,300.0            | 0.0               | 0.0           | 10,296.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,400.0            | 0.0               | 0.0           | 10,396.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,500.0            | 0.0               | 0.0           | 10,496.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,600.0            | 0.0               | 0.0           | 10,596.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,700.0            | 0.0               | 0.0           | 10,696.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,800.0            | 0.0               | 0.0           | 10,796.9 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,874.5            | 0.0               | 0.0           | 10,871.4 | -179.7                | -179.7                    | 3.1                       | 0.00             |
| 10,900.0            | 2.6               | 359.5         | 10,896.9 | -179.2                | -179.1                    | 3.1                       | 10.00            |
| 10,950.0            | 7.6               | 359.5         | 10,946.7 | -174.8                | -174.7                    | 3.1                       | 10.00            |
| 11,000.0            | 12.6              | 359.5         | 10,995.9 | -166.0                | -166.0                    | 3.0                       | 10.00            |
| 11,050.0            | 17.6              | 359.5         | 11,044.2 | -153.1                | -153.0                    | 2.9                       | 10.00            |
| 11,100.0            | 22.6              | 359.5         | 11,091.1 | -135.9                | -135.9                    | 2.7                       | 10.00            |
| 11,150.0            | 27.6              | 359.5         | 11,136.4 | -114.8                | -114.7                    | 2.6                       | 10.00            |
| 11,200.0            | 32.6              | 359.5         | 11,179.7 | -89.7                 | -89.7                     | 2.3                       | 10.00            |
| 11,250.0            | 37.6              | 359.5         | 11,220.6 | -61.0                 | -61.0                     | 2.1                       | 10.00            |
| 11,300.0            | 42.6              | 359.5         | 11,258.8 | -28.9                 | -28.8                     | 1.8                       | 10.00            |
| 11,350.0            | 47.6              | 359.5         | 11,294.2 | 6.5                   | 6.5                       | 1.5                       | 10.00            |
| 11,400.0            | 52.6              | 359.5         | 11,326.2 | 44.8                  | 44.9                      | 1.1                       | 10.00            |
| 11,450.0            | 57.6              | 359.5         | 11,354.9 | 85.8                  | 85.8                      | 0.7                       | 10.00            |
| 11,500.0            | 62.6              | 359.5         | 11,379.8 | 129.1                 | 129.1                     | 0.3                       | 10.00            |
| 11,550.0            | 67.6              | 359.5         | 11,400.9 | 174.4                 | 174.5                     | -0.1                      | 10.00            |
| 11,600.0            | 72.6              | 359.5         | 11,418.0 | 221.4                 | 221.4                     | -0.5                      | 10.00            |
| 11,650.0            | 77.6              | 359.5         | 11,430.9 | 269.7                 | 269.7                     | -0.9                      | 10.00            |
| 11,700.0            | 82.6              | 359.5         | 11,439.5 | 319.0                 | 319.0                     | -1.4                      | 10.00            |
| 11,750.0            | 87.6              | 359.5         | 11,443.8 | 368.8                 | 368.8                     | -1.8                      | 10.00            |
| 11,794.6            | 92.0              | 359.5         | 11,444.0 | 413.3                 | 413.3                     | -2.2                      | 10.00            |
| 11,800.0            | 92.0              | 359.5         | 11,443.8 | 418.7                 | 418.7                     | -2.3                      | 0.00             |
| 11,900.0            | 92.0              | 359.5         | 11,440.3 | 518.7                 | 518.7                     | -3.2                      | 0.00             |
| 12,000.0            | 92.0              | 359.5         | 11,436.8 | 618.6                 | 618.6                     | -4.1                      | 0.00             |
| 12,100.0            | 92.0              | 359.5         | 11,433.3 | 718.6                 | 718.5                     | -5.0                      | 0.00             |
| 12,200.0            | 92.0              | 359.5         | 11,429.8 | 818.5                 | 818.5                     | -5.9                      | 0.00             |
| 12,300.0            | 92.0              | 359.5         | 11,426.3 | 918.4                 | 918.4                     | -6.8                      | 0.00             |
| 12,400.0            | 92.0              | 359.5         | 11,422.7 | 1,018.4               | 1,018.3                   | -7.7                      | 0.00             |
| 12,500.0            | 92.0              | 359.5         | 11,419.2 | 1,118.3               | 1,118.3                   | -8.6                      | 0.00             |

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | TVD (ft) | Vertical Section (ft) | Coordinate N (S)<br>(ft) | Coordinate E (W)<br>(ft) | DLS (deg/100 ft) |
|---------------------|-------------------|---------------|----------|-----------------------|--------------------------|--------------------------|------------------|
| 12,600.0            | 92.0              | 359.5         | 11,415.7 | 1,218.2               | 1,218.2                  | -9.5                     | 0.00             |
| 12,700.0            | 92.0              | 359.5         | 11,412.2 | 1,318.2               | 1,318.1                  | -10.5                    | 0.00             |
| 12,800.0            | 92.0              | 359.5         | 11,408.7 | 1,418.1               | 1,418.1                  | -11.4                    | 0.00             |
| 12,900.0            | 92.0              | 359.5         | 11,405.2 | 1,518.1               | 1,518.0                  | -12.3                    | 0.00             |
| 13,000.0            | 92.0              | 359.5         | 11,401.7 | 1,618.0               | 1,617.9                  | -13.2                    | 0.00             |
| 13,100.0            | 92.0              | 359.5         | 11,398.2 | 1,717.9               | 1,717.9                  | -14.1                    | 0.00             |
| 13,200.0            | 92.0              | 359.5         | 11,394.7 | 1,817.9               | 1,817.8                  | -15.0                    | 0.00             |
| 13,300.0            | 92.0              | 359.5         | 11,391.2 | 1,917.8               | 1,917.8                  | -15.9                    | 0.00             |
| 13,400.0            | 92.0              | 359.5         | 11,387.7 | 2,017.8               | 2,017.7                  | -16.8                    | 0.00             |
| 13,500.0            | 92.0              | 359.5         | 11,384.2 | 2,117.7               | 2,117.6                  | -17.7                    | 0.00             |
| 13,600.0            | 92.0              | 359.5         | 11,380.7 | 2,217.6               | 2,217.6                  | -18.6                    | 0.00             |
| 13,700.0            | 92.0              | 359.5         | 11,377.2 | 2,317.6               | 2,317.5                  | -19.5                    | 0.00             |
| 13,800.0            | 92.0              | 359.5         | 11,373.6 | 2,417.5               | 2,417.4                  | -20.4                    | 0.00             |
| 13,900.0            | 92.0              | 359.5         | 11,370.1 | 2,517.4               | 2,517.4                  | -21.3                    | 0.00             |
| 14,000.0            | 92.0              | 359.5         | 11,366.6 | 2,617.4               | 2,617.3                  | -22.2                    | 0.00             |
| 14,100.0            | 92.0              | 359.5         | 11,363.1 | 2,717.3               | 2,717.2                  | -23.1                    | 0.00             |
| 14,200.0            | 92.0              | 359.5         | 11,359.6 | 2,817.3               | 2,817.2                  | -24.0                    | 0.00             |
| 14,300.0            | 92.0              | 359.5         | 11,356.1 | 2,917.2               | 2,917.1                  | -25.0                    | 0.00             |
| 14,400.0            | 92.0              | 359.5         | 11,352.6 | 3,017.1               | 3,017.0                  | -25.9                    | 0.00             |
| 14,500.0            | 92.0              | 359.5         | 11,349.1 | 3,117.1               | 3,117.0                  | -26.8                    | 0.00             |
| 14,600.0            | 92.0              | 359.5         | 11,345.6 | 3,217.0               | 3,216.9                  | -27.7                    | 0.00             |
| 14,700.0            | 92.0              | 359.5         | 11,342.1 | 3,317.0               | 3,316.8                  | -28.6                    | 0.00             |
| 14,800.0            | 92.0              | 359.5         | 11,338.6 | 3,416.9               | 3,416.8                  | -29.5                    | 0.00             |
| 14,900.0            | 92.0              | 359.5         | 11,335.1 | 3,516.8               | 3,516.7                  | -30.4                    | 0.00             |
| 15,000.0            | 92.0              | 359.5         | 11,331.6 | 3,616.8               | 3,616.6                  | -31.3                    | 0.00             |
| 15,100.0            | 92.0              | 359.5         | 11,328.0 | 3,716.7               | 3,716.6                  | -32.2                    | 0.00             |
| 15,200.0            | 92.0              | 359.5         | 11,324.5 | 3,816.6               | 3,816.5                  | -33.1                    | 0.00             |
| 15,300.0            | 92.0              | 359.5         | 11,321.0 | 3,916.6               | 3,916.4                  | -34.0                    | 0.00             |
| 15,400.0            | 92.0              | 359.5         | 11,317.5 | 4,016.5               | 4,016.4                  | -34.9                    | 0.00             |
| 15,500.0            | 92.0              | 359.5         | 11,314.0 | 4,116.5               | 4,116.3                  | -35.8                    | 0.00             |
| 15,600.0            | 92.0              | 359.5         | 11,310.5 | 4,216.4               | 4,216.2                  | -36.7                    | 0.00             |
| 15,700.0            | 92.0              | 359.5         | 11,307.0 | 4,316.3               | 4,316.2                  | -37.6                    | 0.00             |
| 15,800.0            | 92.0              | 359.5         | 11,303.5 | 4,416.3               | 4,416.1                  | -38.5                    | 0.00             |
| 15,900.0            | 92.0              | 359.5         | 11,300.0 | 4,516.2               | 4,516.0                  | -39.5                    | 0.00             |
| 16,000.0            | 92.0              | 359.5         | 11,296.5 | 4,616.2               | 4,616.0                  | -40.4                    | 0.00             |
| 16,100.0            | 92.0              | 359.5         | 11,293.0 | 4,716.1               | 4,715.9                  | -41.3                    | 0.00             |
| 16,200.0            | 92.0              | 359.5         | 11,289.5 | 4,816.0               | 4,815.8                  | -42.2                    | 0.00             |
| 16,300.0            | 92.0              | 359.5         | 11,286.0 | 4,916.0               | 4,915.8                  | -43.1                    | 0.00             |
| 16,400.0            | 92.0              | 359.5         | 11,282.5 | 5,015.9               | 5,015.7                  | -44.0                    | 0.00             |
| 16,500.0            | 92.0              | 359.5         | 11,278.9 | 5,115.8               | 5,115.7                  | -44.9                    | 0.00             |
| 16,600.0            | 92.0              | 359.5         | 11,275.4 | 5,215.8               | 5,215.6                  | -45.8                    | 0.00             |
| 16,700.0            | 92.0              | 359.5         | 11,271.9 | 5,315.7               | 5,315.5                  | -46.7                    | 0.00             |
| 16,800.0            | 92.0              | 359.5         | 11,268.4 | 5,415.7               | 5,415.5                  | -47.6                    | 0.00             |
| 16,900.0            | 92.0              | 359.5         | 11,264.9 | 5,515.6               | 5,515.4                  | -48.5                    | 0.00             |
| 17,000.0            | 92.0              | 359.5         | 11,261.4 | 5,615.5               | 5,615.3                  | -49.4                    | 0.00             |
| 17,100.0            | 92.0              | 359.5         | 11,257.9 | 5,715.5               | 5,715.3                  | -50.3                    | 0.00             |
| 17,200.0            | 92.0              | 359.5         | 11,254.4 | 5,815.4               | 5,815.2                  | -51.2                    | 0.00             |
| 17,300.0            | 92.0              | 359.5         | 11,250.9 | 5,915.4               | 5,915.1                  | -52.1                    | 0.00             |
| 17,400.0            | 92.0              | 359.5         | 11,247.4 | 6,015.3               | 6,015.1                  | -53.0                    | 0.00             |
| 17,500.0            | 92.0              | 359.5         | 11,243.9 | 6,115.2               | 6,115.0                  | -54.0                    | 0.00             |
| 17,600.0            | 92.0              | 359.5         | 11,240.4 | 6,215.2               | 6,214.9                  | -54.9                    | 0.00             |
| 17,700.0            | 92.0              | 359.5         | 11,236.9 | 6,315.1               | 6,314.9                  | -55.8                    | 0.00             |
| 17,800.0            | 92.0              | 359.5         | 11,233.3 | 6,415.0               | 6,414.8                  | -56.7                    | 0.00             |
| 17,900.0            | 92.0              | 359.5         | 11,229.8 | 6,515.0               | 6,514.7                  | -57.6                    | 0.00             |
| 18,000.0            | 92.0              | 359.5         | 11,226.3 | 6,614.9               | 6,614.7                  | -58.5                    | 0.00             |
| 18,100.0            | 92.0              | 359.5         | 11,222.8 | 6,714.9               | 6,714.6                  | -59.4                    | 0.00             |
| 18,200.0            | 92.0              | 359.5         | 11,219.3 | 6,814.8               | 6,814.5                  | -60.3                    | 0.00             |
| 18,300.0            | 92.0              | 359.5         | 11,215.8 | 6,914.7               | 6,914.5                  | -61.2                    | 0.00             |
| 18,400.0            | 92.0              | 359.5         | 11,212.3 | 7,014.7               | 7,014.4                  | -62.1                    | 0.00             |
| 18,500.0            | 92.0              | 359.5         | 11,208.8 | 7,114.6               | 7,114.3                  | -63.0                    | 0.00             |
| 18,600.0            | 92.0              | 359.5         | 11,205.3 | 7,214.6               | 7,214.3                  | -63.9                    | 0.00             |
| 18,700.0            | 92.0              | 359.5         | 11,201.8 | 7,314.5               | 7,314.2                  | -64.8                    | 0.00             |
| 18,807.7            | 92.0              | 359.5         | 11,198.0 | 7,422.1               | 7,421.8                  | -65.8                    | 0.00             |