

Form 3160-5  
(June 2015)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
NMNM32636

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
MOSAIC FED 2419 WA 1H9. API Well No.  
30-015-47646-00-X110. Field and Pool or Exploratory Area  
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KAISER FRANCIS OIL COMPANY

Contact: ERIC HANSEN

E-Mail: EricH@KFOC.net

3a. Address

TULSA, OK 74121-1468

3b. Phone No. (include area code)

Ph: 918-491-4339

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 24 T23S R28E NWNW 1045FNL 156FWL  
32.295399 N Lat, 104.049149 W Lon

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                           |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       | Change to Original A                      |
|                                                      | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            | PD                                        |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Kaiser-Francis Oil Company request to change the SHL for the following wells in the Mosaic Fed Pad

1

Mosaic Fed 2419 WA 1H

API #30-015-47646

Approved SHL 1045 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

Proposed SHL 985 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

Mosaic Fed 2419 WA 2H

API #30-015-47647

Approved SHL 1075 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

Proposed SHL 1045 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #539271 verified by the BLM Well Information System**  
**For KAISER FRANCIS OIL COMPANY, sent to the Carlsbad**  
**Committed to AFMSS for processing by JUANA MEDRANO on 12/07/2020 (21JM0048SE)**

Name (Printed/Typed) ERIC HANSEN

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 12/03/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By CODY LAYTON

Title ASSIST FIELD MANAGER LANDS MINERALS

Date 12/09/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #539271 that would not fit on the form**

**32. Additional remarks, continued**

Mosaic Fed 2419 WC 1H  
API #30-015-46680  
Approved SHL 985 FNL 156 FWL 24-23S-28E Eddy County New Mexico.  
Proposed SHL 1005 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

Mosaic Fed 2419 WC 2H  
API #30-015-47574  
Approved SHL 1015 FNL 156 FWL 24-23S-28E Eddy County New Mexico.  
Proposed SHL 1025 FNL 156 FWL 24-23S-28E Eddy County New Mexico.

Kaiser Francis is also notify the BLM for a pad expansion. Expansion is approximately 1.344 Acres on the South west corner. Surface is private land. Approval from the surface owner will be made before construction. Attached are plats reflecting the expansion.

**Revisions to Operator-Submitted EC Data for Sundry Notice #539271**

|                | <b>Operator Submitted</b>                                                                | <b>BLM Revised (AFMSS)</b>                                                                         |
|----------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Sundry Type:   | APDCH<br>NOI                                                                             | APDCH<br>NOI                                                                                       |
| Lease:         | NMNM32636                                                                                | NMNM32636                                                                                          |
| Agreement:     |                                                                                          |                                                                                                    |
| Operator:      | KAISER FRANCIS OIL COMPANY<br>6733 SOUTH YALE AVE<br>TULSA, OK 74136<br>Ph: 918-491-4339 | KAISER FRANCIS OIL COMPANY<br><br>TULSA, OK 74121-1468<br>Ph: 918.491.4314                         |
| Admin Contact: | ERIC HANSEN<br>DRILLING ENGINEER<br>E-Mail: EricH@KFOC.net<br><br>Ph: 918-491-4339       | ERIC HANSEN<br>DRILLING ENGINEER<br>E-Mail: EricH@KFOC.net<br><br>Ph: 918-491-4339                 |
| Tech Contact:  | ERIC HANSEN<br>DRILLING ENGINEER<br>E-Mail: EricH@KFOC.net<br><br>Ph: 918-491-4339       | ERIC HANSEN<br>DRILLING ENGINEER<br>E-Mail: EricH@KFOC.net<br><br>Ph: 918-491-4339                 |
| Location:      |                                                                                          |                                                                                                    |
| State:         | NM                                                                                       | NM                                                                                                 |
| County:        | EDDY                                                                                     | EDDY                                                                                               |
| Field/Pool:    | BOBCAT DRAW WOLFCAMP                                                                     | PURPLE SAGE-WOLFCAMP (GAS)                                                                         |
| Well/Facility: | MOSAIC FED 2419 WA 1H<br>Sec 24 T23S R28E Mer NMP FSL FEL                                | MOSAIC FED 2419 WA 1H<br>Sec 24 T23S R28E NWNW 1045FNL 156FWL<br>32.295399 N Lat, 104.049149 W Lon |

## District I

1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

## District II

811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

## District III

1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

## State of New Mexico

## Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                      |                                                |
|-----------------------------------------|------------------------------------------------------|------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-47574 | <sup>2</sup> Pool Code<br>98220                      | <sup>3</sup> Pool Name<br>Purple Sage Wolfcamp |
| <sup>4</sup> Property Code<br>327120    | <sup>5</sup> Property Name<br>MOSAIC FED 2419 WC     | <sup>6</sup> Well Number<br>2H                 |
| <sup>7</sup> OGRID No.<br>12361         | <sup>8</sup> Operator Name<br>KAISER-FRANCIS OIL CO. | <sup>9</sup> Elevation<br>2986.8               |

<sup>10</sup> Surface Location

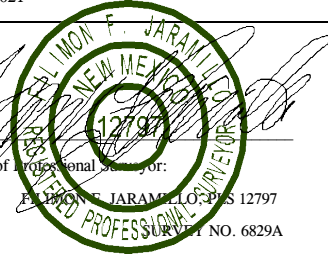
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 24      | 23 S     | 28 E  |         | 1025          | NORTH            | 156           | WEST           | EDDY   |

<sup>11</sup> 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 19      | 23 S     | 29 E  |         | 1879          | NORTH            | 199           | EAST           | EDDY   |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>636.65 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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.</p> <p><b>Christina Opfer</b> 1/10/2022<br/>Signature Date</p> <p><b>Christina Opfer</b><br/>Printed Name</p> <p><b>ChristinaO@kfoc.net</b><br/>E-mail Address</p> |  |  |  |
| <p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>NOVEMBER 30, 2021</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: 12797</p>                                                                                                                                                                                                                                |  |  |  |

Intent ☐ As Drilled ☒

|                                                 |                                             |                          |
|-------------------------------------------------|---------------------------------------------|--------------------------|
| API #                                           |                                             |                          |
| Operator Name:<br><b>KAISER-FRANCIS OIL CO.</b> | Property Name:<br><b>MOSAIC FED 2419 WC</b> | Well Number<br><b>2H</b> |

Kick Off Point (KOP)

|                               |                      |                        |                     |     |                                 |                          |                   |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|-------------------|-------------------------|-----------------------|
| UL<br><b>E</b>                | Section<br><b>24</b> | Township<br><b>23S</b> | Range<br><b>28E</b> | Lot | Feet<br><b>1859</b>             | From N/S<br><b>NORTH</b> | Feet<br><b>84</b> | From E/W<br><b>WEST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.2931616</b> |                      |                        |                     |     | Longitude<br><b>104.0493749</b> |                          |                   |                         | NAD<br><b>83</b>      |

First Take Point (FTP)

|                               |                      |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>E</b>                | Section<br><b>24</b> | Township<br><b>23S</b> | Range<br><b>28E</b> | Lot | Feet<br><b>1918</b>             | From N/S<br><b>NORTH</b> | Feet<br><b>422</b> | From E/W<br><b>WEST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.2929956</b> |                      |                        |                     |     | Longitude<br><b>104.0482809</b> |                          |                    |                         | NAD<br><b>83</b>      |

Last Take Point (LTP)

|                               |                      |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>H</b>                | Section<br><b>19</b> | Township<br><b>23S</b> | Range<br><b>29E</b> | Lot | Feet<br><b>1892</b>             | From N/S<br><b>NORTH</b> | Feet<br><b>406</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.2926653</b> |                      |                        |                     |     | Longitude<br><b>104.0168465</b> |                          |                    |                         | NAD<br><b>83</b>      |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                                                  |                                          |                       |
|--------------------------------------------------|------------------------------------------|-----------------------|
| API #<br>30-015-47647                            |                                          |                       |
| Operator Name:<br><br>Kaiser-Francis Oil Company | Property Name:<br><br>Mosaic Fed 2419 WA | Well Number<br><br>2H |

KZ 06/29/2018

KAISER FRANCIS OIL CO.  
MOSAIC FED 2419 WC 2H - HORIZONTAL

EDDY COUNTY, N.M. 27  
SEC 24-T23S-R28E  
Your Ref:

| Measured<br>Depth<br>(ft) | Incl. | Azim.  | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | LATDEC<br>(ft) | LONGDEC<br>(dega/100ft) | Vertical<br>Section | Dogleg<br>Rate |
|---------------------------|-------|--------|---------------------------|-------------------|------------------|----------------|-------------------------|---------------------|----------------|
| 0.00                      | 0.00  | 0.00   | 0.00                      | 0.00              | 0.00             | 32.30          | -104.05                 | 0.00                | 0.00           |
| 140.00                    | 0.04  | 13.62  | 140.00                    | 0.05              | 0.01             | 32.30          | -104.05                 | 0.01                | 0.03           |
| 229.00                    | 0.44  | 286.88 | 229.00                    | 0.18              | -0.31            | 32.30          | -104.05                 | -0.31               | 0.49           |
| 329.00                    | 0.57  | 231.15 | 329.00                    | -0.02             | -1.06            | 32.30          | -104.05                 | -1.06               | 0.49           |
| 458.00                    | 0.53  | 201.97 | 457.99                    | -0.98             | -1.79            | 32.30          | -104.05                 | -1.79               | 0.22           |
| 602.00                    | 0.62  | 192.04 | 601.98                    | -2.36             | -2.20            | 32.30          | -104.05                 | -2.20               | 0.09           |
| 692.00                    | 0.88  | 198.46 | 691.98                    | -3.49             | -2.52            | 32.30          | -104.05                 | -2.52               | 0.30           |
| 783.00                    | 0.75  | 214.01 | 782.97                    | -4.65             | -3.07            | 32.30          | -104.05                 | -3.07               | 0.28           |
| 875.00                    | 0.88  | 217.44 | 874.96                    | -5.71             | -3.84            | 32.30          | -104.05                 | -3.84               | 0.15           |
| 967.00                    | 1.05  | 204.08 | 966.94                    | -7.04             | -4.61            | 32.30          | -104.05                 | -4.61               | 0.31           |
| 1059.00                   | 1.01  | 195.91 | 1058.93                   | -8.59             | -5.18            | 32.30          | -104.05                 | -5.18               | 0.17           |
| 1151.00                   | 0.88  | 207.42 | 1150.92                   | -9.99             | -5.73            | 32.30          | -104.05                 | -5.73               | 0.25           |
| 1246.00                   | 0.88  | 187.30 | 1245.91                   | -11.37            | -6.15            | 32.30          | -104.05                 | -6.15               | 0.32           |
| 1340.00                   | 1.01  | 188.00 | 1339.89                   | -12.90            | -6.36            | 32.30          | -104.05                 | -6.36               | 0.14           |
| 1435.00                   | 1.01  | 195.56 | 1434.88                   | -14.54            | -6.70            | 32.30          | -104.05                 | -6.70               | 0.14           |
| 1529.00                   | 1.67  | 234.14 | 1528.85                   | -16.14            | -8.04            | 32.30          | -104.05                 | -8.04               | 1.15           |
| 1624.00                   | 2.15  | 240.21 | 1623.80                   | -17.83            | -10.70           | 32.30          | -104.05                 | -10.70              | 0.55           |
| 1718.00                   | 1.93  | 236.25 | 1717.74                   | -19.59            | -13.55           | 32.30          | -104.05                 | -13.55              | 0.28           |
| 1812.00                   | 2.33  | 245.48 | 1811.68                   | -21.26            | -16.60           | 32.30          | -104.05                 | -16.60              | 0.56           |
| 1907.00                   | 2.64  | 230.63 | 1906.59                   | -23.45            | -20.05           | 32.30          | -104.05                 | -20.05              | 0.75           |
| 2001.00                   | 1.85  | 220.43 | 2000.52                   | -25.98            | -22.71           | 32.30          | -104.05                 | -22.71              | 0.94           |
| 2096.00                   | 2.37  | 256.99 | 2095.45                   | -27.59            | -25.62           | 32.30          | -104.05                 | -25.62              | 1.49           |
| 2190.00                   | 2.90  | 244.69 | 2189.36                   | -29.04            | -29.66           | 32.30          | -104.05                 | -29.66              | 0.82           |
| 2285.00                   | 2.73  | 229.66 | 2284.24                   | -31.54            | -33.56           | 32.30          | -104.05                 | -33.56              | 0.79           |
| 2380.00                   | 2.99  | 224.47 | 2379.12                   | -34.77            | -37.02           | 32.30          | -104.05                 | -37.02              | 0.39           |
| 2474.00                   | 2.68  | 223.42 | 2473.01                   | -38.11            | -40.25           | 32.30          | -104.05                 | -40.25              | 0.33           |
| 2568.00                   | 2.55  | 226.93 | 2566.91                   | -41.14            | -43.29           | 32.30          | -104.05                 | -43.29              | 0.22           |
| 2663.00                   | 2.42  | 221.31 | 2661.82                   | -44.09            | -46.15           | 32.30          | -104.05                 | -46.15              | 0.29           |
| 2715.00                   | 2.33  | 213.57 | 2713.78                   | -45.79            | -47.46           | 32.30          | -104.05                 | -47.46              | 0.64           |
| 2786.00                   | 2.33  | 207.47 | 2784.72                   | -48.28            | -48.93           | 32.30          | -104.05                 | -48.93              | 0.35           |
| 2881.00                   | 3.21  | 199.21 | 2879.61                   | -52.50            | -50.69           | 32.30          | -104.05                 | -50.69              | 1.01           |
| 2975.00                   | 4.40  | 185.59 | 2973.40                   | -58.58            | -51.91           | 32.30          | -104.05                 | -51.91              | 1.58           |

|         |       |        |         |         |        |       |         |        |      |
|---------|-------|--------|---------|---------|--------|-------|---------|--------|------|
| 3070.00 | 5.80  | 182.42 | 3068.02 | -67.00  | -52.47 | 32.30 | -104.05 | -52.47 | 1.50 |
| 3165.00 | 6.81  | 187.26 | 3162.45 | -77.38  | -53.38 | 32.30 | -104.05 | -53.38 | 1.20 |
| 3260.00 | 8.35  | 191.30 | 3256.61 | -89.73  | -55.45 | 32.30 | -104.05 | -55.45 | 1.71 |
| 3355.00 | 10.33 | 184.35 | 3350.35 | -104.99 | -57.44 | 32.30 | -104.05 | -57.44 | 2.40 |
| 3449.00 | 11.47 | 181.19 | 3442.66 | -122.74 | -58.28 | 32.29 | -104.05 | -58.28 | 1.37 |
| 3544.00 | 12.44 | 176.01 | 3535.60 | -142.39 | -57.76 | 32.29 | -104.05 | -57.76 | 1.52 |
| 3639.00 | 13.45 | 177.59 | 3628.18 | -163.64 | -56.58 | 32.29 | -104.05 | -56.58 | 1.13 |
| 3734.00 | 13.32 | 178.11 | 3720.60 | -185.62 | -55.76 | 32.29 | -104.05 | -55.76 | 0.19 |
| 3829.00 | 13.36 | 178.38 | 3813.04 | -207.53 | -55.09 | 32.29 | -104.05 | -55.09 | 0.08 |
| 3924.00 | 13.36 | 179.78 | 3905.47 | -229.47 | -54.73 | 32.29 | -104.05 | -54.73 | 0.34 |
| 4019.00 | 12.57 | 179.87 | 3998.05 | -250.79 | -54.67 | 32.29 | -104.05 | -54.67 | 0.83 |
| 4114.00 | 13.05 | 176.97 | 4090.68 | -271.84 | -54.08 | 32.29 | -104.05 | -54.08 | 0.84 |
| 4209.00 | 13.71 | 176.97 | 4183.10 | -293.79 | -52.92 | 32.29 | -104.05 | -52.92 | 0.69 |
| 4304.00 | 13.45 | 176.36 | 4275.45 | -316.06 | -51.62 | 32.29 | -104.05 | -51.62 | 0.31 |
| 4398.00 | 13.19 | 178.20 | 4366.92 | -337.69 | -50.59 | 32.29 | -104.05 | -50.59 | 0.53 |
| 4493.00 | 13.76 | 177.94 | 4459.30 | -359.81 | -49.84 | 32.29 | -104.05 | -49.84 | 0.60 |
| 4588.00 | 13.93 | 180.14 | 4551.54 | -382.54 | -49.46 | 32.29 | -104.05 | -49.46 | 0.58 |
| 4683.00 | 13.76 | 179.52 | 4643.78 | -405.27 | -49.40 | 32.29 | -104.05 | -49.40 | 0.24 |
| 4778.00 | 13.85 | 179.78 | 4736.04 | -427.94 | -49.26 | 32.29 | -104.05 | -49.26 | 0.12 |
| 4873.00 | 12.97 | 178.11 | 4828.45 | -449.96 | -48.86 | 32.29 | -104.05 | -48.86 | 1.01 |
| 4968.00 | 11.87 | 177.06 | 4921.22 | -470.38 | -48.01 | 32.29 | -104.05 | -48.01 | 1.18 |
| 5063.00 | 12.22 | 178.29 | 5014.13 | -490.18 | -47.21 | 32.29 | -104.05 | -47.21 | 0.46 |
| 5158.00 | 11.47 | 179.35 | 5107.11 | -509.68 | -46.80 | 32.29 | -104.05 | -46.80 | 0.82 |
| 5253.00 | 10.64 | 178.38 | 5200.34 | -527.89 | -46.45 | 32.29 | -104.05 | -46.45 | 0.90 |
| 5347.00 | 11.47 | 182.33 | 5292.60 | -545.90 | -46.58 | 32.29 | -104.05 | -46.58 | 1.19 |
| 5442.00 | 11.78 | 184.79 | 5385.65 | -565.01 | -47.78 | 32.29 | -104.05 | -47.78 | 0.62 |
| 5537.00 | 10.90 | 182.86 | 5478.80 | -583.64 | -49.03 | 32.29 | -104.05 | -49.03 | 1.01 |
| 5632.00 | 11.87 | 183.21 | 5571.93 | -602.37 | -50.03 | 32.29 | -104.05 | -50.03 | 1.02 |
| 5727.00 | 11.91 | 186.73 | 5664.89 | -621.86 | -51.73 | 32.29 | -104.05 | -51.73 | 0.76 |
| 5822.00 | 10.81 | 185.50 | 5758.03 | -640.46 | -53.73 | 32.29 | -104.05 | -53.73 | 1.19 |
| 5917.00 | 10.33 | 184.00 | 5851.42 | -657.83 | -55.18 | 32.29 | -104.05 | -55.18 | 0.58 |
| 6012.00 | 9.45  | 183.83 | 5945.00 | -674.10 | -56.29 | 32.29 | -104.05 | -56.29 | 0.93 |
| 6107.00 | 9.10  | 181.98 | 6038.76 | -689.39 | -57.07 | 32.29 | -104.05 | -57.07 | 0.48 |
| 6202.00 | 8.40  | 181.98 | 6132.65 | -703.84 | -57.57 | 32.29 | -104.05 | -57.57 | 0.74 |
| 6297.00 | 8.26  | 186.90 | 6226.65 | -717.55 | -58.63 | 32.29 | -104.05 | -58.63 | 0.76 |
| 6391.00 | 7.47  | 183.65 | 6319.77 | -730.35 | -59.83 | 32.29 | -104.05 | -59.83 | 0.96 |
| 6486.00 | 5.93  | 178.82 | 6414.12 | -741.42 | -60.12 | 32.29 | -104.05 | -60.12 | 1.72 |
| 6581.00 | 4.75  | 176.44 | 6508.70 | -750.25 | -59.78 | 32.29 | -104.05 | -59.78 | 1.26 |
| 6676.00 | 3.47  | 165.81 | 6603.46 | -756.96 | -58.83 | 32.29 | -104.05 | -58.83 | 1.56 |
| 6771.00 | 2.59  | 155.53 | 6698.33 | -761.70 | -57.24 | 32.29 | -104.05 | -57.24 | 1.09 |
| 6866.00 | 3.34  | 157.64 | 6793.20 | -766.22 | -55.29 | 32.29 | -104.05 | -55.29 | 0.80 |
| 6961.00 | 2.86  | 171.35 | 6888.06 | -771.12 | -53.88 | 32.29 | -104.05 | -53.88 | 0.93 |
| 7055.00 | 1.54  | 187.26 | 6981.99 | -774.69 | -53.69 | 32.29 | -104.05 | -53.69 | 1.53 |
| 7150.00 | 1.80  | 241.66 | 7076.96 | -776.67 | -55.17 | 32.29 | -104.05 | -55.17 | 1.63 |
| 7245.00 | 2.07  | 252.73 | 7171.90 | -777.88 | -58.12 | 32.29 | -104.05 | -58.12 | 0.48 |
| 7340.00 | 2.29  | 234.45 | 7266.83 | -779.50 | -61.30 | 32.29 | -104.05 | -61.30 | 0.76 |
| 7435.00 | 2.59  | 231.38 | 7361.75 | -781.94 | -64.52 | 32.29 | -104.05 | -64.52 | 0.34 |



|          |       |        |          |         |         |       |         |         |       |
|----------|-------|--------|----------|---------|---------|-------|---------|---------|-------|
| 7530.00  | 2.33  | 234.45 | 7456.66  | -784.40 | -67.77  | 32.29 | -104.05 | -67.77  | 0.31  |
| 7625.00  | 1.98  | 243.33 | 7551.59  | -786.26 | -70.81  | 32.29 | -104.05 | -70.81  | 0.51  |
| 7720.00  | 2.29  | 246.05 | 7646.53  | -787.77 | -74.01  | 32.29 | -104.05 | -74.01  | 0.34  |
| 7815.00  | 2.07  | 250.98 | 7741.46  | -789.10 | -77.36  | 32.29 | -104.05 | -77.36  | 0.30  |
| 7909.00  | 2.86  | 253.17 | 7835.37  | -790.33 | -81.21  | 32.29 | -104.05 | -81.21  | 0.85  |
| 8004.00  | 2.77  | 250.80 | 7930.26  | -791.77 | -85.65  | 32.29 | -104.05 | -85.65  | 0.15  |
| 8099.00  | 1.32  | 201.14 | 8025.20  | -793.55 | -88.21  | 32.29 | -104.05 | -88.21  | 2.28  |
| 8194.00  | 1.58  | 170.91 | 8120.17  | -795.86 | -88.40  | 32.29 | -104.05 | -88.40  | 0.84  |
| 8289.00  | 1.63  | 193.50 | 8215.13  | -798.47 | -88.51  | 32.29 | -104.05 | -88.51  | 0.66  |
| 8384.00  | 1.80  | 186.73 | 8310.09  | -801.26 | -89.00  | 32.29 | -104.05 | -89.00  | 0.28  |
| 8479.00  | 1.49  | 190.60 | 8405.05  | -803.96 | -89.40  | 32.29 | -104.05 | -89.40  | 0.35  |
| 8574.00  | 1.27  | 204.83 | 8500.02  | -806.13 | -90.07  | 32.29 | -104.05 | -90.07  | 0.43  |
| 8668.00  | 1.10  | 217.58 | 8594.00  | -807.79 | -91.06  | 32.29 | -104.05 | -91.06  | 0.33  |
| 8763.00  | 0.88  | 280.68 | 8688.99  | -808.38 | -92.33  | 32.29 | -104.05 | -92.33  | 1.11  |
| 8858.00  | 1.45  | 278.66 | 8783.97  | -808.06 | -94.24  | 32.29 | -104.05 | -94.24  | 0.60  |
| 8953.00  | 1.54  | 258.80 | 8878.94  | -808.13 | -96.68  | 32.29 | -104.05 | -96.68  | 0.55  |
| 9048.00  | 1.19  | 202.90 | 8973.92  | -809.29 | -98.31  | 32.29 | -104.05 | -98.31  | 1.39  |
| 9143.00  | 1.41  | 176.18 | 9068.89  | -811.36 | -98.62  | 32.29 | -104.05 | -98.62  | 0.67  |
| 9238.00  | 1.49  | 178.11 | 9163.86  | -813.76 | -98.50  | 32.29 | -104.05 | -98.50  | 0.10  |
| 9333.00  | 1.85  | 182.25 | 9258.82  | -816.53 | -98.52  | 32.29 | -104.05 | -98.52  | 0.40  |
| 9427.00  | 1.54  | 175.39 | 9352.78  | -819.30 | -98.48  | 32.29 | -104.05 | -98.48  | 0.39  |
| 9522.00  | 1.85  | 188.49 | 9447.74  | -822.09 | -98.60  | 32.29 | -104.05 | -98.60  | 0.52  |
| 9617.00  | 1.41  | 198.68 | 9542.70  | -824.72 | -99.20  | 32.29 | -104.05 | -99.20  | 0.55  |
| 9712.00  | 1.54  | 207.56 | 9637.67  | -826.95 | -100.17 | 32.29 | -104.05 | -100.17 | 0.28  |
| 9802.00  | 1.10  | 196.13 | 9727.65  | -828.86 | -100.97 | 32.29 | -104.05 | -100.97 | 0.57  |
| 9929.00  | 1.85  | 189.63 | 9854.60  | -832.05 | -101.65 | 32.29 | -104.05 | -101.65 | 0.60  |
| 10024.00 | 1.01  | 89.26  | 9949.58  | -833.55 | -101.07 | 32.29 | -104.05 | -101.07 | 2.38  |
| 10119.00 | 1.67  | 57.44  | 10044.56 | -832.79 | -99.06  | 32.29 | -104.05 | -99.06  | 1.02  |
| 10214.00 | 0.97  | 64.12  | 10139.53 | -831.70 | -97.17  | 32.29 | -104.05 | -97.17  | 0.75  |
| 10309.00 | 8.26  | 89.35  | 10234.17 | -831.27 | -89.62  | 32.29 | -104.05 | -89.62  | 7.78  |
| 10404.00 | 19.56 | 98.84  | 10326.24 | -833.64 | -67.00  | 32.29 | -104.05 | -67.00  | 12.10 |
| 10498.00 | 32.04 | 99.98  | 10410.70 | -840.41 | -26.74  | 32.29 | -104.05 | -26.74  | 13.29 |
| 10593.00 | 40.44 | 100.95 | 10487.26 | -850.65 | 28.43   | 32.29 | -104.05 | 28.43   | 8.86  |
| 10688.00 | 55.78 | 99.10  | 10550.50 | -862.79 | 97.88   | 32.29 | -104.05 | 97.88   | 16.21 |
| 10783.00 | 70.46 | 100.77 | 10593.34 | -877.44 | 181.10  | 32.29 | -104.05 | 181.10  | 15.53 |
| 10878.00 | 78.90 | 99.01  | 10618.42 | -893.14 | 271.28  | 32.29 | -104.05 | 271.28  | 9.06  |
| 10973.00 | 87.21 | 95.41  | 10629.90 | -904.94 | 364.74  | 32.29 | -104.05 | 364.74  | 9.52  |
| 11068.00 | 88.26 | 96.29  | 10633.65 | -914.61 | 459.17  | 32.29 | -104.05 | 459.17  | 1.44  |
| 11163.00 | 85.85 | 93.74  | 10638.54 | -922.91 | 553.67  | 32.29 | -104.05 | 553.67  | 3.69  |
| 11258.00 | 92.53 | 94.88  | 10639.88 | -930.04 | 648.34  | 32.29 | -104.05 | 648.34  | 7.13  |
| 11353.00 | 86.95 | 94.27  | 10640.31 | -937.62 | 742.99  | 32.29 | -104.05 | 742.99  | 5.91  |
| 11448.00 | 82.81 | 91.98  | 10648.79 | -942.78 | 837.45  | 32.29 | -104.05 | 837.45  | 4.98  |
| 11543.00 | 90.07 | 92.95  | 10654.68 | -946.86 | 932.11  | 32.29 | -104.05 | 932.11  | 7.71  |
| 11637.00 | 90.95 | 91.72  | 10653.84 | -950.69 | 1026.03 | 32.29 | -104.05 | 1026.03 | 1.61  |
| 11732.00 | 90.46 | 88.47  | 10652.67 | -950.84 | 1121.01 | 32.29 | -104.05 | 1121.01 | 3.46  |
| 11827.00 | 88.22 | 84.16  | 10653.77 | -944.74 | 1215.78 | 32.29 | -104.04 | 1215.78 | 5.11  |
| 11922.00 | 85.67 | 83.02  | 10658.83 | -934.15 | 1310.04 | 32.29 | -104.04 | 1310.04 | 2.94  |



|          |       |        |          |          |         |       |         |         |      |
|----------|-------|--------|----------|----------|---------|-------|---------|---------|------|
| 12016.00 | 87.78 | 85.74  | 10664.20 | -924.97  | 1403.42 | 32.29 | -104.04 | 1403.42 | 3.66 |
| 12111.00 | 91.87 | 90.22  | 10664.49 | -921.62  | 1498.32 | 32.29 | -104.04 | 1498.32 | 6.38 |
| 12242.00 | 92.26 | 89.17  | 10659.77 | -920.92  | 1629.23 | 32.29 | -104.04 | 1629.23 | 0.85 |
| 12337.00 | 92.09 | 89.08  | 10656.17 | -919.47  | 1724.15 | 32.29 | -104.04 | 1724.15 | 0.20 |
| 12432.00 | 94.24 | 91.81  | 10650.92 | -920.21  | 1818.98 | 32.29 | -104.04 | 1818.98 | 3.65 |
| 12527.00 | 94.11 | 92.07  | 10644.01 | -923.41  | 1913.68 | 32.29 | -104.04 | 1913.68 | 0.31 |
| 12622.00 | 94.33 | 92.51  | 10637.01 | -927.20  | 2008.34 | 32.29 | -104.04 | 2008.34 | 0.52 |
| 12717.00 | 93.49 | 93.74  | 10630.54 | -932.37  | 2102.98 | 32.29 | -104.04 | 2102.98 | 1.57 |
| 12811.00 | 91.08 | 96.11  | 10626.79 | -940.43  | 2196.54 | 32.29 | -104.04 | 2196.54 | 3.59 |
| 12906.00 | 87.74 | 99.28  | 10627.77 | -953.15  | 2290.66 | 32.29 | -104.04 | 2290.66 | 4.85 |
| 13001.00 | 83.47 | 99.98  | 10635.05 | -968.99  | 2384.02 | 32.29 | -104.04 | 2384.02 | 4.55 |
| 13096.00 | 82.42 | 98.57  | 10646.71 | -984.18  | 2477.07 | 32.29 | -104.04 | 2477.07 | 1.84 |
| 13191.00 | 80.97 | 95.76  | 10660.44 | -995.91  | 2570.32 | 32.29 | -104.04 | 2570.32 | 3.30 |
| 13286.00 | 81.93 | 93.48  | 10674.56 | -1003.47 | 2663.96 | 32.29 | -104.04 | 2663.96 | 2.58 |
| 13381.00 | 82.99 | 92.77  | 10687.03 | -1008.61 | 2757.99 | 32.29 | -104.04 | 2757.99 | 1.34 |
| 13475.00 | 86.77 | 90.58  | 10695.42 | -1011.34 | 2851.55 | 32.29 | -104.04 | 2851.55 | 4.64 |
| 13570.00 | 89.54 | 88.11  | 10698.48 | -1010.25 | 2946.48 | 32.29 | -104.04 | 2946.48 | 3.91 |
| 13665.00 | 90.51 | 85.57  | 10698.44 | -1005.01 | 3041.33 | 32.29 | -104.04 | 3041.33 | 2.86 |
| 13760.00 | 88.57 | 88.29  | 10699.20 | -999.93  | 3136.18 | 32.29 | -104.04 | 3136.18 | 3.52 |
| 13855.00 | 91.21 | 91.54  | 10699.38 | -999.79  | 3231.15 | 32.29 | -104.04 | 3231.15 | 4.41 |
| 13950.00 | 88.04 | 91.28  | 10700.00 | -1002.12 | 3326.11 | 32.29 | -104.04 | 3326.11 | 3.35 |
| 14044.00 | 90.46 | 90.05  | 10701.23 | -1003.21 | 3420.09 | 32.29 | -104.04 | 3420.09 | 2.89 |
| 14139.00 | 86.55 | 86.88  | 10703.71 | -1000.67 | 3514.99 | 32.29 | -104.04 | 3514.99 | 5.30 |
| 14234.00 | 86.68 | 84.51  | 10709.32 | -993.56  | 3609.55 | 32.29 | -104.04 | 3609.55 | 2.49 |
| 14329.00 | 89.98 | 87.94  | 10712.09 | -987.31  | 3704.28 | 32.29 | -104.04 | 3704.28 | 5.01 |
| 14424.00 | 87.56 | 88.11  | 10714.13 | -984.03  | 3799.19 | 32.29 | -104.04 | 3799.19 | 2.55 |
| 14519.00 | 90.59 | 88.99  | 10715.66 | -981.63  | 3894.14 | 32.29 | -104.04 | 3894.14 | 3.32 |
| 14614.00 | 91.78 | 88.64  | 10713.70 | -979.67  | 3989.10 | 32.29 | -104.04 | 3989.10 | 1.31 |
| 14709.00 | 92.92 | 91.10  | 10709.80 | -979.45  | 4084.01 | 32.29 | -104.04 | 4084.01 | 2.85 |
| 14803.00 | 92.22 | 92.07  | 10705.59 | -982.05  | 4177.87 | 32.29 | -104.04 | 4177.87 | 1.27 |
| 14898.00 | 90.02 | 90.58  | 10703.73 | -984.24  | 4272.82 | 32.29 | -104.03 | 4272.82 | 2.80 |
| 14993.00 | 89.71 | 89.52  | 10703.95 | -984.33  | 4367.82 | 32.29 | -104.03 | 4367.82 | 1.16 |
| 15088.00 | 89.19 | 88.11  | 10704.87 | -982.36  | 4462.79 | 32.29 | -104.03 | 4462.79 | 1.58 |
| 15183.00 | 85.32 | 88.82  | 10709.41 | -979.82  | 4557.63 | 32.29 | -104.03 | 4557.63 | 4.14 |
| 15277.00 | 88.62 | 89.96  | 10714.38 | -978.82  | 4651.48 | 32.29 | -104.03 | 4651.48 | 3.71 |
| 15372.00 | 90.81 | 89.43  | 10714.86 | -978.32  | 4746.47 | 32.29 | -104.03 | 4746.47 | 2.37 |
| 15467.00 | 85.80 | 92.51  | 10717.67 | -979.92  | 4841.37 | 32.29 | -104.03 | 4841.37 | 6.19 |
| 15561.00 | 88.97 | 97.43  | 10721.96 | -988.06  | 4934.88 | 32.29 | -104.03 | 4934.88 | 6.22 |
| 15655.00 | 89.58 | 100.51 | 10723.15 | -1002.71 | 5027.71 | 32.29 | -104.03 | 5027.71 | 3.34 |
| 15750.00 | 90.24 | 102.00 | 10723.30 | -1021.25 | 5120.88 | 32.29 | -104.03 | 5120.88 | 1.72 |
| 15845.00 | 90.68 | 100.51 | 10722.53 | -1039.79 | 5214.05 | 32.29 | -104.03 | 5214.05 | 1.64 |
| 15940.00 | 85.93 | 96.99  | 10725.34 | -1054.23 | 5307.86 | 32.29 | -104.03 | 5307.86 | 6.22 |
| 16034.00 | 85.89 | 95.41  | 10732.05 | -1064.36 | 5401.07 | 32.29 | -104.03 | 5401.07 | 1.68 |
| 16128.00 | 87.30 | 92.07  | 10737.63 | -1070.48 | 5494.69 | 32.29 | -104.03 | 5494.69 | 3.85 |
| 16224.00 | 90.55 | 89.70  | 10739.43 | -1071.96 | 5590.64 | 32.29 | -104.03 | 5590.64 | 4.19 |
| 16319.00 | 90.73 | 86.97  | 10738.37 | -1069.20 | 5685.59 | 32.29 | -104.03 | 5685.59 | 2.88 |
| 16414.00 | 89.76 | 85.48  | 10737.97 | -1062.95 | 5780.38 | 32.29 | -104.03 | 5780.38 | 1.87 |

|          |       |       |          |          |          |       |         |          |      |
|----------|-------|-------|----------|----------|----------|-------|---------|----------|------|
| 16509.00 | 90.33 | 87.06 | 10737.89 | -1056.77 | 5875.17  | 32.29 | -104.03 | 5875.17  | 1.77 |
| 16603.00 | 88.75 | 86.27 | 10738.65 | -1051.30 | 5969.01  | 32.29 | -104.03 | 5969.01  | 1.88 |
| 16698.00 | 87.78 | 86.71 | 10741.52 | -1045.48 | 6063.78  | 32.29 | -104.03 | 6063.78  | 1.12 |
| 16793.00 | 86.55 | 89.43 | 10746.22 | -1042.29 | 6158.60  | 32.29 | -104.03 | 6158.60  | 3.14 |
| 16888.00 | 84.44 | 88.99 | 10753.68 | -1040.98 | 6253.29  | 32.29 | -104.03 | 6253.29  | 2.27 |
| 16983.00 | 85.76 | 88.99 | 10761.80 | -1039.31 | 6347.93  | 32.29 | -104.03 | 6347.93  | 1.39 |
| 17078.00 | 86.37 | 89.08 | 10768.32 | -1037.72 | 6442.69  | 32.29 | -104.03 | 6442.69  | 0.65 |
| 17173.00 | 90.86 | 93.12 | 10770.61 | -1039.54 | 6537.60  | 32.29 | -104.03 | 6537.60  | 6.36 |
| 17268.00 | 90.29 | 92.51 | 10769.66 | -1044.21 | 6632.48  | 32.29 | -104.03 | 6632.48  | 0.88 |
| 17363.00 | 84.31 | 90.05 | 10774.13 | -1046.33 | 6727.30  | 32.29 | -104.03 | 6727.30  | 6.81 |
| 17458.00 | 86.46 | 90.05 | 10781.78 | -1046.41 | 6821.99  | 32.29 | -104.03 | 6821.99  | 2.26 |
| 17553.00 | 87.69 | 87.41 | 10786.62 | -1044.31 | 6916.83  | 32.29 | -104.03 | 6916.83  | 3.06 |
| 17648.00 | 89.58 | 86.80 | 10788.89 | -1039.51 | 7011.68  | 32.29 | -104.03 | 7011.68  | 2.09 |
| 17743.00 | 89.98 | 85.65 | 10789.25 | -1033.26 | 7106.47  | 32.29 | -104.03 | 7106.47  | 1.28 |
| 17838.00 | 89.49 | 86.97 | 10789.69 | -1027.15 | 7201.27  | 32.29 | -104.03 | 7201.27  | 1.48 |
| 17932.00 | 88.62 | 87.06 | 10791.24 | -1022.25 | 7295.13  | 32.29 | -104.03 | 7295.13  | 0.93 |
| 18027.00 | 89.36 | 86.18 | 10792.92 | -1016.65 | 7389.95  | 32.29 | -104.02 | 7389.95  | 1.21 |
| 18122.00 | 89.54 | 86.97 | 10793.83 | -1010.98 | 7484.77  | 32.29 | -104.02 | 7484.77  | 0.85 |
| 18217.00 | 88.35 | 85.65 | 10795.58 | -1004.86 | 7579.55  | 32.29 | -104.02 | 7579.55  | 1.87 |
| 18312.00 | 86.11 | 83.81 | 10800.17 | -996.15  | 7674.03  | 32.29 | -104.02 | 7674.03  | 3.05 |
| 18407.00 | 89.67 | 87.85 | 10803.67 | -989.25  | 7768.68  | 32.29 | -104.02 | 7768.68  | 5.67 |
| 18502.00 | 90.46 | 88.29 | 10803.56 | -986.05  | 7863.63  | 32.29 | -104.02 | 7863.63  | 0.95 |
| 18596.00 | 91.30 | 87.94 | 10802.12 | -982.96  | 7957.56  | 32.29 | -104.02 | 7957.56  | 0.97 |
| 18691.00 | 88.13 | 88.29 | 10802.59 | -979.84  | 8052.50  | 32.29 | -104.02 | 8052.50  | 3.36 |
| 18786.00 | 88.79 | 92.07 | 10805.14 | -980.14  | 8147.45  | 32.29 | -104.02 | 8147.45  | 4.04 |
| 18880.00 | 88.57 | 91.02 | 10807.31 | -982.67  | 8241.39  | 32.29 | -104.02 | 8241.39  | 1.14 |
| 18975.00 | 91.25 | 92.33 | 10807.46 | -985.45  | 8336.34  | 32.29 | -104.02 | 8336.34  | 3.14 |
| 19070.00 | 88.18 | 91.72 | 10807.93 | -988.80  | 8431.26  | 32.29 | -104.02 | 8431.26  | 3.29 |
| 19165.00 | 88.44 | 90.66 | 10810.73 | -990.78  | 8526.20  | 32.29 | -104.02 | 8526.20  | 1.15 |
| 19260.00 | 88.57 | 88.99 | 10813.21 | -990.49  | 8621.16  | 32.29 | -104.02 | 8621.16  | 1.76 |
| 19355.00 | 89.98 | 88.11 | 10814.41 | -988.08  | 8716.12  | 32.29 | -104.02 | 8716.12  | 1.75 |
| 19450.00 | 88.66 | 89.52 | 10815.54 | -986.12  | 8811.09  | 32.29 | -104.02 | 8811.09  | 2.03 |
| 19544.00 | 87.52 | 89.96 | 10818.67 | -985.69  | 8905.04  | 32.29 | -104.02 | 8905.04  | 1.30 |
| 19639.00 | 88.00 | 92.60 | 10822.39 | -987.81  | 8999.93  | 32.29 | -104.02 | 8999.93  | 2.82 |
| 19733.00 | 88.35 | 92.86 | 10825.38 | -992.29  | 9093.78  | 32.29 | -104.02 | 9093.78  | 0.46 |
| 19828.00 | 88.44 | 92.07 | 10828.04 | -996.37  | 9188.65  | 32.29 | -104.02 | 9188.65  | 0.84 |
| 19923.00 | 88.44 | 91.98 | 10830.63 | -999.73  | 9283.56  | 32.29 | -104.02 | 9283.56  | 0.09 |
| 20018.00 | 89.01 | 90.75 | 10832.74 | -1001.99 | 9378.50  | 32.29 | -104.02 | 9378.50  | 1.43 |
| 20113.00 | 90.59 | 90.31 | 10833.07 | -1002.87 | 9473.50  | 32.29 | -104.02 | 9473.50  | 1.73 |
| 20208.00 | 90.51 | 88.55 | 10832.16 | -1001.92 | 9568.48  | 32.29 | -104.02 | 9568.48  | 1.85 |
| 20303.00 | 89.54 | 87.41 | 10832.12 | -998.57  | 9663.42  | 32.29 | -104.02 | 9663.42  | 1.58 |
| 20398.00 | 86.90 | 86.01 | 10835.07 | -993.13  | 9758.21  | 32.29 | -104.02 | 9758.21  | 3.15 |
| 20492.00 | 88.44 | 89.17 | 10838.89 | -989.18  | 9852.03  | 32.29 | -104.02 | 9852.03  | 3.74 |
| 20587.00 | 88.88 | 88.64 | 10841.11 | -987.36  | 9946.99  | 32.29 | -104.02 | 9946.99  | 0.72 |
| 20681.00 | 88.31 | 87.68 | 10843.42 | -984.35  | 10040.91 | 32.29 | -104.02 | 10040.91 | 1.19 |
| 20760.00 | 88.70 | 87.68 | 10845.48 | -981.15  | 10119.82 | 32.29 | -104.02 | 10119.82 | 0.49 |
| 20834.00 | 88.70 | 87.68 | 10847.16 | -978.15  | 10193.74 | 32.29 | -104.02 | 10193.74 | 0.00 |

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.  
Vertical depths are relative to GE+24'. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 90.000° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001

Central meridian is -104.333°.

Grid Convergence at Surface is 0.152°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 20834.00ft.,  
the Bottom Hole Displacement is 10240.56ft., in the Direction of 90.000° (Grid).

| NAD 27<br>Northing (usf | NAD 27<br>Easting (usft) | NAD 83<br>Northing (usf | NAD 83<br>Easting (usft) |
|-------------------------|--------------------------|-------------------------|--------------------------|
| 471275.11               | 587964.21                | 471334.44               | 629147.13                |
| 471275.16               | 587964.22                | 471334.49               | 629147.14                |
| 471275.29               | 587963.90                | 471334.62               | 629146.82                |
| 471275.09               | 587963.15                | 471334.42               | 629146.07                |
| 471274.13               | 587962.42                | 471333.46               | 629145.34                |
| 471272.75               | 587962.01                | 471332.08               | 629144.93                |
| 471271.62               | 587961.69                | 471330.95               | 629144.61                |
| 471270.46               | 587961.14                | 471329.79               | 629144.06                |
| 471269.40               | 587960.37                | 471328.73               | 629143.29                |
| 471268.07               | 587959.60                | 471327.40               | 629142.52                |
| 471266.52               | 587959.03                | 471325.85               | 629141.95                |
| 471265.12               | 587958.48                | 471324.45               | 629141.40                |
| 471263.74               | 587958.06                | 471323.07               | 629140.98                |
| 471262.21               | 587957.85                | 471321.54               | 629140.77                |
| 471260.57               | 587957.51                | 471319.90               | 629140.43                |
| 471258.97               | 587956.17                | 471318.30               | 629139.09                |
| 471257.28               | 587953.51                | 471316.61               | 629136.43                |
| 471255.52               | 587950.66                | 471314.85               | 629133.58                |
| 471253.85               | 587947.61                | 471313.18               | 629130.53                |
| 471251.66               | 587944.16                | 471310.99               | 629127.08                |
| 471249.13               | 587941.50                | 471308.46               | 629124.42                |
| 471247.52               | 587938.59                | 471306.85               | 629121.51                |
| 471246.07               | 587934.55                | 471305.40               | 629117.47                |
| 471243.57               | 587930.65                | 471302.90               | 629113.57                |
| 471240.34               | 587927.19                | 471299.67               | 629110.11                |
| 471237.00               | 587923.96                | 471296.33               | 629106.88                |
| 471233.97               | 587920.92                | 471293.30               | 629103.84                |
| 471231.02               | 587918.06                | 471290.35               | 629100.98                |
| 471229.32               | 587916.75                | 471288.65               | 629099.67                |
| 471226.83               | 587915.28                | 471286.16               | 629098.20                |
| 471222.61               | 587913.52                | 471281.94               | 629096.44                |
| 471216.53               | 587912.30                | 471275.86               | 629095.22                |

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|-----------|-----------|-----------|-----------|
| 471208.11 | 587911.74 | 471267.44 | 629094.66 |
| 471197.73 | 587910.83 | 471257.06 | 629093.75 |
| 471185.38 | 587908.76 | 471244.71 | 629091.68 |
| 471170.12 | 587906.77 | 471229.45 | 629089.69 |
| 471152.37 | 587905.93 | 471211.70 | 629088.85 |
| 471132.72 | 587906.45 | 471192.05 | 629089.37 |
| 471111.47 | 587907.63 | 471170.80 | 629090.55 |
| 471089.49 | 587908.45 | 471148.82 | 629091.37 |
| 471067.58 | 587909.12 | 471126.91 | 629092.04 |
| 471045.64 | 587909.48 | 471104.97 | 629092.40 |
| 471024.32 | 587909.54 | 471083.65 | 629092.46 |
| 471003.27 | 587910.13 | 471062.60 | 629093.05 |
| 470981.32 | 587911.29 | 471040.65 | 629094.21 |
| 470959.05 | 587912.59 | 471018.38 | 629095.51 |
| 470937.42 | 587913.62 | 470996.75 | 629096.54 |
| 470915.30 | 587914.37 | 470974.63 | 629097.29 |
| 470892.57 | 587914.75 | 470951.90 | 629097.67 |
| 470869.84 | 587914.81 | 470929.17 | 629097.73 |
| 470847.17 | 587914.95 | 470906.50 | 629097.87 |
| 470825.15 | 587915.35 | 470884.48 | 629098.27 |
| 470804.73 | 587916.20 | 470864.06 | 629099.12 |
| 470784.93 | 587917.00 | 470844.26 | 629099.92 |
| 470765.43 | 587917.41 | 470824.76 | 629100.33 |
| 470747.22 | 587917.76 | 470806.55 | 629100.68 |
| 470729.21 | 587917.63 | 470788.54 | 629100.55 |
| 470710.10 | 587916.43 | 470769.43 | 629099.35 |
| 470691.47 | 587915.18 | 470750.80 | 629098.10 |
| 470672.74 | 587914.18 | 470732.07 | 629097.10 |
| 470653.25 | 587912.48 | 470712.58 | 629095.40 |
| 470634.65 | 587910.48 | 470693.98 | 629093.40 |
| 470617.28 | 587909.03 | 470676.61 | 629091.95 |
| 470601.01 | 587907.92 | 470660.34 | 629090.84 |
| 470585.72 | 587907.14 | 470645.05 | 629090.06 |
| 470571.27 | 587906.64 | 470630.60 | 629089.56 |
| 470557.56 | 587905.58 | 470616.89 | 629088.50 |
| 470544.76 | 587904.38 | 470604.09 | 629087.30 |
| 470533.69 | 587904.09 | 470593.02 | 629087.01 |
| 470524.86 | 587904.43 | 470584.19 | 629087.35 |
| 470518.15 | 587905.38 | 470577.48 | 629088.30 |
| 470513.41 | 587906.97 | 470572.74 | 629089.89 |
| 470508.89 | 587908.92 | 470568.22 | 629091.84 |
| 470503.99 | 587910.33 | 470563.32 | 629093.25 |
| 470500.42 | 587910.52 | 470559.75 | 629093.44 |
| 470498.44 | 587909.04 | 470557.77 | 629091.96 |
| 470497.23 | 587906.09 | 470556.56 | 629089.01 |
| 470495.61 | 587902.91 | 470554.94 | 629085.83 |
| 470493.17 | 587899.69 | 470552.50 | 629082.61 |

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|-----------|-----------|-----------|-----------|
| 470490.71 | 587896.44 | 470550.04 | 629079.36 |
| 470488.85 | 587893.40 | 470548.18 | 629076.32 |
| 470487.34 | 587890.20 | 470546.67 | 629073.12 |
| 470486.01 | 587886.85 | 470545.34 | 629069.77 |
| 470484.78 | 587883.00 | 470544.11 | 629065.92 |
| 470483.34 | 587878.56 | 470542.67 | 629061.48 |
| 470481.56 | 587876.00 | 470540.89 | 629058.92 |
| 470479.25 | 587875.81 | 470538.58 | 629058.73 |
| 470476.64 | 587875.70 | 470535.97 | 629058.62 |
| 470473.85 | 587875.21 | 470533.18 | 629058.13 |
| 470471.15 | 587874.81 | 470530.48 | 629057.73 |
| 470468.98 | 587874.14 | 470528.31 | 629057.06 |
| 470467.32 | 587873.15 | 470526.65 | 629056.07 |
| 470466.73 | 587871.88 | 470526.06 | 629054.80 |
| 470467.05 | 587869.97 | 470526.38 | 629052.89 |
| 470466.98 | 587867.53 | 470526.31 | 629050.45 |
| 470465.82 | 587865.90 | 470525.15 | 629048.82 |
| 470463.75 | 587865.59 | 470523.08 | 629048.51 |
| 470461.35 | 587865.71 | 470520.68 | 629048.63 |
| 470458.58 | 587865.69 | 470517.91 | 629048.61 |
| 470455.81 | 587865.73 | 470515.14 | 629048.65 |
| 470453.02 | 587865.61 | 470512.35 | 629048.53 |
| 470450.39 | 587865.01 | 470509.72 | 629047.93 |
| 470448.16 | 587864.04 | 470507.49 | 629046.96 |
| 470446.25 | 587863.24 | 470505.58 | 629046.16 |
| 470443.06 | 587862.56 | 470502.39 | 629045.48 |
| 470441.56 | 587863.14 | 470500.89 | 629046.06 |
| 470442.32 | 587865.15 | 470501.65 | 629048.07 |
| 470443.41 | 587867.04 | 470502.74 | 629049.96 |
| 470443.84 | 587874.59 | 470503.17 | 629057.51 |
| 470441.47 | 587897.21 | 470500.80 | 629080.13 |
| 470434.70 | 587937.47 | 470494.03 | 629120.39 |
| 470424.46 | 587992.64 | 470483.79 | 629175.56 |
| 470412.32 | 588062.09 | 470471.65 | 629245.01 |
| 470397.67 | 588145.31 | 470457.00 | 629328.23 |
| 470381.97 | 588235.49 | 470441.30 | 629418.41 |
| 470370.17 | 588328.95 | 470429.50 | 629511.87 |
| 470360.50 | 588423.38 | 470419.83 | 629606.30 |
| 470352.20 | 588517.88 | 470411.53 | 629700.80 |
| 470345.07 | 588612.55 | 470404.40 | 629795.47 |
| 470337.49 | 588707.20 | 470396.82 | 629890.12 |
| 470332.33 | 588801.66 | 470391.66 | 629984.58 |
| 470328.25 | 588896.32 | 470387.58 | 630079.24 |
| 470324.42 | 588990.24 | 470383.75 | 630173.16 |
| 470324.27 | 589085.22 | 470383.60 | 630268.14 |
| 470330.37 | 589179.99 | 470389.70 | 630362.91 |
| 470340.96 | 589274.25 | 470400.29 | 630457.17 |

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|-----------|-----------|-----------|-----------|
| 470350.14 | 589367.63 | 470409.47 | 630550.55 |
| 470353.49 | 589462.53 | 470412.82 | 630645.45 |
| 470354.19 | 589593.44 | 470413.52 | 630776.36 |
| 470355.64 | 589688.36 | 470414.97 | 630871.28 |
| 470354.90 | 589783.19 | 470414.23 | 630966.11 |
| 470351.70 | 589877.89 | 470411.03 | 631060.81 |
| 470347.91 | 589972.55 | 470407.24 | 631155.47 |
| 470342.74 | 590067.19 | 470402.07 | 631250.11 |
| 470334.68 | 590160.75 | 470394.01 | 631343.67 |
| 470321.96 | 590254.87 | 470381.29 | 631437.79 |
| 470306.12 | 590348.23 | 470365.45 | 631531.15 |
| 470290.93 | 590441.28 | 470350.26 | 631624.20 |
| 470279.20 | 590534.53 | 470338.53 | 631717.45 |
| 470271.64 | 590628.17 | 470330.97 | 631811.09 |
| 470266.50 | 590722.20 | 470325.83 | 631905.12 |
| 470263.77 | 590815.76 | 470323.10 | 631998.68 |
| 470264.86 | 590910.69 | 470324.19 | 632093.61 |
| 470270.10 | 591005.54 | 470329.43 | 632188.46 |
| 470275.18 | 591100.39 | 470334.51 | 632283.31 |
| 470275.32 | 591195.36 | 470334.65 | 632378.28 |
| 470272.99 | 591290.32 | 470332.32 | 632473.24 |
| 470271.90 | 591384.30 | 470331.23 | 632567.22 |
| 470274.44 | 591479.20 | 470333.77 | 632662.12 |
| 470281.55 | 591573.76 | 470340.88 | 632756.68 |
| 470287.80 | 591668.49 | 470347.13 | 632851.41 |
| 470291.08 | 591763.40 | 470350.41 | 632946.32 |
| 470293.48 | 591858.35 | 470352.81 | 633041.27 |
| 470295.44 | 591953.31 | 470354.77 | 633136.23 |
| 470295.66 | 592048.22 | 470354.99 | 633231.14 |
| 470293.06 | 592142.08 | 470352.39 | 633325.00 |
| 470290.87 | 592237.03 | 470350.20 | 633419.95 |
| 470290.78 | 592332.03 | 470350.11 | 633514.95 |
| 470292.75 | 592427.00 | 470352.08 | 633609.92 |
| 470295.29 | 592521.84 | 470354.62 | 633704.76 |
| 470296.29 | 592615.69 | 470355.62 | 633798.61 |
| 470296.79 | 592710.68 | 470356.12 | 633893.60 |
| 470295.19 | 592805.58 | 470354.52 | 633988.50 |
| 470287.05 | 592899.09 | 470346.38 | 634082.01 |
| 470272.40 | 592991.92 | 470331.73 | 634174.84 |
| 470253.86 | 593085.09 | 470313.19 | 634268.01 |
| 470235.32 | 593178.26 | 470294.65 | 634361.18 |
| 470220.88 | 593272.07 | 470280.21 | 634454.99 |
| 470210.75 | 593365.28 | 470270.08 | 634548.20 |
| 470204.63 | 593458.90 | 470263.96 | 634641.82 |
| 470203.15 | 593554.85 | 470262.48 | 634737.77 |
| 470205.91 | 593649.80 | 470265.24 | 634832.72 |
| 470212.16 | 593744.59 | 470271.49 | 634927.51 |



|           |           |           |           |
|-----------|-----------|-----------|-----------|
| 470218.34 | 593839.38 | 470277.67 | 635022.30 |
| 470223.81 | 593933.22 | 470283.14 | 635116.14 |
| 470229.63 | 594027.99 | 470288.96 | 635210.91 |
| 470232.82 | 594122.81 | 470292.15 | 635305.73 |
| 470234.13 | 594217.50 | 470293.46 | 635400.42 |
| 470235.80 | 594312.14 | 470295.13 | 635495.06 |
| 470237.39 | 594406.90 | 470296.72 | 635589.82 |
| 470235.57 | 594501.81 | 470294.90 | 635684.73 |
| 470230.90 | 594596.69 | 470290.23 | 635779.61 |
| 470228.78 | 594691.51 | 470288.11 | 635874.43 |
| 470228.70 | 594786.20 | 470288.03 | 635969.12 |
| 470230.80 | 594881.04 | 470290.13 | 636063.96 |
| 470235.60 | 594975.89 | 470294.93 | 636158.81 |
| 470241.85 | 595070.68 | 470301.18 | 636253.60 |
| 470247.96 | 595165.48 | 470307.29 | 636348.40 |
| 470252.86 | 595259.34 | 470312.19 | 636442.26 |
| 470258.46 | 595354.16 | 470317.79 | 636537.08 |
| 470264.13 | 595448.98 | 470323.46 | 636631.90 |
| 470270.25 | 595543.76 | 470329.58 | 636726.68 |
| 470278.96 | 595638.24 | 470338.29 | 636821.16 |
| 470285.86 | 595732.89 | 470345.19 | 636915.81 |
| 470289.06 | 595827.84 | 470348.39 | 637010.76 |
| 470292.15 | 595921.77 | 470351.48 | 637104.69 |
| 470295.27 | 596016.71 | 470354.60 | 637199.63 |
| 470294.97 | 596111.66 | 470354.30 | 637294.58 |
| 470292.44 | 596205.60 | 470351.77 | 637388.52 |
| 470289.66 | 596300.55 | 470348.99 | 637483.47 |
| 470286.31 | 596395.47 | 470345.64 | 637578.39 |
| 470284.33 | 596490.41 | 470343.66 | 637673.33 |
| 470284.62 | 596585.37 | 470343.95 | 637768.29 |
| 470287.03 | 596680.33 | 470346.36 | 637863.25 |
| 470288.99 | 596775.30 | 470348.32 | 637958.22 |
| 470289.42 | 596869.25 | 470348.75 | 638052.17 |
| 470287.30 | 596964.14 | 470346.63 | 638147.06 |
| 470282.82 | 597057.99 | 470342.15 | 638240.91 |
| 470278.74 | 597152.86 | 470338.07 | 638335.78 |
| 470275.38 | 597247.77 | 470334.71 | 638430.69 |
| 470273.12 | 597342.71 | 470332.45 | 638525.63 |
| 470272.24 | 597437.71 | 470331.57 | 638620.63 |
| 470273.19 | 597532.69 | 470332.52 | 638715.61 |
| 470276.54 | 597627.63 | 470335.87 | 638810.55 |
| 470281.98 | 597722.42 | 470341.31 | 638905.34 |
| 470285.93 | 597816.24 | 470345.26 | 638999.16 |
| 470287.75 | 597911.20 | 470347.08 | 639094.12 |
| 470290.76 | 598005.12 | 470350.09 | 639188.04 |
| 470293.96 | 598084.03 | 470353.29 | 639266.95 |
| 470296.96 | 598157.95 | 470356.29 | 639340.87 |



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 144988

CONDITIONS

|                                                                          |                                                      |
|--------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>KAISER-FRANCIS OIL CO<br>PO Box 21468<br>Tulsa, OK 74121146 | OGRID:<br>12361                                      |
|                                                                          | Action Number:<br>144988                             |
|                                                                          | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |                                                 |                |
|------------|-------------------------------------------------|----------------|
| Created By | Condition                                       | Condition Date |
| kpickford  | Adhere to previous NMOCD Conditions of Approval | 9/26/2022      |