

**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**

Form C-101

August 1, 2011

Permit 286737

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                            |                                          |                               |
|--------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>KAISER-FRANCIS OIL CO<br>P.O. Box 21468<br>Tulsa, OK 74121 |                                          | 2. OGRID Number<br>12361      |
|                                                                                            |                                          | 3. API Number<br>30-025-47736 |
| 4. Property Code<br>316706                                                                 | 5. Property Name<br>BELL LAKE UNIT SOUTH | 6. Well No.<br>327H           |

**7. Surface Location**

|               |              |                 |              |              |                   |               |                   |               |               |
|---------------|--------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>J | Section<br>6 | Township<br>24S | Range<br>34E | Lot Idn<br>J | Feet From<br>2121 | N/S Line<br>S | Feet From<br>2464 | E/W Line<br>E | County<br>Lea |
|---------------|--------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|---------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                  |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>B | Section<br>31 | Township<br>23S | Range<br>34E | Lot Idn<br>B | Feet From<br>100 | N/S Line<br>N | Feet From<br>2472 | E/W Line<br>E | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|

**9. Pool Information**

|                              |       |
|------------------------------|-------|
| BELL LAKE;BONE SPRING, SOUTH | 98264 |
|------------------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3606 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>19598 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>9/30/2020         |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 1400          | 260             | 0             |
| Int1 | 14.75     | 10.75       | 45.5             | 5300          | 590             | 0             |
| Int2 | 9.75      | 7.625       | 29.7             | 10550         | 1600            | 0             |
| Prod | 6.75      | 5.5         | 23               | 19598         | 870             | 10000         |

**Casing/Cement Program: Additional Comments**

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

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 10000            | 5000          | Cameron      |

|                                                                                                                                                                                                                                                                                                    |                           |                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|--|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. |                           | <b>OIL CONSERVATION DIVISION</b> |  |
| Signature:                                                                                                                                                                                                                                                                                         |                           |                                  |  |
| Printed Name: Electronically filed by Kristin L Gray                                                                                                                                                                                                                                               | Approved By: Paul F Kautz |                                  |  |
| Title:                                                                                                                                                                                                                                                                                             | Title: Geologist          |                                  |  |
| Email Address: kristing@kfoc.net                                                                                                                                                                                                                                                                   | Approved Date: 9/25/2020  | Expiration Date: 9/25/2022       |  |
| Date: 9/17/2020                                                                                                                                                                                                                                                                                    | Phone: 918-491-4209       | Conditions of Approval Attached  |  |

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## District IV

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Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                      |                                                      |                                                         |
|--------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| <sup>1</sup> API Number              | <sup>2</sup> Pool Code<br>98264                      | <sup>3</sup> Pool Name<br>Bell Lake; Bone Spring, South |
| <sup>4</sup> Property Code<br>316706 | <sup>5</sup> Property Name<br>BELL LAKE UNIT SOUTH   | <sup>6</sup> Well Number<br>327H                        |
| <sup>7</sup> OGRID No.<br>12361      | <sup>8</sup> Operator Name<br>KAISER-FRANCIS OIL CO. | <sup>9</sup> Elevation<br>3606.0                        |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| J             | 6       | 24 S     | 34 E  | J       | 2121          | SOUTH            | 2464          | EAST           | LEA    |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| B             | 31      | 23 S     | 34 E  | B       | 100           | NORTH            | 2472          | EAST           | LEA    |

|                                         |                               |                                       |                              |
|-----------------------------------------|-------------------------------|---------------------------------------|------------------------------|
| <sup>12</sup> Dedicated Acres<br>472.66 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code<br>- | <sup>15</sup> Order No.<br>- |
|-----------------------------------------|-------------------------------|---------------------------------------|------------------------------|

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>NW CORNER SEC. 31<br/>LAT. = 32.2683677°N<br/>LONG. = 103.5175251°W<br/>NMSP EAST (FT)<br/>N = 462323.66<br/>E = 793492.63</p> <p>W/4 CORNER SEC. 31<br/>LAT. = 32.2610966°N<br/>LONG. = 103.5175255°W<br/>NMSP EAST (FT)<br/>N = 459678.42<br/>E = 793512.61</p> <p>NW CORNER SEC. 6<br/>LAT. = 32.2538418°N<br/>LONG. = 103.5175255°W<br/>NMSP EAST (FT)<br/>N = 457039.15<br/>E = 793532.70</p> <p>FIRST TAKE POINT<br/>2540' FNL, 2472' FEL<br/>LAT. = 32.2468574°N<br/>LONG. = 103.5085413°W<br/>NMSP EAST (FT)<br/>N = 454519.45<br/>E = 796329.63</p> <p>SW CORNER SEC. 6<br/>LAT. = 32.2393361°N<br/>LONG. = 103.5175208°W<br/>NMSP EAST (FT)<br/>N = 451762.97<br/>E = 793574.23</p>       |  | <p>N89°41'07"E 2594.31 FT<br/>N/4 CORNER SEC. 31<br/>LAT. = 32.2683524°N<br/>LONG. = 103.5091338°W<br/>NMSP EAST (FT)<br/>N = 462337.91<br/>E = 796086.39</p> <p>BOTTOM OF HOLE<br/>LAT. = 32.2680773°N<br/>LONG. = 103.5085823°W<br/>NMSP EAST (FT)<br/>N = 462239.15<br/>E = 796257.65</p> <p>N/4 CORNER SEC. 6<br/>LAT. = 32.2538378°N<br/>LONG. = 103.5091094°W<br/>NMSP EAST (FT)<br/>N = 457067.57<br/>E = 796154.50</p> <p>S/4 CORNER SEC. 6<br/>LAT. = 32.2393388°N<br/>LONG. = 103.5090568°W<br/>NMSP EAST (FT)<br/>N = 451782.97<br/>E = 796191.23</p> |  | <p>N89°35'55"E 2642.51 FT<br/>NE CORNER SEC. 31<br/>LAT. = 32.2683472°N<br/>LONG. = 103.5005866°W<br/>NMSP EAST (FT)<br/>N = 462356.42<br/>E = 798728.32</p> <p>E/4 CORNER SEC. 31<br/>LAT. = 32.2610941°N<br/>LONG. = 103.5005861°W<br/>NMSP EAST (FT)<br/>N = 459717.74<br/>E = 798748.94</p> <p>NE CORNER SEC. 6<br/>LAT. = 32.2538360°N<br/>LONG. = 103.5005766°W<br/>NMSP EAST (FT)<br/>N = 457077.27<br/>E = 798772.36</p> <p>E/4 CORNER SEC. 6<br/>LAT. = 32.2466023°N<br/>LONG. = 103.5005464°W<br/>NMSP EAST (FT)<br/>N = 454445.73<br/>E = 798802.12</p> <p>SE CORNER SEC. 6<br/>LAT. = 32.2393444°N<br/>LONG. = 103.5005422°W<br/>NMSP EAST (FT)<br/>N = 451805.34<br/>E = 798829.47</p> |  |
| <p><b>17 OPERATOR CERTIFICATION</b><br/>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>Signature: <i>Charlotte Van Valkenburg</i> Date: 9/17/2020<br/>Printed Name: Charlotte Van Valkenburg<br/>E-mail Address: Charlotv@kfoc.net</p> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| <p><b>18 SURVEYOR CERTIFICATION</b><br/>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>AUGUST 24, 2020<br/>Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <i>William F. Jaramila</i><br/>Certificate Number: 12797<br/>Professional Surveyor No. 6957</p>                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |

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

## GAS CAPTURE PLAN

Date: 9/25/2020

☒ Original

Operator & OGRID No.: [12361] KAISER-FRANCIS OIL CO

☐ Amended - Reason for  
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                  | API          | Well Location (ULSTR) | Footages    | Expected MCF/D | Flared or Vented | Comments |
|----------------------------|--------------|-----------------------|-------------|----------------|------------------|----------|
| BELL LAKE UNIT SOUTH #327H | 30-025-47736 | J-6-24S-34E           | 2121S 2464E | 2000           | None             |          |

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC High/Low Pressure gathering system located in Lea County, New Mexico. It will require 11000' of pipeline to connect the facility to High/Low Pressure gathering system. KAISER-FRANCIS OIL CO provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, KAISER-FRANCIS OIL CO and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 36, Twn. 19S, Rng. 36E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is KAISER-FRANCIS OIL CO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 286737

PERMIT COMMENTS

|                                                                                                  |  |                                     |
|--------------------------------------------------------------------------------------------------|--|-------------------------------------|
| Operator Name and Address:<br>KAISER-FRANCIS OIL CO [12361]<br>P.O. Box 21468<br>Tulsa, OK 74121 |  | API Number:<br>30-025-47736         |
|                                                                                                  |  | Well:<br>BELL LAKE UNIT SOUTH #327H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

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Form APD Conditions

Permit 286737

**PERMIT CONDITIONS OF APPROVAL**

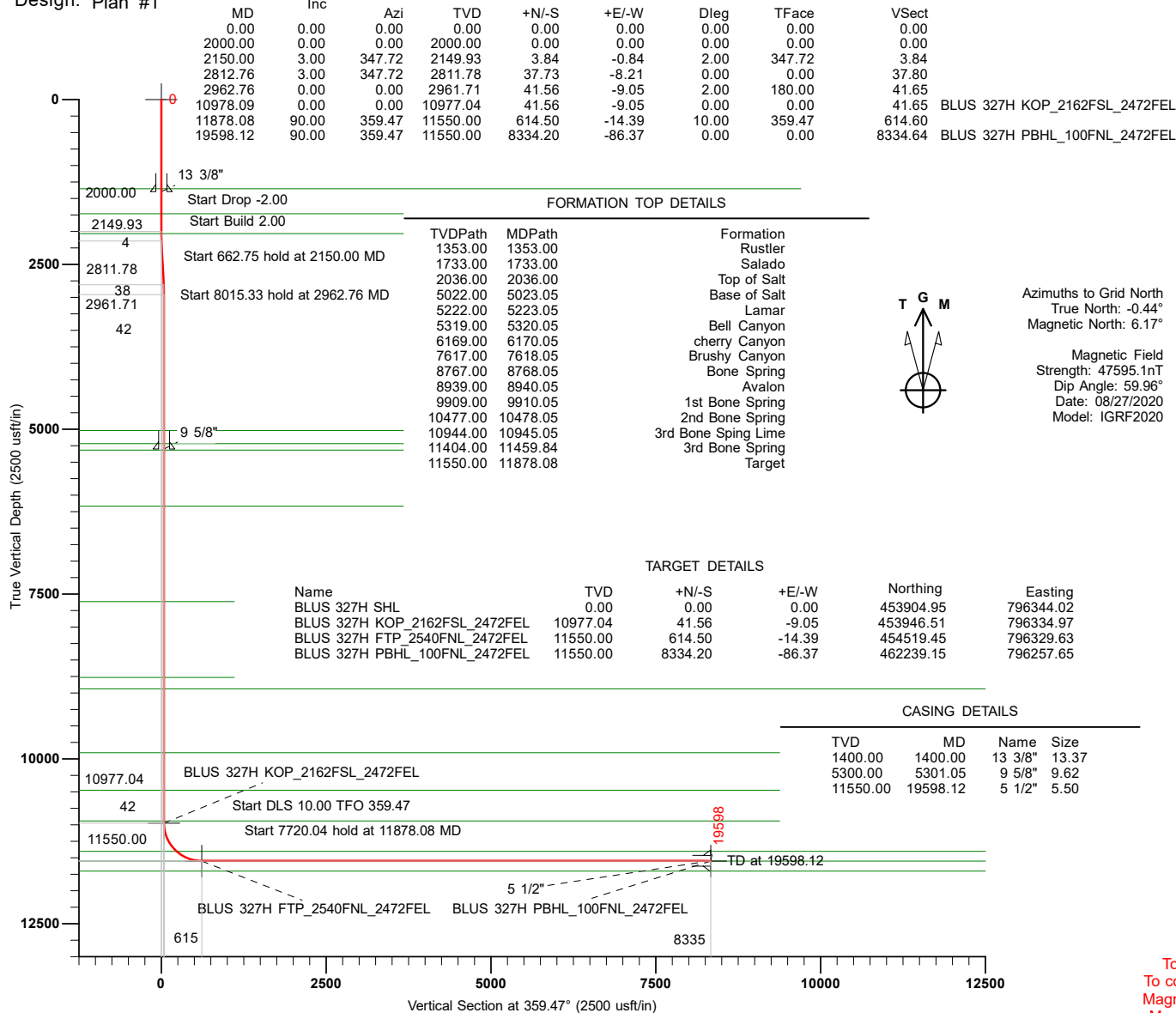
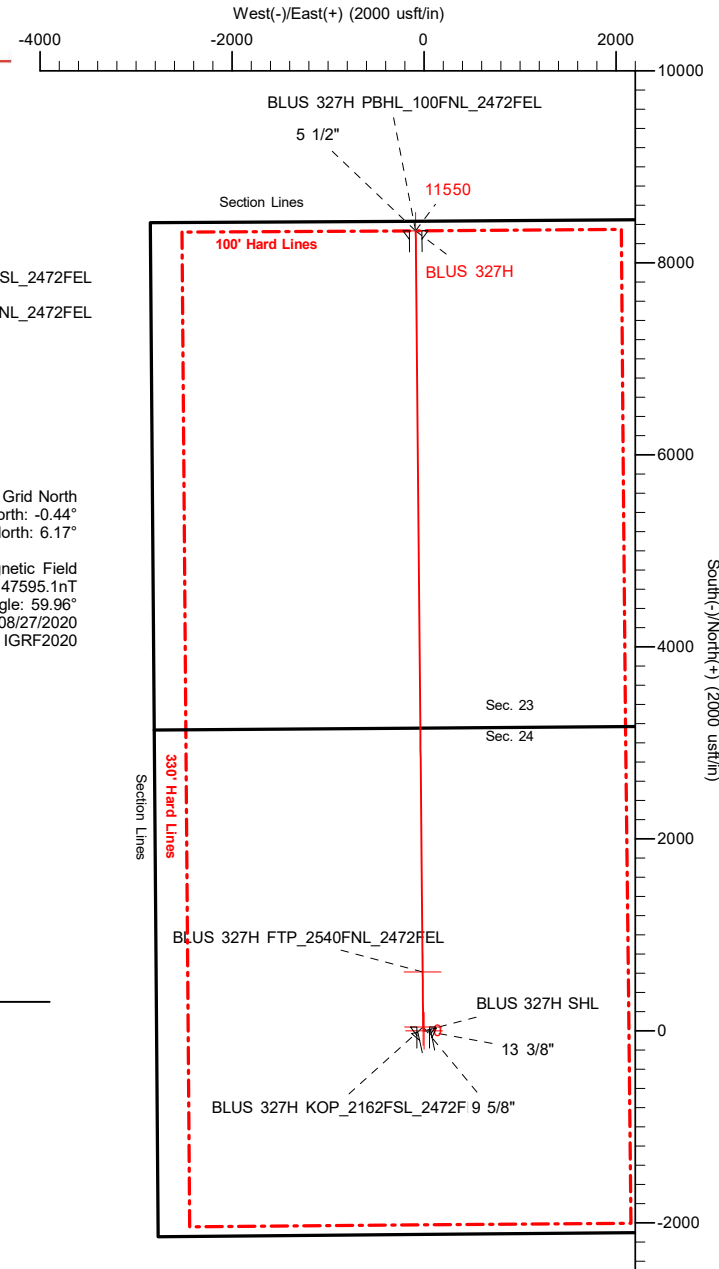
|                                                                                                  |                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------|
| Operator Name and Address:<br>KAISER-FRANCIS OIL CO [12361]<br>P.O. Box 21468<br>Tulsa, OK 74121 | API Number:<br>30-025-47736         |
|                                                                                                  | Well:<br>BELL LAKE UNIT SOUTH #327H |

| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pkautz          | Will require a directional survey with the C-104                                                                                                                                                                                                                                                                                                                                                       |
| pkautz          | 1) SURFACE & INTERMEDIATE1 CASING - Cement must circulate to surface -- 2) INTERMEDIATE2 CASING - Cement must tie back into intermediate1 casing -- 3) PRODUCTION CASING - Cement must tie back into intermediate2 casing --                                                                                                                                                                           |
| pkautz          | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement                                                                                                                                                                                                                                                                                           |
| pkautz          | Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water                                                                                                                                                                                                                                                                                                   |
| pkautz          | 1)- The Operator is to notify NMOCDD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104                                                   |
| pkautz          | It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required. |
| pkautz          | Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.                                      |

# KAISER-FRANCIS OIL COMPANY

Project: Lea County, NM (NMEZ) NAD83 Grid 3605.9 @ 3605.90usft (GLOnly)  
 Site: Bell Lake Unit South 227H,228H,327H,428H North American Datum 1983  
 Well: BLUS 327H  
 Wellbore: Lateral  
 Design: Plan #1

Kaiser-Francis Oil Company



To convert a Magnetic Direction to a Grid Direction, Add 6.17°  
 To convert a Magnetic Direction to a True Direction, Add 6.61° East  
 Magnetic North is 6.17° East of Grid North (Magnetic Convergence)  
 Magnetic North is 6.61° East of True North (Magnetic Declination)

Plan: Plan #1 (BLUS 327H/Lateral)  
 Created By: Mekka Williams  
 13:06, August 27 2020

**SB DIRECTIONAL SERVICES**  
 5135 SW 29TH ST  
 OKLAHOMA CITY, OK 73179





Kaiser-Francis Oil Company

# KAISER-FRANCIS OIL COMPANY

Lea County, NM (NMEZ) NAD83 Grid

Bell Lake Unit South 227H,228H,327H,428H

BLUS 327H - Slot 327H

Lateral

Plan: Plan #1

## Survey Report Landscape

27 August, 2020





|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Well:</b>     | BLUS 327H                                | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | Lateral                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | Plan #1                                  | <b>Database:</b>                    | SBDIR_EDM                     |

|             |                           |                                  |                |
|-------------|---------------------------|----------------------------------|----------------|
| Project     |                           | Lea County, NM (NMEZ) NAD83 Grid |                |
| Map System: | US State Plane 1983       | System Datum:                    | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |                                  |                |
| Map Zone:   | New Mexico Eastern Zone   |                                  |                |

|                       |     |                                          |      |              |      |            |               |                   |      |   |
|-----------------------|-----|------------------------------------------|------|--------------|------|------------|---------------|-------------------|------|---|
| Site                  |     | Bell Lake Unit South 227H,228H,327H,428H |      |              |      |            |               |                   |      |   |
| Site Position:        |     | Northing:                                |      | 453,944.96   | usft | Latitude:  | 32.2452781°N  |                   |      |   |
| From:                 | Map | Easting:                                 |      | 796,343.61   | usft | Longitude: | 103.5085103°W |                   |      |   |
| Position Uncertainty: |     | 0.00                                     | usft | Slot Radius: |      | 13.20      | in            | Grid Convergence: | 0.44 | ° |

| Well                 |       | BLUS 327H - Slot 327H |                     |                 |               |               |
|----------------------|-------|-----------------------|---------------------|-----------------|---------------|---------------|
| Well Position        | +N/-S | 0.00 usft             | Northing:           | 453,904.95 usft | Latitude:     | 32.2451681°N  |
|                      | +E/-W | 0.00 usft             | Easting:            | 796,344.02 usft | Longitude:    | 103.5085100°W |
| Position Uncertainty |       | 0.00 usft             | Wellhead Elevation: | usft            | Ground Level: | 3,605.90 usft |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Lateral    |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2020   | 08/27/20    | 6.61            | 59.96         | 47,595.09429323     |

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design            | Plan #1                    |                 |                 |                  |
| Audit Notes:      |                            |                 |                 |                  |
| Version:          | Phase:                     | PROTOTYPE       | Tie On Depth:   | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|                   | 0.00                       | 0.00            | 0.00            | 359.47           |

| Survey Tool Program |              | Date              | 08/27/20  |             |
|---------------------|--------------|-------------------|-----------|-------------|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name | Description |
| 0.00                | 19,597.32    | Plan #1 (Lateral) |           |             |





# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft)  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|---------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 0.00          | 0.00       | 0.00                 | 0.00          | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| BLUS 327H SHL |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 100.00        | 0.00       | 0.00                 | 100.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 200.00        | 0.00       | 0.00                 | 200.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 300.00        | 0.00       | 0.00                 | 300.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 400.00        | 0.00       | 0.00                 | 400.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 500.00        | 0.00       | 0.00                 | 500.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 600.00        | 0.00       | 0.00                 | 600.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 700.00        | 0.00       | 0.00                 | 700.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 800.00        | 0.00       | 0.00                 | 800.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 900.00        | 0.00       | 0.00                 | 900.00        | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,000.00      | 0.00       | 0.00                 | 1,000.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,100.00      | 0.00       | 0.00                 | 1,100.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,200.00      | 0.00       | 0.00                 | 1,200.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,300.00      | 0.00       | 0.00                 | 1,300.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,353.00      | 0.00       | 0.00                 | 1,353.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| Rustler       |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 1,400.00      | 0.00       | 0.00                 | 1,400.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 13 3/8"       |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 1,500.00      | 0.00       | 0.00                 | 1,500.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,600.00      | 0.00       | 0.00                 | 1,600.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,700.00      | 0.00       | 0.00                 | 1,700.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,733.00      | 0.00       | 0.00                 | 1,733.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| Salado        |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 1,800.00      | 0.00       | 0.00                 | 1,800.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 1,900.00      | 0.00       | 0.00                 | 1,900.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |
| 2,000.00      | 0.00       | 0.00                 | 2,000.00      | 0.00          | 0.00          | 0.00                       | 0.00                   | 0.00              | 453,904.95         | 796,344.02        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 2,036.00     | 0.72       | 347.72               | 2,036.00      | 0.22          | -0.05         | 0.23                       | 347.72                 | 2.00              | 453,905.17         | 796,343.97        |
| Top of Salt  |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 2,100.00     | 2.00       | 347.72               | 2,099.98      | 1.71          | -0.37         | 1.75                       | 347.72                 | 2.00              | 453,906.66         | 796,343.65        |
| 2,150.00     | 3.00       | 347.72               | 2,149.93      | 3.84          | -0.84         | 3.93                       | 347.72                 | 2.00              | 453,908.79         | 796,343.18        |
| 2,200.00     | 3.00       | 347.72               | 2,199.86      | 6.39          | -1.39         | 6.54                       | 347.72                 | 0.00              | 453,911.34         | 796,342.63        |
| 2,300.00     | 3.00       | 347.72               | 2,299.73      | 11.51         | -2.50         | 11.78                      | 347.72                 | 0.00              | 453,916.46         | 796,341.52        |
| 2,400.00     | 3.00       | 347.72               | 2,399.59      | 16.62         | -3.62         | 17.01                      | 347.72                 | 0.00              | 453,921.57         | 796,340.40        |
| 2,500.00     | 3.00       | 347.72               | 2,499.45      | 21.73         | -4.73         | 22.24                      | 347.72                 | 0.00              | 453,926.68         | 796,339.29        |
| 2,600.00     | 3.00       | 347.72               | 2,599.31      | 26.85         | -5.84         | 27.48                      | 347.72                 | 0.00              | 453,931.80         | 796,338.18        |
| 2,700.00     | 3.00       | 347.72               | 2,699.18      | 31.96         | -6.96         | 32.71                      | 347.72                 | 0.00              | 453,936.91         | 796,337.06        |
| 2,800.00     | 3.00       | 347.72               | 2,799.04      | 37.08         | -8.07         | 37.94                      | 347.72                 | 0.00              | 453,942.03         | 796,335.95        |
| 2,812.76     | 3.00       | 347.72               | 2,811.78      | 37.73         | -8.21         | 38.61                      | 347.72                 | 0.00              | 453,942.68         | 796,335.81        |
| 2,900.00     | 1.26       | 347.72               | 2,898.96      | 40.89         | -8.90         | 41.85                      | 347.72                 | 2.00              | 453,945.84         | 796,335.12        |
| 2,962.76     | 0.00       | 0.00                 | 2,961.71      | 41.56         | -9.05         | 42.54                      | 347.72                 | 2.00              | 453,946.51         | 796,334.97        |
| 3,000.00     | 0.00       | 0.00                 | 2,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,100.00     | 0.00       | 0.00                 | 3,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,200.00     | 0.00       | 0.00                 | 3,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,300.00     | 0.00       | 0.00                 | 3,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,400.00     | 0.00       | 0.00                 | 3,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,500.00     | 0.00       | 0.00                 | 3,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,600.00     | 0.00       | 0.00                 | 3,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,700.00     | 0.00       | 0.00                 | 3,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,800.00     | 0.00       | 0.00                 | 3,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 3,900.00     | 0.00       | 0.00                 | 3,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,000.00     | 0.00       | 0.00                 | 3,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,100.00     | 0.00       | 0.00                 | 4,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,200.00     | 0.00       | 0.00                 | 4,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 4,300.00     | 0.00       | 0.00                 | 4,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,400.00     | 0.00       | 0.00                 | 4,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,500.00     | 0.00       | 0.00                 | 4,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,600.00     | 0.00       | 0.00                 | 4,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,700.00     | 0.00       | 0.00                 | 4,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,800.00     | 0.00       | 0.00                 | 4,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 4,900.00     | 0.00       | 0.00                 | 4,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,000.00     | 0.00       | 0.00                 | 4,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,023.05     | 0.00       | 0.00                 | 5,022.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Base of Salt |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 5,100.00     | 0.00       | 0.00                 | 5,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,200.00     | 0.00       | 0.00                 | 5,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,223.05     | 0.00       | 0.00                 | 5,222.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Lamar        |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 5,300.00     | 0.00       | 0.00                 | 5,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,301.05     | 0.00       | 0.00                 | 5,300.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9 5/8"       |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 5,320.05     | 0.00       | 0.00                 | 5,319.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Bell Canyon  |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 5,400.00     | 0.00       | 0.00                 | 5,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,500.00     | 0.00       | 0.00                 | 5,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,600.00     | 0.00       | 0.00                 | 5,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,700.00     | 0.00       | 0.00                 | 5,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,800.00     | 0.00       | 0.00                 | 5,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 5,900.00     | 0.00       | 0.00                 | 5,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,000.00     | 0.00       | 0.00                 | 5,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,100.00     | 0.00       | 0.00                 | 6,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft)  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|---------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 6,170.05      | 0.00       | 0.00                 | 6,169.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| cherry Canyon |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 6,200.00      | 0.00       | 0.00                 | 6,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,300.00      | 0.00       | 0.00                 | 6,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,400.00      | 0.00       | 0.00                 | 6,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,500.00      | 0.00       | 0.00                 | 6,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,600.00      | 0.00       | 0.00                 | 6,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,700.00      | 0.00       | 0.00                 | 6,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,800.00      | 0.00       | 0.00                 | 6,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 6,900.00      | 0.00       | 0.00                 | 6,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,000.00      | 0.00       | 0.00                 | 6,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,100.00      | 0.00       | 0.00                 | 7,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,200.00      | 0.00       | 0.00                 | 7,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,300.00      | 0.00       | 0.00                 | 7,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,400.00      | 0.00       | 0.00                 | 7,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,500.00      | 0.00       | 0.00                 | 7,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,600.00      | 0.00       | 0.00                 | 7,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,618.05      | 0.00       | 0.00                 | 7,617.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Brushy Canyon |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 7,700.00      | 0.00       | 0.00                 | 7,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,800.00      | 0.00       | 0.00                 | 7,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 7,900.00      | 0.00       | 0.00                 | 7,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,000.00      | 0.00       | 0.00                 | 7,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,100.00      | 0.00       | 0.00                 | 8,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,200.00      | 0.00       | 0.00                 | 8,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,300.00      | 0.00       | 0.00                 | 8,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,400.00      | 0.00       | 0.00                 | 8,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft)    | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|-----------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 8,500.00        | 0.00       | 0.00                 | 8,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,600.00        | 0.00       | 0.00                 | 8,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,700.00        | 0.00       | 0.00                 | 8,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,768.05        | 0.00       | 0.00                 | 8,767.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Bone Spring     |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 8,800.00        | 0.00       | 0.00                 | 8,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,900.00        | 0.00       | 0.00                 | 8,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 8,940.05        | 0.00       | 0.00                 | 8,939.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| Avalon          |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 9,000.00        | 0.00       | 0.00                 | 8,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,100.00        | 0.00       | 0.00                 | 9,098.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,200.00        | 0.00       | 0.00                 | 9,198.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,300.00        | 0.00       | 0.00                 | 9,298.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,400.00        | 0.00       | 0.00                 | 9,398.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,500.00        | 0.00       | 0.00                 | 9,498.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,600.00        | 0.00       | 0.00                 | 9,598.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,700.00        | 0.00       | 0.00                 | 9,698.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,800.00        | 0.00       | 0.00                 | 9,798.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,900.00        | 0.00       | 0.00                 | 9,898.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 9,910.05        | 0.00       | 0.00                 | 9,909.00      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 1st Bone Spring |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 10,000.00       | 0.00       | 0.00                 | 9,998.95      | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,100.00       | 0.00       | 0.00                 | 10,098.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,200.00       | 0.00       | 0.00                 | 10,198.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,300.00       | 0.00       | 0.00                 | 10,298.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,400.00       | 0.00       | 0.00                 | 10,398.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft)                         | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 10,478.05                            | 0.00       | 0.00                 | 10,477.00     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| <b>2nd Bone Spring</b>               |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 10,500.00                            | 0.00       | 0.00                 | 10,498.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,600.00                            | 0.00       | 0.00                 | 10,598.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,700.00                            | 0.00       | 0.00                 | 10,698.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,800.00                            | 0.00       | 0.00                 | 10,798.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,900.00                            | 0.00       | 0.00                 | 10,898.95     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| 10,945.05                            | 0.00       | 0.00                 | 10,944.00     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| <b>3rd Bone Sping Lime</b>           |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 10,978.09                            | 0.00       | 0.00                 | 10,977.04     | 41.56         | -9.05         | 42.54                      | 347.72                 | 0.00              | 453,946.51         | 796,334.97        |
| <b>BLUS 327H KOP_2162FSL_2472FEL</b> |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 11,000.00                            | 2.19       | 359.47               | 10,998.95     | 41.98         | -9.05         | 42.95                      | 347.83                 | 10.00             | 453,946.93         | 796,334.97        |
| 11,050.00                            | 7.19       | 359.47               | 11,048.77     | 46.07         | -9.09         | 46.96                      | 348.84                 | 10.00             | 453,951.02         | 796,334.93        |
| 11,100.00                            | 12.19      | 359.47               | 11,098.04     | 54.49         | -9.17         | 55.25                      | 350.45                 | 10.00             | 453,959.44         | 796,334.85        |
| 11,150.00                            | 17.19      | 359.47               | 11,146.39     | 67.16         | -9.29         | 67.80                      | 352.13                 | 10.00             | 453,972.11         | 796,334.73        |
| 11,200.00                            | 22.19      | 359.47               | 11,193.45     | 84.00         | -9.44         | 84.53                      | 353.59                 | 10.00             | 453,988.95         | 796,334.58        |
| 11,250.00                            | 27.19      | 359.47               | 11,238.86     | 104.88        | -9.64         | 105.32                     | 354.75                 | 10.00             | 454,009.83         | 796,334.38        |
| 11,300.00                            | 32.19      | 359.47               | 11,282.28     | 129.64        | -9.87         | 130.02                     | 355.65                 | 10.00             | 454,034.59         | 796,334.15        |
| 11,350.00                            | 37.19      | 359.47               | 11,323.38     | 158.09        | -10.13        | 158.41                     | 356.33                 | 10.00             | 454,063.04         | 796,333.89        |
| 11,400.00                            | 42.19      | 359.47               | 11,361.84     | 190.01        | -10.43        | 190.30                     | 356.86                 | 10.00             | 454,094.96         | 796,333.59        |
| 11,450.00                            | 47.19      | 359.47               | 11,397.38     | 225.16        | -10.76        | 225.42                     | 357.26                 | 10.00             | 454,130.11         | 796,333.26        |
| 11,459.84                            | 48.18      | 359.47               | 11,404.00     | 232.43        | -10.83        | 232.69                     | 357.33                 | 10.00             | 454,137.38         | 796,333.19        |
| <b>3rd Bone Spring</b>               |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 11,500.00                            | 52.19      | 359.47               | 11,429.71     | 263.28        | -11.12        | 263.51                     | 357.58                 | 10.00             | 454,168.23         | 796,332.90        |
| 11,550.00                            | 57.19      | 359.47               | 11,458.60     | 304.06        | -11.50        | 304.28                     | 357.83                 | 10.00             | 454,209.01         | 796,332.52        |
| 11,600.00                            | 62.19      | 359.47               | 11,483.83     | 347.21        | -11.90        | 347.42                     | 358.04                 | 10.00             | 454,252.16         | 796,332.12        |
| 11,650.00                            | 67.19      | 359.47               | 11,505.20     | 392.40        | -12.32        | 392.59                     | 358.20                 | 10.00             | 454,297.35         | 796,331.70        |
| 11,700.00                            | 72.19      | 359.47               | 11,522.54     | 439.27        | -12.76        | 439.46                     | 358.34                 | 10.00             | 454,344.22         | 796,331.26        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft)                           | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|----------------------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 11,750.00                              | 77.19      | 359.47               | 11,535.74     | 487.48        | -13.21        | 487.66                     | 358.45                 | 10.00             | 454,392.43         | 796,330.81        |
| 11,800.00                              | 82.19      | 359.47               | 11,544.68     | 536.66        | -13.66        | 536.83                     | 358.54                 | 10.00             | 454,441.61         | 796,330.36        |
| 11,850.00                              | 87.19      | 359.47               | 11,549.31     | 586.43        | -14.13        | 586.60                     | 358.62                 | 10.00             | 454,491.38         | 796,329.89        |
| 11,878.09                              | 90.00      | 359.47               | 11,550.00     | 614.50        | -14.39        | 614.67                     | 358.66                 | 10.00             | 454,519.45         | 796,329.63        |
| Target - BLUS 327H FTP_2540FNL_2472FEL |            |                      |               |               |               |                            |                        |                   |                    |                   |
| 11,900.00                              | 90.00      | 359.47               | 11,550.00     | 636.41        | -14.59        | 636.58                     | 358.69                 | 0.00              | 454,541.36         | 796,329.43        |
| 12,000.00                              | 90.00      | 359.47               | 11,550.00     | 736.41        | -15.53        | 736.57                     | 358.79                 | 0.00              | 454,641.36         | 796,328.49        |
| 12,100.00                              | 90.00      | 359.47               | 11,550.00     | 836.40        | -16.46        | 836.57                     | 358.87                 | 0.00              | 454,741.35         | 796,327.56        |
| 12,200.00                              | 90.00      | 359.47               | 11,550.00     | 936.40        | -17.39        | 936.56                     | 358.94                 | 0.00              | 454,841.35         | 796,326.63        |
| 12,300.00                              | 90.00      | 359.47               | 11,550.00     | 1,036.39      | -18.32        | 1,036.56                   | 358.99                 | 0.00              | 454,941.34         | 796,325.70        |
| 12,400.00                              | 90.00      | 359.47               | 11,550.00     | 1,136.39      | -19.26        | 1,136.55                   | 359.03                 | 0.00              | 455,041.34         | 796,324.76        |
| 12,500.00                              | 90.00      | 359.47               | 11,550.00     | 1,236.39      | -20.19        | 1,236.55                   | 359.06                 | 0.00              | 455,141.34         | 796,323.83        |
| 12,600.00                              | 90.00      | 359.47               | 11,550.00     | 1,336.38      | -21.12        | 1,336.55                   | 359.09                 | 0.00              | 455,241.33         | 796,322.90        |
| 12,700.00                              | 90.00      | 359.47               | 11,550.00     | 1,436.38      | -22.05        | 1,436.55                   | 359.12                 | 0.00              | 455,341.33         | 796,321.97        |
| 12,800.00                              | 90.00      | 359.47               | 11,550.00     | 1,536.37      | -22.99        | 1,536.54                   | 359.14                 | 0.00              | 455,441.32         | 796,321.03        |
| 12,900.00                              | 90.00      | 359.47               | 11,550.00     | 1,636.37      | -23.92        | 1,636.54                   | 359.16                 | 0.00              | 455,541.32         | 796,320.10        |
| 13,000.00                              | 90.00      | 359.47               | 11,550.00     | 1,736.36      | -24.85        | 1,736.54                   | 359.18                 | 0.00              | 455,641.31         | 796,319.17        |
| 13,100.00                              | 90.00      | 359.47               | 11,550.00     | 1,836.36      | -25.78        | 1,836.54                   | 359.20                 | 0.00              | 455,741.31         | 796,318.24        |
| 13,200.00                              | 90.00      | 359.47               | 11,550.00     | 1,936.36      | -26.72        | 1,936.54                   | 359.21                 | 0.00              | 455,841.31         | 796,317.30        |
| 13,300.00                              | 90.00      | 359.47               | 11,550.00     | 2,036.35      | -27.65        | 2,036.54                   | 359.22                 | 0.00              | 455,941.30         | 796,316.37        |
| 13,400.00                              | 90.00      | 359.47               | 11,550.00     | 2,136.35      | -28.58        | 2,136.54                   | 359.23                 | 0.00              | 456,041.30         | 796,315.44        |
| 13,500.00                              | 90.00      | 359.47               | 11,550.00     | 2,236.34      | -29.51        | 2,236.54                   | 359.24                 | 0.00              | 456,141.29         | 796,314.51        |
| 13,600.00                              | 90.00      | 359.47               | 11,550.00     | 2,336.34      | -30.44        | 2,336.54                   | 359.25                 | 0.00              | 456,241.29         | 796,313.58        |
| 13,700.00                              | 90.00      | 359.47               | 11,550.00     | 2,436.33      | -31.38        | 2,436.54                   | 359.26                 | 0.00              | 456,341.28         | 796,312.64        |
| 13,800.00                              | 90.00      | 359.47               | 11,550.00     | 2,536.33      | -32.31        | 2,536.54                   | 359.27                 | 0.00              | 456,441.28         | 796,311.71        |
| 13,900.00                              | 90.00      | 359.47               | 11,550.00     | 2,636.33      | -33.24        | 2,636.53                   | 359.28                 | 0.00              | 456,541.28         | 796,310.78        |
| 14,000.00                              | 90.00      | 359.47               | 11,550.00     | 2,736.32      | -34.17        | 2,736.53                   | 359.28                 | 0.00              | 456,641.27         | 796,309.85        |





# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 14,100.00    | 90.00      | 359.47               | 11,550.00     | 2,836.32      | -35.11        | 2,836.53                   | 359.29                 | 0.00              | 456,741.27         | 796,308.91        |
| 14,200.00    | 90.00      | 359.47               | 11,550.00     | 2,936.31      | -36.04        | 2,936.53                   | 359.30                 | 0.00              | 456,841.26         | 796,307.98        |
| 14,300.00    | 90.00      | 359.47               | 11,550.00     | 3,036.31      | -36.97        | 3,036.53                   | 359.30                 | 0.00              | 456,941.26         | 796,307.05        |
| 14,400.00    | 90.00      | 359.47               | 11,550.00     | 3,136.30      | -37.90        | 3,136.53                   | 359.31                 | 0.00              | 457,041.25         | 796,306.12        |
| 14,500.00    | 90.00      | 359.47               | 11,550.00     | 3,236.30      | -38.84        | 3,236.53                   | 359.31                 | 0.00              | 457,141.25         | 796,305.18        |
| 14,600.00    | 90.00      | 359.47               | 11,550.00     | 3,336.29      | -39.77        | 3,336.53                   | 359.32                 | 0.00              | 457,241.24         | 796,304.25        |
| 14,700.00    | 90.00      | 359.47               | 11,550.00     | 3,436.29      | -40.70        | 3,436.53                   | 359.32                 | 0.00              | 457,341.24         | 796,303.32        |
| 14,800.00    | 90.00      | 359.47               | 11,550.00     | 3,536.29      | -41.63        | 3,536.53                   | 359.33                 | 0.00              | 457,441.24         | 796,302.39        |
| 14,900.00    | 90.00      | 359.47               | 11,550.00     | 3,636.28      | -42.57        | 3,636.53                   | 359.33                 | 0.00              | 457,541.23         | 796,301.45        |
| 15,000.00    | 90.00      | 359.47               | 11,550.00     | 3,736.28      | -43.50        | 3,736.53                   | 359.33                 | 0.00              | 457,641.23         | 796,300.52        |
| 15,100.00    | 90.00      | 359.47               | 11,550.00     | 3,836.27      | -44.43        | 3,836.53                   | 359.34                 | 0.00              | 457,741.22         | 796,299.59        |
| 15,200.00    | 90.00      | 359.47               | 11,550.00     | 3,936.27      | -45.36        | 3,936.53                   | 359.34                 | 0.00              | 457,841.22         | 796,298.66        |
| 15,300.00    | 90.00      | 359.47               | 11,550.00     | 4,036.26      | -46.30        | 4,036.53                   | 359.34                 | 0.00              | 457,941.21         | 796,297.72        |
| 15,400.00    | 90.00      | 359.47               | 11,550.00     | 4,136.26      | -47.23        | 4,136.53                   | 359.35                 | 0.00              | 458,041.21         | 796,296.79        |
| 15,500.00    | 90.00      | 359.47               | 11,550.00     | 4,236.26      | -48.16        | 4,236.53                   | 359.35                 | 0.00              | 458,141.21         | 796,295.86        |
| 15,600.00    | 90.00      | 359.47               | 11,550.00     | 4,336.25      | -49.09        | 4,336.53                   | 359.35                 | 0.00              | 458,241.20         | 796,294.93        |
| 15,700.00    | 90.00      | 359.47               | 11,550.00     | 4,436.25      | -50.02        | 4,436.53                   | 359.35                 | 0.00              | 458,341.20         | 796,294.00        |
| 15,800.00    | 90.00      | 359.47               | 11,550.00     | 4,536.24      | -50.96        | 4,536.53                   | 359.36                 | 0.00              | 458,441.19         | 796,293.06        |
| 15,900.00    | 90.00      | 359.47               | 11,550.00     | 4,636.24      | -51.89        | 4,636.53                   | 359.36                 | 0.00              | 458,541.19         | 796,292.13        |
| 16,000.00    | 90.00      | 359.47               | 11,550.00     | 4,736.23      | -52.82        | 4,736.53                   | 359.36                 | 0.00              | 458,641.18         | 796,291.20        |
| 16,100.00    | 90.00      | 359.47               | 11,550.00     | 4,836.23      | -53.75        | 4,836.53                   | 359.36                 | 0.00              | 458,741.18         | 796,290.27        |
| 16,200.00    | 90.00      | 359.47               | 11,550.00     | 4,936.23      | -54.69        | 4,936.53                   | 359.37                 | 0.00              | 458,841.18         | 796,289.33        |
| 16,300.00    | 90.00      | 359.47               | 11,550.00     | 5,036.22      | -55.62        | 5,036.53                   | 359.37                 | 0.00              | 458,941.17         | 796,288.40        |
| 16,400.00    | 90.00      | 359.47               | 11,550.00     | 5,136.22      | -56.55        | 5,136.53                   | 359.37                 | 0.00              | 459,041.17         | 796,287.47        |
| 16,500.00    | 90.00      | 359.47               | 11,550.00     | 5,236.21      | -57.48        | 5,236.53                   | 359.37                 | 0.00              | 459,141.16         | 796,286.54        |
| 16,600.00    | 90.00      | 359.47               | 11,550.00     | 5,336.21      | -58.42        | 5,336.53                   | 359.37                 | 0.00              | 459,241.16         | 796,285.60        |
| 16,700.00    | 90.00      | 359.47               | 11,550.00     | 5,436.20      | -59.35        | 5,436.53                   | 359.37                 | 0.00              | 459,341.15         | 796,284.67        |



# Survey Report Landscape

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Well:</b>     | BLUS 327H                                | <b>North Reference:</b>             | Grid                          |
| <b>Wellbore:</b> | Lateral                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Design:</b>   | Plan #1                                  | <b>Database:</b>                    | SBDIR_EDM                     |

## Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 16,800.00    | 90.00      | 359.47               | 11,550.00     | 5,536.20      | -60.28        | 5,536.53                   | 359.38                 | 0.00              | 459,441.15         | 796,283.74        |
| 16,900.00    | 90.00      | 359.47               | 11,550.00     | 5,636.19      | -61.21        | 5,636.53                   | 359.38                 | 0.00              | 459,541.14         | 796,282.81        |
| 17,000.00    | 90.00      | 359.47               | 11,550.00     | 5,736.19      | -62.15        | 5,736.53                   | 359.38                 | 0.00              | 459,641.14         | 796,281.87        |
| 17,100.00    | 90.00      | 359.47               | 11,550.00     | 5,836.19      | -63.08        | 5,836.53                   | 359.38                 | 0.00              | 459,741.14         | 796,280.94        |
| 17,200.00    | 90.00      | 359.47               | 11,550.00     | 5,936.18      | -64.01        | 5,936.53                   | 359.38                 | 0.00              | 459,841.13         | 796,280.01        |
| 17,300.00    | 90.00      | 359.47               | 11,550.00     | 6,036.18      | -64.94        | 6,036.53                   | 359.38                 | 0.00              | 459,941.13         | 796,279.08        |
| 17,400.00    | 90.00      | 359.47               | 11,550.00     | 6,136.17      | -65.88        | 6,136.53                   | 359.38                 | 0.00              | 460,041.12         | 796,278.14        |
| 17,500.00    | 90.00      | 359.47               | 11,550.00     | 6,236.17      | -66.81        | 6,236.53                   | 359.39                 | 0.00              | 460,141.12         | 796,277.21        |
| 17,600.00    | 90.00      | 359.47               | 11,550.00     | 6,336.16      | -67.74        | 6,336.53                   | 359.39                 | 0.00              | 460,241.11         | 796,276.28        |
| 17,700.00    | 90.00      | 359.47               | 11,550.00     | 6,436.16      | -68.67        | 6,436.53                   | 359.39                 | 0.00              | 460,341.11         | 796,275.35        |
| 17,800.00    | 90.00      | 359.47               | 11,550.00     | 6,536.16      | -69.60        | 6,536.53                   | 359.39                 | 0.00              | 460,441.11         | 796,274.42        |
| 17,900.00    | 90.00      | 359.47               | 11,550.00     | 6,636.15      | -70.54        | 6,636.53                   | 359.39                 | 0.00              | 460,541.10         | 796,273.48        |
| 18,000.00    | 90.00      | 359.47               | 11,550.00     | 6,736.15      | -71.47        | 6,736.53                   | 359.39                 | 0.00              | 460,641.10         | 796,272.55        |
| 18,100.00    | 90.00      | 359.47               | 11,550.00     | 6,836.14      | -72.40        | 6,836.53                   | 359.39                 | 0.00              | 460,741.09         | 796,271.62        |
| 18,200.00    | 90.00      | 359.47               | 11,550.00     | 6,936.14      | -73.33        | 6,936.53                   | 359.39                 | 0.00              | 460,841.09         | 796,270.69        |
| 18,300.00    | 90.00      | 359.47               | 11,550.00     | 7,036.13      | -74.27        | 7,036.53                   | 359.40                 | 0.00              | 460,941.08         | 796,269.75        |
| 18,400.00    | 90.00      | 359.47               | 11,550.00     | 7,136.13      | -75.20        | 7,136.53                   | 359.40                 | 0.00              | 461,041.08         | 796,268.82        |
| 18,500.00    | 90.00      | 359.47               | 11,550.00     | 7,236.13      | -76.13        | 7,236.53                   | 359.40                 | 0.00              | 461,141.08         | 796,267.89        |
| 18,600.00    | 90.00      | 359.47               | 11,550.00     | 7,336.12      | -77.06        | 7,336.53                   | 359.40                 | 0.00              | 461,241.07         | 796,266.96        |
| 18,700.00    | 90.00      | 359.47               | 11,550.00     | 7,436.12      | -78.00        | 7,436.53                   | 359.40                 | 0.00              | 461,341.07         | 796,266.02        |
| 18,800.00    | 90.00      | 359.47               | 11,550.00     | 7,536.11      | -78.93        | 7,536.53                   | 359.40                 | 0.00              | 461,441.06         | 796,265.09        |
| 18,900.00    | 90.00      | 359.47               | 11,550.00     | 7,636.11      | -79.86        | 7,636.53                   | 359.40                 | 0.00              | 461,541.06         | 796,264.16        |
| 19,000.00    | 90.00      | 359.47               | 11,550.00     | 7,736.10      | -80.79        | 7,736.53                   | 359.40                 | 0.00              | 461,641.05         | 796,263.23        |
| 19,100.00    | 90.00      | 359.47               | 11,550.00     | 7,836.10      | -81.73        | 7,836.53                   | 359.40                 | 0.00              | 461,741.05         | 796,262.29        |
| 19,200.00    | 90.00      | 359.47               | 11,550.00     | 7,936.09      | -82.66        | 7,936.53                   | 359.40                 | 0.00              | 461,841.04         | 796,261.36        |
| 19,300.00    | 90.00      | 359.47               | 11,550.00     | 8,036.09      | -83.59        | 8,036.53                   | 359.40                 | 0.00              | 461,941.04         | 796,260.43        |
| 19,400.00    | 90.00      | 359.47               | 11,550.00     | 8,136.09      | -84.52        | 8,136.53                   | 359.40                 | 0.00              | 462,041.04         | 796,259.50        |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | DLeg<br>(°/100ft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|-------------------|--------------------|-------------------|
| 19,500.00    | 90.00      | 359.47               | 11,550.00     | 8,236.08      | -85.46        | 8,236.53                   | 359.41                 | 0.00              | 462,141.03         | 796,258.56        |
| 19,598.12    | 90.00      | 359.47               | 11,550.00     | 8,334.20      | -86.37        | 8,334.65                   | 359.41                 | 0.00              | 462,239.15         | 796,257.65        |

5 1/2" - BLUS 327H PBHL\_100FNL\_2472FEL

## Casing Points

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name    | Casing<br>Diameter<br>(in) | Hole<br>Diameter<br>(in) |
|-----------------------------|-----------------------------|---------|----------------------------|--------------------------|
| 1,400.00                    | 1,400.00                    | 13 3/8" | 13.37                      | 17.50                    |
| 5,301.05                    | 5,300.00                    | 9 5/8"  | 9.62                       | 12.25                    |
| 19,598.12                   | 11,550.00                   | 5 1/2"  | 5.50                       | 6.00                     |



# Survey Report Landscape

Kaiser-Francis Oil Company

**Company:** KAISER-FRANCIS OIL COMPANY  
**Project:** Lea County, NM (NMEZ) NAD83 Grid  
**Site:** Bell Lake Unit South 227H,228H,327H,428H  
**Well:** BLUS 327H  
**Wellbore:** Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well BLUS 327H - Slot 327H  
**TVD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**MD Reference:** 3605.9 @ 3605.90usft (GLOnly)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** SBDIR\_EDM

## Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name                | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|---------------------|-----------|---------|-------------------|
| 9,910.05              | 9,909.00              | 1st Bone Spring     |           |         |                   |
| 6,170.05              | 6,169.00              | cherry Canyon       |           |         |                   |
| 11,878.08             | 11,550.00             | Target              |           |         |                   |
| 1,733.00              | 1,733.00              | Salado              |           |         |                   |
| 7,618.05              | 7,617.00              | Brushy Canyon       |           |         |                   |
| 1,353.00              | 1,353.00              | Rustler             |           |         |                   |
| 2,036.00              | 2,036.00              | Top of Salt         |           |         |                   |
| 8,768.05              | 8,767.00              | Bone Spring         |           |         |                   |
| 5,023.05              | 5,022.00              | Base of Salt        |           |         |                   |
| 11,459.84             | 11,404.00             | 3rd Bone Spring     |           |         |                   |
| 10,478.05             | 10,477.00             | 2nd Bone Spring     |           |         |                   |
| 5,320.05              | 5,319.00              | Bell Canyon         |           |         |                   |
| 5,223.05              | 5,222.00              | Lamar               |           |         |                   |
| 8,940.05              | 8,939.00              | Avalon              |           |         |                   |
| 10,945.05             | 10,944.00             | 3rd Bone Sping Lime |           |         |                   |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Kaiser-Francis Oil Company

## **KAISER-FRANCIS OIL COMPANY**

**Lea County, NM (NMEZ) NAD83 Grid**

**Bell Lake Unit South 227H,228H,327H,428H**

**BLUS 327H - Slot 327H**

**Lateral**

**Plan: Plan #1**

## **Standard Planning Report**

**27 August, 2020**





## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

|                    |                                  |                      |                |
|--------------------|----------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NMEZ) NAD83 Grid |                      |                |
| <b>Map System:</b> | US State Plane 1983              | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983        |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone          |                      |                |

|                              |                                          |                     |                 |                                 |
|------------------------------|------------------------------------------|---------------------|-----------------|---------------------------------|
| <b>Site</b>                  | Bell Lake Unit South 227H,228H,327H,428H |                     |                 |                                 |
| <b>Site Position:</b>        |                                          | <b>Northing:</b>    | 453,944.96 usft | <b>Latitude:</b> 32.2452781°N   |
| <b>From:</b> Map             |                                          | <b>Easting:</b>     | 796,343.61 usft | <b>Longitude:</b> 103.5085103°W |
| <b>Position Uncertainty:</b> | 0.00 usft                                | <b>Slot Radius:</b> | 13.20 in        | <b>Grid Convergence:</b> 0.44 ° |

|                             |                       |             |                            |                 |
|-----------------------------|-----------------------|-------------|----------------------------|-----------------|
| <b>Well</b>                 | BLUS 327H - Slot 327H |             |                            |                 |
| <b>Well Position</b>        | <b>+N/-S</b>          | -40.01 usft | <b>Northing:</b>           | 453,904.95 usft |
|                             | <b>+E/-W</b>          | 0.41 usft   | <b>Easting:</b>            | 796,344.02 usft |
| <b>Position Uncertainty</b> |                       | 0.00 usft   | <b>Wellhead Elevation:</b> |                 |
|                             |                       |             | <b>Ground Level:</b>       | 3,605.90 usft   |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Lateral           |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 08/27/20           | 6.61                   | 59.96                | 47,595.09429322            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 359.47               |

|                                 |                        |                          |                   |                |
|---------------------------------|------------------------|--------------------------|-------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 08/27/20                 |                   |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>  | <b>Remarks</b> |
| 1                               | 0.00                   | 19,597.32                | Plan #1 (Lateral) |                |

|                              |                        |                    |                              |                     |                     |                              |                             |                            |                |                    |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|--------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                     |                     |                              |                             |                            |                |                    |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>      |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 2,000.00                     | 0.00                   | 0.00               | 2,000.00                     | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 2,150.00                     | 3.00                   | 347.72             | 2,149.93                     | 3.84                | -0.84               | 2.00                         | 2.00                        | 0.00                       | 347.72         |                    |
| 2,812.76                     | 3.00                   | 347.72             | 2,811.78                     | 37.73               | -8.21               | 0.00                         | 0.00                        | 0.00                       | 0.00           |                    |
| 2,962.76                     | 0.00                   | 0.00               | 2,961.71                     | 41.56               | -9.05               | 2.00                         | -2.00                       | 0.00                       | 180.00         |                    |
| 10,978.09                    | 0.00                   | 0.00               | 10,977.04                    | 41.56               | -9.05               | 0.00                         | 0.00                        | 0.00                       | 0.00           | BLUS 327H KOP_216  |
| 11,878.08                    | 90.00                  | 359.47             | 11,550.00                    | 614.50              | -14.39              | 10.00                        | 10.00                       | -0.06                      | 359.47         |                    |
| 19,598.12                    | 90.00                  | 359.47             | 11,550.00                    | 8,334.20            | -86.37              | 0.00                         | 0.00                        | 0.00                       | 0.00           | BLUS 327H PBHL_110 |



## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Planned Survey        |                 |             |                       |              |              |                         |                       |                      |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>BLUS 327H SHL</b>  |                 |             |                       |              |              |                         |                       |                      |                     |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,353.00              | 0.00            | 0.00        | 1,353.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>Rustler</b>        |                 |             |                       |              |              |                         |                       |                      |                     |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>13 3/8"</b>        |                 |             |                       |              |              |                         |                       |                      |                     |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,733.00              | 0.00            | 0.00        | 1,733.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>Salado</b>         |                 |             |                       |              |              |                         |                       |                      |                     |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 2,036.00              | 0.72            | 347.72      | 2,036.00              | 0.22         | -0.05        | 0.22                    | 2.00                  | 2.00                 | 0.00                |
| <b>Top of Salt</b>    |                 |             |                       |              |              |                         |                       |                      |                     |
| 2,100.00              | 2.00            | 347.72      | 2,099.98              | 1.71         | -0.37        | 1.71                    | 2.00                  | 2.00                 | 0.00                |
| 2,150.00              | 3.00            | 347.72      | 2,149.93              | 3.84         | -0.84        | 3.84                    | 2.00                  | 2.00                 | 0.00                |
| 2,200.00              | 3.00            | 347.72      | 2,199.86              | 6.39         | -1.39        | 6.41                    | 0.00                  | 0.00                 | 0.00                |
| 2,300.00              | 3.00            | 347.72      | 2,299.73              | 11.51        | -2.50        | 11.53                   | 0.00                  | 0.00                 | 0.00                |
| 2,400.00              | 3.00            | 347.72      | 2,399.59              | 16.62        | -3.62        | 16.65                   | 0.00                  | 0.00                 | 0.00                |
| 2,500.00              | 3.00            | 347.72      | 2,499.45              | 21.73        | -4.73        | 21.78                   | 0.00                  | 0.00                 | 0.00                |
| 2,600.00              | 3.00            | 347.72      | 2,599.31              | 26.85        | -5.84        | 26.90                   | 0.00                  | 0.00                 | 0.00                |
| 2,700.00              | 3.00            | 347.72      | 2,699.18              | 31.96        | -6.96        | 32.03                   | 0.00                  | 0.00                 | 0.00                |
| 2,800.00              | 3.00            | 347.72      | 2,799.04              | 37.08        | -8.07        | 37.15                   | 0.00                  | 0.00                 | 0.00                |
| 2,812.76              | 3.00            | 347.72      | 2,811.78              | 37.73        | -8.21        | 37.80                   | 0.00                  | 0.00                 | 0.00                |
| 2,900.00              | 1.26            | 347.72      | 2,898.96              | 40.89        | -8.90        | 40.97                   | 2.00                  | -2.00                | 0.00                |
| 2,962.76              | 0.00            | 0.00        | 2,961.71              | 41.56        | -9.05        | 41.65                   | 2.00                  | -2.00                | 0.00                |
| 3,000.00              | 0.00            | 0.00        | 2,998.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,100.00              | 0.00            | 0.00        | 3,098.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,200.00              | 0.00            | 0.00        | 3,198.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,300.00              | 0.00            | 0.00        | 3,298.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,400.00              | 0.00            | 0.00        | 3,398.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,500.00              | 0.00            | 0.00        | 3,498.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,600.00              | 0.00            | 0.00        | 3,598.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,700.00              | 0.00            | 0.00        | 3,698.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,800.00              | 0.00            | 0.00        | 3,798.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 3,900.00              | 0.00            | 0.00        | 3,898.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 4,000.00              | 0.00            | 0.00        | 3,998.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 4,100.00              | 0.00            | 0.00        | 4,098.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |



## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Planned Survey              |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-----------------------------|----------------------------|---------------------------|--|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |  |
| 4,200.00                    | 0.00               | 0.00           | 4,198.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,300.00                    | 0.00               | 0.00           | 4,298.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,400.00                    | 0.00               | 0.00           | 4,398.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,500.00                    | 0.00               | 0.00           | 4,498.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,600.00                    | 0.00               | 0.00           | 4,598.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,700.00                    | 0.00               | 0.00           | 4,698.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,800.00                    | 0.00               | 0.00           | 4,798.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 4,900.00                    | 0.00               | 0.00           | 4,898.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,000.00                    | 0.00               | 0.00           | 4,998.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,023.05                    | 0.00               | 0.00           | 5,022.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| Base of Salt                |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 5,100.00                    | 0.00               | 0.00           | 5,098.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,200.00                    | 0.00               | 0.00           | 5,198.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,223.05                    | 0.00               | 0.00           | 5,222.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| Lamar                       |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 5,300.00                    | 0.00               | 0.00           | 5,298.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,301.05                    | 0.00               | 0.00           | 5,300.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 9 5/8"                      |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 5,320.05                    | 0.00               | 0.00           | 5,319.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| Bell Canyon                 |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 5,400.00                    | 0.00               | 0.00           | 5,398.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,500.00                    | 0.00               | 0.00           | 5,498.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,600.00                    | 0.00               | 0.00           | 5,598.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,700.00                    | 0.00               | 0.00           | 5,698.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,800.00                    | 0.00               | 0.00           | 5,798.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 5,900.00                    | 0.00               | 0.00           | 5,898.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,000.00                    | 0.00               | 0.00           | 5,998.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,100.00                    | 0.00               | 0.00           | 6,098.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,170.05                    | 0.00               | 0.00           | 6,169.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| cherry Canyon               |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 6,200.00                    | 0.00               | 0.00           | 6,198.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,300.00                    | 0.00               | 0.00           | 6,298.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,400.00                    | 0.00               | 0.00           | 6,398.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,500.00                    | 0.00               | 0.00           | 6,498.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,600.00                    | 0.00               | 0.00           | 6,598.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,700.00                    | 0.00               | 0.00           | 6,698.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,800.00                    | 0.00               | 0.00           | 6,798.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 6,900.00                    | 0.00               | 0.00           | 6,898.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,000.00                    | 0.00               | 0.00           | 6,998.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,100.00                    | 0.00               | 0.00           | 7,098.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,200.00                    | 0.00               | 0.00           | 7,198.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,300.00                    | 0.00               | 0.00           | 7,298.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,400.00                    | 0.00               | 0.00           | 7,398.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,500.00                    | 0.00               | 0.00           | 7,498.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,600.00                    | 0.00               | 0.00           | 7,598.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,618.05                    | 0.00               | 0.00           | 7,617.00                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| Brushy Canyon               |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 7,700.00                    | 0.00               | 0.00           | 7,698.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,800.00                    | 0.00               | 0.00           | 7,798.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 7,900.00                    | 0.00               | 0.00           | 7,898.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 8,000.00                    | 0.00               | 0.00           | 7,998.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 8,100.00                    | 0.00               | 0.00           | 8,098.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |
| 8,200.00                    | 0.00               | 0.00           | 8,198.95                    | 41.56           | -9.05           | 41.65                         | 0.00                        | 0.00                       | 0.00                      |  |





## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Planned Survey                       |                 |             |                       |              |              |                         |                       |                      |                     |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 8,300.00                             | 0.00            | 0.00        | 8,298.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                             | 0.00            | 0.00        | 8,398.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                             | 0.00            | 0.00        | 8,498.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                             | 0.00            | 0.00        | 8,598.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                             | 0.00            | 0.00        | 8,698.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,768.05                             | 0.00            | 0.00        | 8,767.00              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>Bone Spring</b>                   |                 |             |                       |              |              |                         |                       |                      |                     |
| 8,800.00                             | 0.00            | 0.00        | 8,798.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                             | 0.00            | 0.00        | 8,898.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 8,940.05                             | 0.00            | 0.00        | 8,939.00              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>Avalon</b>                        |                 |             |                       |              |              |                         |                       |                      |                     |
| 9,000.00                             | 0.00            | 0.00        | 8,998.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,100.00                             | 0.00            | 0.00        | 9,098.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,200.00                             | 0.00            | 0.00        | 9,198.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,300.00                             | 0.00            | 0.00        | 9,298.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,400.00                             | 0.00            | 0.00        | 9,398.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,500.00                             | 0.00            | 0.00        | 9,498.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,600.00                             | 0.00            | 0.00        | 9,598.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,700.00                             | 0.00            | 0.00        | 9,698.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,800.00                             | 0.00            | 0.00        | 9,798.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,900.00                             | 0.00            | 0.00        | 9,898.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 9,910.05                             | 0.00            | 0.00        | 9,909.00              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>1st Bone Spring</b>               |                 |             |                       |              |              |                         |                       |                      |                     |
| 10,000.00                            | 0.00            | 0.00        | 9,998.95              | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,100.00                            | 0.00            | 0.00        | 10,098.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,200.00                            | 0.00            | 0.00        | 10,198.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,300.00                            | 0.00            | 0.00        | 10,298.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,400.00                            | 0.00            | 0.00        | 10,398.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,478.05                            | 0.00            | 0.00        | 10,477.00             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>2nd Bone Spring</b>               |                 |             |                       |              |              |                         |                       |                      |                     |
| 10,500.00                            | 0.00            | 0.00        | 10,498.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,600.00                            | 0.00            | 0.00        | 10,598.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,700.00                            | 0.00            | 0.00        | 10,698.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,800.00                            | 0.00            | 0.00        | 10,798.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,900.00                            | 0.00            | 0.00        | 10,898.95             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| 10,945.05                            | 0.00            | 0.00        | 10,944.00             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>3rd Bone Spring Lime</b>          |                 |             |                       |              |              |                         |                       |                      |                     |
| 10,978.09                            | 0.00            | 0.00        | 10,977.04             | 41.56        | -9.05        | 41.65                   | 0.00                  | 0.00                 | 0.00                |
| <b>BLUS 327H KOP_2162FSL_2472FEL</b> |                 |             |                       |              |              |                         |                       |                      |                     |
| 11,000.00                            | 2.19            | 359.47      | 10,998.95             | 41.98        | -9.05        | 42.07                   | 10.00                 | 10.00                | 0.00                |
| 11,050.00                            | 7.19            | 359.47      | 11,048.77             | 46.07        | -9.09        | 46.15                   | 10.00                 | 10.00                | 0.00                |
| 11,100.00                            | 12.19           | 359.47      | 11,098.04             | 54.49        | -9.17        | 54.57                   | 10.00                 | 10.00                | 0.00                |
| 11,150.00                            | 17.19           | 359.47      | 11,146.39             | 67.16        | -9.29        | 67.25                   | 10.00                 | 10.00                | 0.00                |
| 11,200.00                            | 22.19           | 359.47      | 11,193.45             | 84.00        | -9.44        | 84.09                   | 10.00                 | 10.00                | 0.00                |
| 11,250.00                            | 27.19           | 359.47      | 11,238.86             | 104.88       | -9.64        | 104.97                  | 10.00                 | 10.00                | 0.00                |
| 11,300.00                            | 32.19           | 359.47      | 11,282.28             | 129.64       | -9.87        | 129.73                  | 10.00                 | 10.00                | 0.00                |
| 11,350.00                            | 37.19           | 359.47      | 11,323.38             | 158.09       | -10.13       | 158.18                  | 10.00                 | 10.00                | 0.00                |
| 11,400.00                            | 42.19           | 359.47      | 11,361.84             | 190.01       | -10.43       | 190.10                  | 10.00                 | 10.00                | 0.00                |
| 11,450.00                            | 47.19           | 359.47      | 11,397.38             | 225.16       | -10.76       | 225.25                  | 10.00                 | 10.00                | 0.00                |
| 11,459.84                            | 48.18           | 359.47      | 11,404.00             | 232.43       | -10.83       | 232.52                  | 10.00                 | 10.00                | 0.00                |
| <b>3rd Bone Spring</b>               |                 |             |                       |              |              |                         |                       |                      |                     |
| 11,500.00                            | 52.19           | 359.47      | 11,429.71             | 263.28       | -11.12       | 263.37                  | 10.00                 | 10.00                | 0.00                |
| 11,550.00                            | 57.19           | 359.47      | 11,458.60             | 304.06       | -11.50       | 304.16                  | 10.00                 | 10.00                | 0.00                |



## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Planned Survey                         |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
|----------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-----------------------------|----------------------------|---------------------------|--|
| Measured<br>Depth<br>(usft)            | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |  |
| 11,600.00                              | 62.19              | 359.47         | 11,483.83                   | 347.21          | -11.90          | 347.31                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,650.00                              | 67.19              | 359.47         | 11,505.20                   | 392.40          | -12.32          | 392.50                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,700.00                              | 72.19              | 359.47         | 11,522.54                   | 439.27          | -12.76          | 439.37                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,750.00                              | 77.19              | 359.47         | 11,535.74                   | 487.48          | -13.21          | 487.58                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,800.00                              | 82.19              | 359.47         | 11,544.68                   | 536.66          | -13.66          | 536.76                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,850.00                              | 87.19              | 359.47         | 11,549.31                   | 586.43          | -14.13          | 586.53                        | 10.00                       | 10.00                      | 0.00                      |  |
| 11,878.09                              | 90.00              | 359.47         | 11,550.00                   | 614.50          | -14.39          | 614.61                        | 10.00                       | 10.00                      | 0.00                      |  |
| Target - BLUS 327H FTP_2540FNL_2472FEL |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 11,900.00                              | 90.00              | 359.47         | 11,550.00                   | 636.41          | -14.59          | 636.52                        | 0.00                        | 0.00                       | 0.00                      |  |
| 12,000.00                              | 90.00              | 359.47         | 11,550.00                   | 736.41          | -15.53          | 736.52                        | 0.00                        | 0.00                       | 0.00                      |  |
| 12,100.00                              | 90.00              | 359.47         | 11,550.00                   | 836.40          | -16.46          | 836.52                        | 0.00                        | 0.00                       | 0.00                      |  |
| 12,200.00                              | 90.00              | 359.47         | 11,550.00                   | 936.40          | -17.39          | 936.52                        | 0.00                        | 0.00                       | 0.00                      |  |
| 12,300.00                              | 90.00              | 359.47         | 11,550.00                   | 1,036.39        | -18.32          | 1,036.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,400.00                              | 90.00              | 359.47         | 11,550.00                   | 1,136.39        | -19.26          | 1,136.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,500.00                              | 90.00              | 359.47         | 11,550.00                   | 1,236.39        | -20.19          | 1,236.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,600.00                              | 90.00              | 359.47         | 11,550.00                   | 1,336.38        | -21.12          | 1,336.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,700.00                              | 90.00              | 359.47         | 11,550.00                   | 1,436.38        | -22.05          | 1,436.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,800.00                              | 90.00              | 359.47         | 11,550.00                   | 1,536.37        | -22.99          | 1,536.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 12,900.00                              | 90.00              | 359.47         | 11,550.00                   | 1,636.37        | -23.92          | 1,636.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,000.00                              | 90.00              | 359.47         | 11,550.00                   | 1,736.36        | -24.85          | 1,736.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,100.00                              | 90.00              | 359.47         | 11,550.00                   | 1,836.36        | -25.78          | 1,836.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,200.00                              | 90.00              | 359.47         | 11,550.00                   | 1,936.36        | -26.72          | 1,936.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,300.00                              | 90.00              | 359.47         | 11,550.00                   | 2,036.35        | -27.65          | 2,036.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,400.00                              | 90.00              | 359.47         | 11,550.00                   | 2,136.35        | -28.58          | 2,136.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,500.00                              | 90.00              | 359.47         | 11,550.00                   | 2,236.34        | -29.51          | 2,236.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,600.00                              | 90.00              | 359.47         | 11,550.00                   | 2,336.34        | -30.44          | 2,336.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,700.00                              | 90.00              | 359.47         | 11,550.00                   | 2,436.33        | -31.38          | 2,436.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,800.00                              | 90.00              | 359.47         | 11,550.00                   | 2,536.33        | -32.31          | 2,536.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 13,900.00                              | 90.00              | 359.47         | 11,550.00                   | 2,636.33        | -33.24          | 2,636.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,000.00                              | 90.00              | 359.47         | 11,550.00                   | 2,736.32        | -34.17          | 2,736.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,100.00                              | 90.00              | 359.47         | 11,550.00                   | 2,836.32        | -35.11          | 2,836.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,200.00                              | 90.00              | 359.47         | 11,550.00                   | 2,936.31        | -36.04          | 2,936.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,300.00                              | 90.00              | 359.47         | 11,550.00                   | 3,036.31        | -36.97          | 3,036.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,400.00                              | 90.00              | 359.47         | 11,550.00                   | 3,136.30        | -37.90          | 3,136.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,500.00                              | 90.00              | 359.47         | 11,550.00                   | 3,236.30        | -38.84          | 3,236.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,600.00                              | 90.00              | 359.47         | 11,550.00                   | 3,336.29        | -39.77          | 3,336.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,700.00                              | 90.00              | 359.47         | 11,550.00                   | 3,436.29        | -40.70          | 3,436.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,800.00                              | 90.00              | 359.47         | 11,550.00                   | 3,536.29        | -41.63          | 3,536.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 14,900.00                              | 90.00              | 359.47         | 11,550.00                   | 3,636.28        | -42.57          | 3,636.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,000.00                              | 90.00              | 359.47         | 11,550.00                   | 3,736.28        | -43.50          | 3,736.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,100.00                              | 90.00              | 359.47         | 11,550.00                   | 3,836.27        | -44.43          | 3,836.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,200.00                              | 90.00              | 359.47         | 11,550.00                   | 3,936.27        | -45.36          | 3,936.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,300.00                              | 90.00              | 359.47         | 11,550.00                   | 4,036.26        | -46.30          | 4,036.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,400.00                              | 90.00              | 359.47         | 11,550.00                   | 4,136.26        | -47.23          | 4,136.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,500.00                              | 90.00              | 359.47         | 11,550.00                   | 4,236.26        | -48.16          | 4,236.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,600.00                              | 90.00              | 359.47         | 11,550.00                   | 4,336.25        | -49.09          | 4,336.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,700.00                              | 90.00              | 359.47         | 11,550.00                   | 4,436.25        | -50.02          | 4,436.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,800.00                              | 90.00              | 359.47         | 11,550.00                   | 4,536.24        | -50.96          | 4,536.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 15,900.00                              | 90.00              | 359.47         | 11,550.00                   | 4,636.24        | -51.89          | 4,636.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 16,000.00                              | 90.00              | 359.47         | 11,550.00                   | 4,736.23        | -52.82          | 4,736.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 16,100.00                              | 90.00              | 359.47         | 11,550.00                   | 4,836.23        | -53.75          | 4,836.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 16,200.00                              | 90.00              | 359.47         | 11,550.00                   | 4,936.23        | -54.69          | 4,936.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 16,300.00                              | 90.00              | 359.47         | 11,550.00                   | 5,036.22        | -55.62          | 5,036.52                      | 0.00                        | 0.00                       | 0.00                      |  |
| 16,400.00                              | 90.00              | 359.47         | 11,550.00                   | 5,136.22        | -56.55          | 5,136.52                      | 0.00                        | 0.00                       | 0.00                      |  |



## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Planned Survey                         |                 |             |                       |              |              |                         |                       |                      |                     |  |
|----------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft)                  | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 16,500.00                              | 90.00           | 359.47      | 11,550.00             | 5,236.21     | -57.48       | 5,236.52                | 0.00                  | 0.00                 | 0.00                |  |
| 16,600.00                              | 90.00           | 359.47      | 11,550.00             | 5,336.21     | -58.42       | 5,336.52                | 0.00                  | 0.00                 | 0.00                |  |
| 16,700.00                              | 90.00           | 359.47      | 11,550.00             | 5,436.20     | -59.35       | 5,436.52                | 0.00                  | 0.00                 | 0.00                |  |
| 16,800.00                              | 90.00           | 359.47      | 11,550.00             | 5,536.20     | -60.28       | 5,536.52                | 0.00                  | 0.00                 | 0.00                |  |
| 16,900.00                              | 90.00           | 359.47      | 11,550.00             | 5,636.19     | -61.21       | 5,636.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,000.00                              | 90.00           | 359.47      | 11,550.00             | 5,736.19     | -62.15       | 5,736.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,100.00                              | 90.00           | 359.47      | 11,550.00             | 5,836.19     | -63.08       | 5,836.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,200.00                              | 90.00           | 359.47      | 11,550.00             | 5,936.18     | -64.01       | 5,936.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,300.00                              | 90.00           | 359.47      | 11,550.00             | 6,036.18     | -64.94       | 6,036.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,400.00                              | 90.00           | 359.47      | 11,550.00             | 6,136.17     | -65.88       | 6,136.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,500.00                              | 90.00           | 359.47      | 11,550.00             | 6,236.17     | -66.81       | 6,236.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,600.00                              | 90.00           | 359.47      | 11,550.00             | 6,336.16     | -67.74       | 6,336.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,700.00                              | 90.00           | 359.47      | 11,550.00             | 6,436.16     | -68.67       | 6,436.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,800.00                              | 90.00           | 359.47      | 11,550.00             | 6,536.16     | -69.60       | 6,536.52                | 0.00                  | 0.00                 | 0.00                |  |
| 17,900.00                              | 90.00           | 359.47      | 11,550.00             | 6,636.15     | -70.54       | 6,636.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,000.00                              | 90.00           | 359.47      | 11,550.00             | 6,736.15     | -71.47       | 6,736.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,100.00                              | 90.00           | 359.47      | 11,550.00             | 6,836.14     | -72.40       | 6,836.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,200.00                              | 90.00           | 359.47      | 11,550.00             | 6,936.14     | -73.33       | 6,936.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,300.00                              | 90.00           | 359.47      | 11,550.00             | 7,036.13     | -74.27       | 7,036.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,400.00                              | 90.00           | 359.47      | 11,550.00             | 7,136.13     | -75.20       | 7,136.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,500.00                              | 90.00           | 359.47      | 11,550.00             | 7,236.13     | -76.13       | 7,236.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,600.00                              | 90.00           | 359.47      | 11,550.00             | 7,336.12     | -77.06       | 7,336.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,700.00                              | 90.00           | 359.47      | 11,550.00             | 7,436.12     | -78.00       | 7,436.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,800.00                              | 90.00           | 359.47      | 11,550.00             | 7,536.11     | -78.93       | 7,536.52                | 0.00                  | 0.00                 | 0.00                |  |
| 18,900.00                              | 90.00           | 359.47      | 11,550.00             | 7,636.11     | -79.86       | 7,636.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,000.00                              | 90.00           | 359.47      | 11,550.00             | 7,736.10     | -80.79       | 7,736.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,100.00                              | 90.00           | 359.47      | 11,550.00             | 7,836.10     | -81.73       | 7,836.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,200.00                              | 90.00           | 359.47      | 11,550.00             | 7,936.10     | -82.66       | 7,936.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,300.00                              | 90.00           | 359.47      | 11,550.00             | 8,036.09     | -83.59       | 8,036.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,400.00                              | 90.00           | 359.47      | 11,550.00             | 8,136.09     | -84.52       | 8,136.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,500.00                              | 90.00           | 359.47      | 11,550.00             | 8,236.08     | -85.46       | 8,236.52                | 0.00                  | 0.00                 | 0.00                |  |
| 19,598.12                              | 90.00           | 359.47      | 11,550.00             | 8,334.20     | -86.37       | 8,334.64                | 0.00                  | 0.00                 | 0.00                |  |
| 5 1/2" - BLUS 327H PBHL_100FNL_2472FEL |                 |             |                       |              |              |                         |                       |                      |                     |  |

| Design Targets                                              |               |              |            |              |              |                 |                |              |               |
|-------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|--------------|---------------|
| Target Name<br>- hit/miss target<br>- Shape                 | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude     | Longitude     |
| BLUS 327H SHL<br>- plan hits target center<br>- Point       | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 453,904.95      | 796,344.02     | 32.2451681°N | 103.5085100°W |
| BLUS 327H KOP_2162F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 10,977.04  | 41.56        | -9.05        | 453,946.52      | 796,334.97     | 32.2452825°N | 103.5085382°W |
| BLUS 327H PBHL_100F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,550.00  | 8,334.20     | -86.37       | 462,239.15      | 796,257.65     | 32.2680774°N | 103.5085822°W |
| BLUS 327H FTP_2540F<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,550.00  | 614.50       | -14.39       | 454,519.45      | 796,329.63     | 32.2468574°N | 103.5085413°W |



## Planning Report

Kaiser-Francis Oil Company

|                  |                                          |                                     |                               |
|------------------|------------------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | SBDIR_EDM                                | <b>Local Co-ordinate Reference:</b> | Well BLUS 327H - Slot 327H    |
| <b>Company:</b>  | KAISER-FRANCIS OIL COMPANY               | <b>TVD Reference:</b>               | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Project:</b>  | Lea County, NM (NMEZ) NAD83 Grid         | <b>MD Reference:</b>                | 3605.9 @ 3605.90usft (GLOnly) |
| <b>Site:</b>     | Bell Lake Unit South 227H,228H,327H,428H | <b>North Reference:</b>             | Grid                          |
| <b>Well:</b>     | BLUS 327H                                | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | Lateral                                  |                                     |                               |
| <b>Design:</b>   | Plan #1                                  |                                     |                               |

| Casing Points         |                       |         |                      |                    |  |
|-----------------------|-----------------------|---------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name    | Casing Diameter (in) | Hole Diameter (in) |  |
| 1,400.00              | 1,400.00              | 13 3/8" | 13.37                | 17.50              |  |
| 5,301.05              | 5,300.00              | 9 5/8"  | 9.62                 | 12.25              |  |
| 19,598.12             | 11,550.00             | 5 1/2"  | 5.50                 | 6.00               |  |

| Formations            |                       |                     |           |         |                   |  |
|-----------------------|-----------------------|---------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                | Lithology | Dip (°) | Dip Direction (°) |  |
| 1,353.00              | 1,353.00              | Rustler             |           |         |                   |  |
| 1,733.00              | 1,733.00              | Salado              |           |         |                   |  |
| 2,036.00              | 2,036.00              | Top of Salt         |           |         |                   |  |
| 5,023.05              | 5,022.00              | Base of Salt        |           |         |                   |  |
| 5,223.05              | 5,222.00              | Lamar               |           |         |                   |  |
| 5,320.05              | 5,319.00              | Bell Canyon         |           |         |                   |  |
| 6,170.05              | 6,169.00              | cherry Canyon       |           |         |                   |  |
| 7,618.05              | 7,617.00              | Brushy Canyon       |           |         |                   |  |
| 8,768.05              | 8,767.00              | Bone Spring         |           |         |                   |  |
| 8,940.05              | 8,939.00              | Avalon              |           |         |                   |  |
| 9,910.05              | 9,909.00              | 1st Bone Spring     |           |         |                   |  |
| 10,478.05             | 10,477.00             | 2nd Bone Spring     |           |         |                   |  |
| 10,945.05             | 10,944.00             | 3rd Bone Sping Lime |           |         |                   |  |
| 11,459.84             | 11,404.00             | 3rd Bone Spring     |           |         |                   |  |
| 11,878.08             | 11,550.00             | Target              |           |         |                   |  |