

Form 3160-3  
(October 2024)

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2027

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMLC063798
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM068292H/BELL LAKE-INT. BONE
2. Name of Operator KAISER FRANCIS OIL COMPANY		8. Lease Name and Well No. <del>BELL LAKE UNIT SOUTH</del> <b>BELL LAKE SOUTH UNIT</b> 105H
3a. Address 6733 S. Yale Ave., Tulsa, OK 74121	3b. Phone No. (include area code) (918) 491-0000	9. API Well No. <b>30-025-56006</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SENE / 2480 FNL / 1296 FEL / LAT 32.2470299 / LONG -103.5217137</b> At proposed prod. zone <b>SWSE / 25 FSL / 1370 FEL / LAT 32.2248986 / LONG -103.5219442</b>		10. Field and Pool, or Exploratory BELL LAKE/BONE SPRING, SOUTH
11. Sec., T. R. M. or Blk. and Survey or Area SEC 1/T24S/R33E/NMP		
14. Distance in miles and direction from nearest town or post office* <b>19 miles</b>	12. County or Parish <b>LEA</b>	13. State <b>NM</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1296 feet</b>	16. No of acres in lease <b>480.0</b>	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>30 feet</b>	19. Proposed Depth <b>10450 feet / 18503 feet</b>	20. BLM/BIA Bond No. in file <b>FED: NMB105674934</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3630 feet</b>	22. Approximate date work will start* <b>11/17/2026</b>	23. Estimated duration <b>15 days</b>
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

25. Signature (Electronic Submission)	Name (Printed/Typed) CHRISTINA OPFER / Ph: (918) 491-0000	Date 09/03/2025
Title Regulatory Manager		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 10/07/2025
Title Assistant Field Manager Lands & Minerals Carlsbad Field Office		

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

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



(Continued on page 2)

\*(Instructions on page 2)

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48( d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to a new evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## Additional Operator Remarks

### Location of Well

0. SHL: SENE / 2480 FNL / 1296 FEL / TWSP: 24S / RANGE: 33E / SECTION: 1 / LAT: 32.2470299 / LONG: -103.5217137 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 2450 FSL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 1 / LAT: 32.2460853 / LONG: -103.5219527 ( TVD: 10450 feet, MD: 10795 feet )

PPP: NWNE / 0 FNL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 12 / LAT: 32.2393509 / LONG: -103.52195 ( TVD: 10450 feet, MD: 13245 feet )

BHL: SWSE / 25 FSL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 12 / LAT: 32.2248986 / LONG: -103.5219442 ( TVD: 10450 feet, MD: 18503 feet )

### BLM Point of Contact

Name: TENILLE C MOLINA

Title: Land Law Examiner

Phone: (575) 234-2224

Email: TCMOLINA@BLM.GOV

CONFIDENTIAL

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b> Kaiser Francis
<b>WELL NAME &amp; NO.:</b> Bell Lake Unit South 105H
<b>LOCATION:</b> 1-24S-33E-NMP
<b>COUNTY:</b> <span style="border: 1px solid black; padding: 2px;">Lea County, New Mexico</span>

Create COAs

<p style="text-align: center;"><b>H<sub>2</sub>S</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Not Reported</div>	<p style="text-align: center;"><b>Cave / Karst</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Low</div>	<p style="text-align: center;"><b>Waste Prevention Rule</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Waste Minimization Plan</div>
<p style="text-align: center;"><b>Potash</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">None</div>	<p style="text-align: center;"><b>R-111-Q Design</b></p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p style="text-align: center;"><b>Wellhead</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Multibowl</div> <p><input checked="" type="checkbox"/> Flex Hose</p> <p><input type="checkbox"/> Break Testing</p>	<p style="text-align: center;"><b>Casing</b></p> <div style="border: 1px solid black; padding: 2px; text-align: center; margin-bottom: 5px;">3-String Well</div> <p> <input type="checkbox"/> Liner                      <input type="checkbox"/> Fluid Filled                      <input type="checkbox"/> Casing Clearance             </p>	
	<p style="text-align: center;"><b>Cementing</b></p> <p> <input type="checkbox"/> DV Tool                          <input type="checkbox"/> Bradenhead                          <input type="checkbox"/> Echometer                 </p> <p> <input type="checkbox"/> Offline Cement                          <input type="checkbox"/> Open Annulus                          <input type="checkbox"/> Pilot Hole                 </p>	
<p style="text-align: center;"><b>Special Requirements</b></p> <p> <input type="checkbox"/> Capitan Reef                          <input type="checkbox"/> Water Disposal                          <input type="checkbox"/> COM                          <input checked="" type="checkbox"/> Unit                 </p>		

**A. HYDROGEN SULFIDE**

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

**B. CASING**

1. The 13-3/8 inch surface casing shall be set at approximately 1245 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the

- cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
  3. The minimum required fill of cement behind the **7 x 5.5** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 15%. Additional cement maybe required.**

### C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

#### **D. SPECIAL REQUIREMENT(S)**

##### **Unit Wells:**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation but will replace the unit number with the participating area number when the sign is replaced.

##### **Commercial Well Determination:**

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

### Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

## **B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification

- matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
  4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    - iii. Manufacturer representative shall install the test plug for the initial BOP test.
    - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
    - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the

pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

### **C. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

### **D. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**Approved by Zota Stevens on 10/2/2025**  
575-234-5998 / zstevens@blm.gov

<b>C-102</b> Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>		Revised July 9, 2024	
	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal		
		<input type="checkbox"/> Amended Report		
			<input type="checkbox"/> As Drilled	

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-56006</b>	Pool Code 98264	Pool Name Bell Lake; Bone Spring, South
Property Code <b>338095</b>	Property Name <b>BELL LAKE SOUTH UNIT</b> <del>BELL LAKE UNIT SOUTH</del>	Well Number <b>#105H</b>
OGRID No. 12361	Operator Name KAISER-FRANCIS OIL COMPANY	Ground Level Elevation 3630'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
H	1	24-S	33-E		2480' N	1296' E	N 32.2470299	W 103.5217137	LEA

**Bottom Hole Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	12	24-S	33-E		25' S	1370' E	N 32.2248986	W 103.5219442	LEA

Dedicated Acres 480	Infill or Defining Well Infill	Defining Well API 30-025-48177	Overlapping Spacing Unit (Y/N) N	Consolidated Code
Order Numbers R-14600			Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**Kick Off Point (KOP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
G	1	24-S	33-E		2251' N	1370' E	N 32.2476603	W 103.5219532	LEA

**First Take Point (FTP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	1	24-S	33-E		2450' S	1370' E	N 32.2460853	W 103.5219527	LEA

**Last Take Point (LTP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	12	24-S	33-E		100' S	1370' E	N 32.2251048	W 103.5219443	LEA

Unitized Area or Area of Uniform Interest UNIT	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3630
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**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

**Christina Opfer** 9/2/2025

Signature Date

Christina Opfer

Print Name

ChristinaO@kfoc.net

E-mail Address

**SURVEYORS CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor Date

Certificate Number

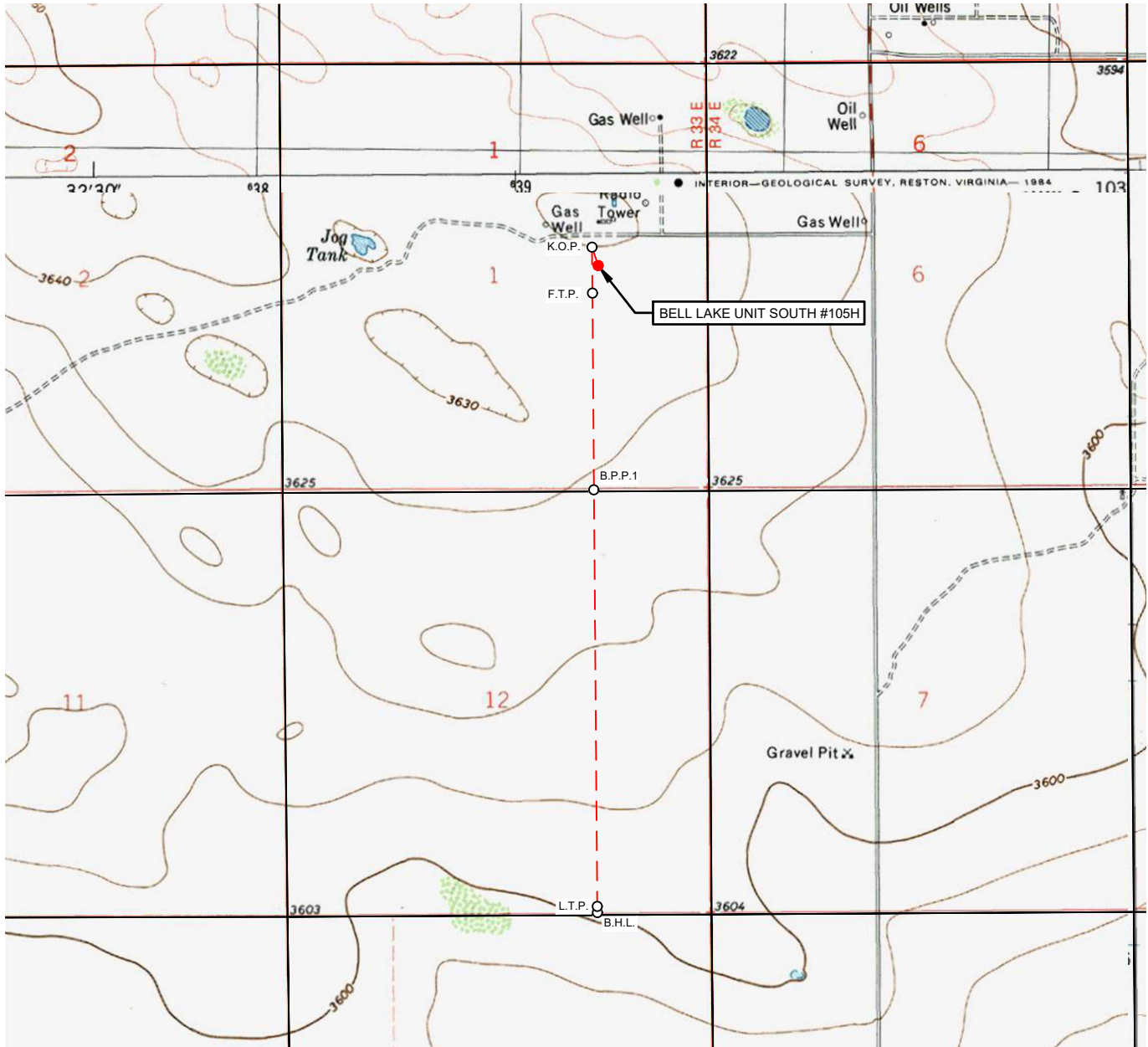
Date of Survey  
08/08/2025

Note: 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

D:\SURVEY\BASE\FRANCIS\BELL\_LAKE\_UNIT\_SOUTH\_105H\_PROD\OCD\_BELL\_LAKE\_UNIT\_SOUTH\_105H\_PROD\OCD\_BELL\_LAKE\_UNIT\_SOUTH\_105H\_PROD\REV 01/2025 327.FM



# LOCATION & ELEVATION VERIFICATION MAP



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H

SECTION 1 TWP 24-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3630'  
 DESCRIPTION 2480' FNL & 1296' FEL

LATITUDE N 32.2470299 LONGITUDE W 103.5217137



SCALE: 1" = 2000'  
 0' 1000' 2000'

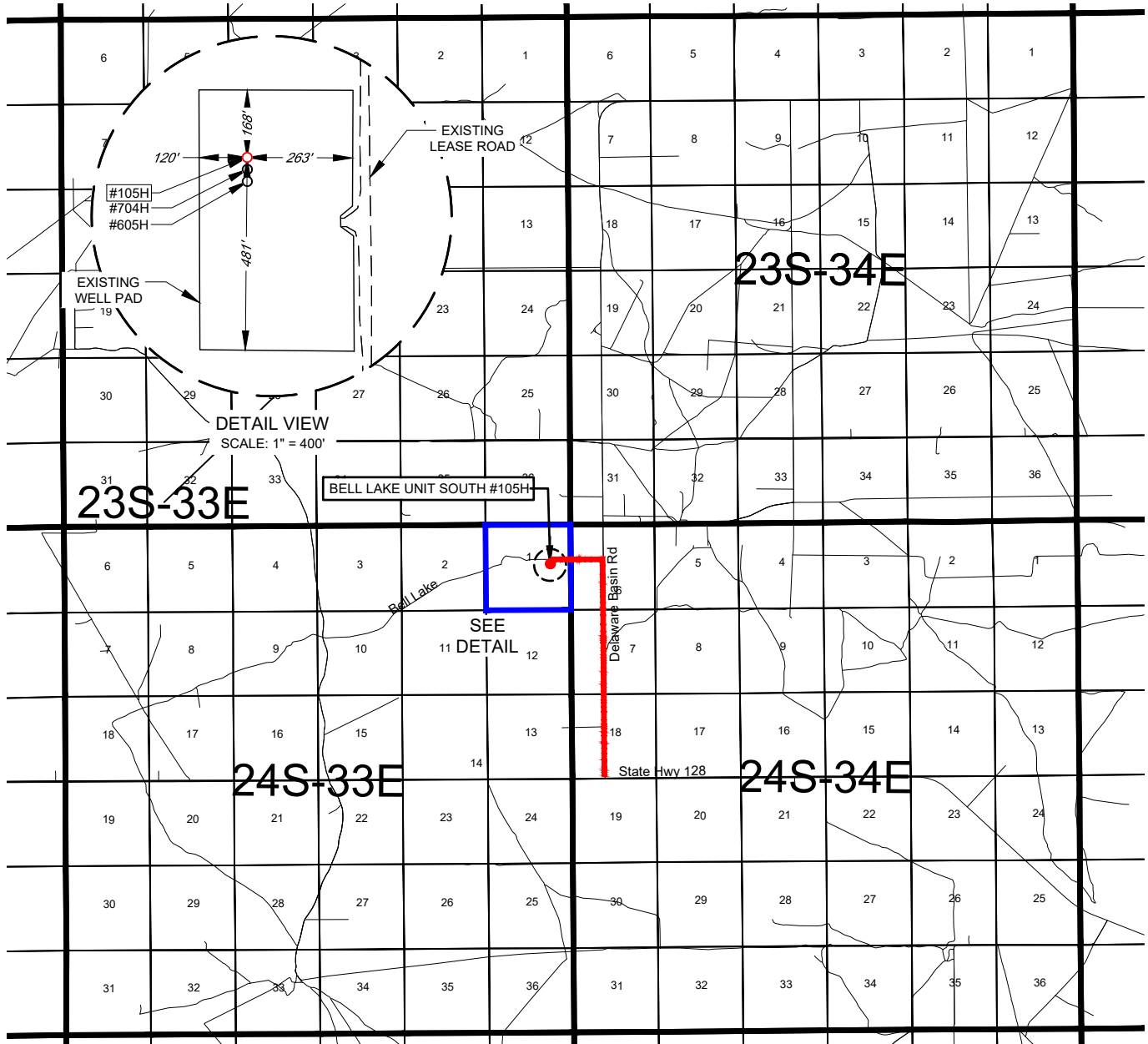
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EXHIBIT 2  
VICINITY MAP



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H

SECTION 1 TWP 24-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM  
DESCRIPTION 2480' FNL & 1296' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-128 & DELAWARE BASIN RD, GO NORTH ON DELAWARE BASIN RD ±2.6 MILES. THENCE WEST (LEFT) ON BELL LAKE RD ±0.6 MILES, THENCE SOUTH (LEFT) ON A LEASE ROAD ±480 FEET TO A POINT ±283 FEET NORTHEAST OF THE LOCATION.



SCALE: 1" = 10000'  
0' 5000' 10000'



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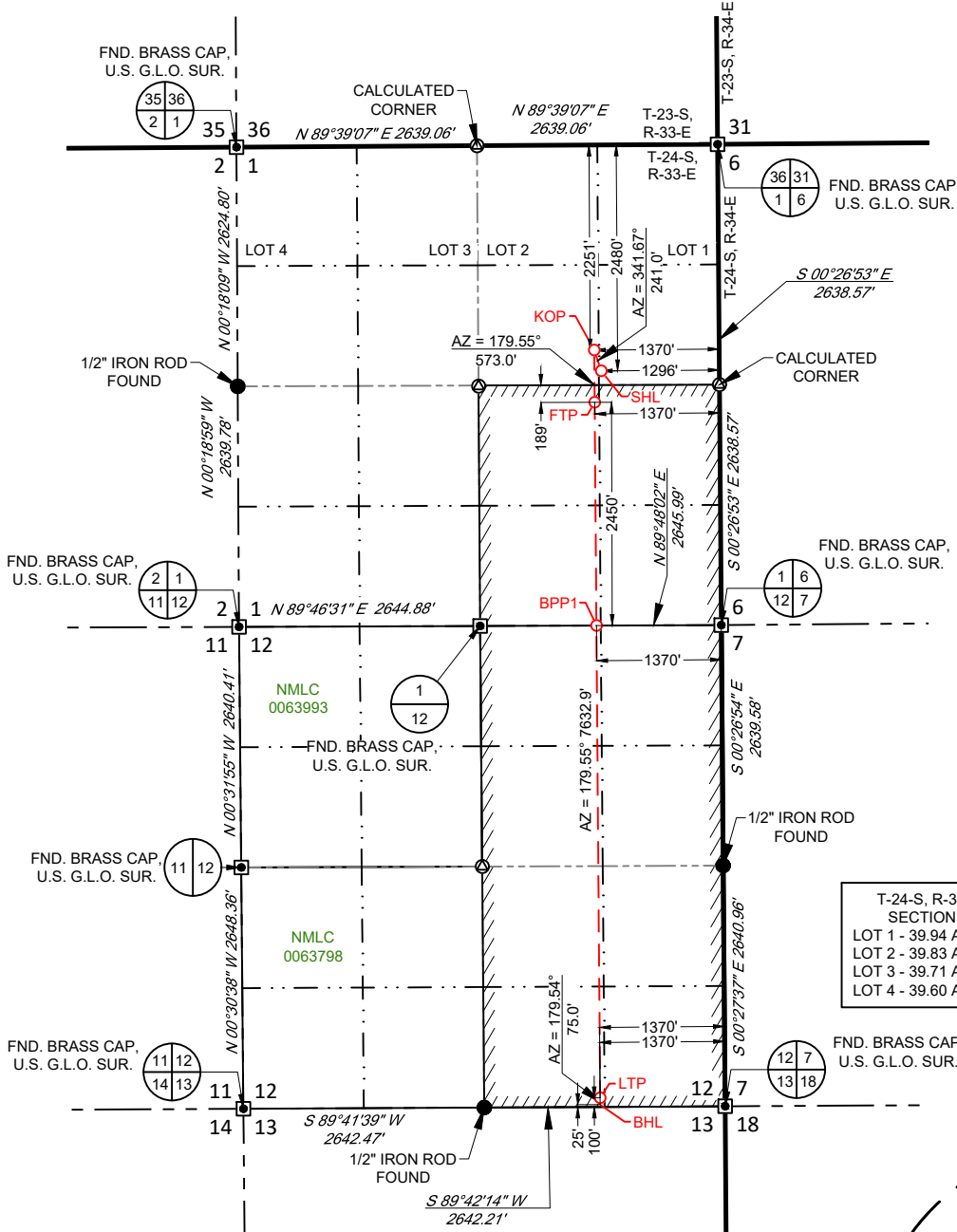
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KAISER-FRANCIS OIL COMPANY

EXHIBIT 2A

SECTION 1, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



**SURFACE LOCATION (SHL)**

NEW MEXICO EAST  
NAD 1983  
X=792257 Y=454551  
LAT.: N 32.2470299  
LONG.: W 103.5217137  
2480' FNL 1296' FEL

**KICK OFF POINT (KOP)**

NEW MEXICO EAST  
NAD 1983  
X=792181 Y=454780  
LAT.: N 32.2476603  
LONG.: W 103.5219532  
2251' FNL 1370' FEL

**FIRST TAKE POINT (FTP)**

NEW MEXICO EAST  
NAD 1983  
X=792185 Y=454207  
LAT.: N 32.2460853  
LONG.: W 103.5219527  
2450' FSL 1370' FEL

**BLM PERF. POINT (BPP1)**

NEW MEXICO EAST  
NAD 1983  
X=792205 Y=451757  
LAT.: N 32.2393509  
LONG.: W 103.5219500  
0' FNL 1370' FEL

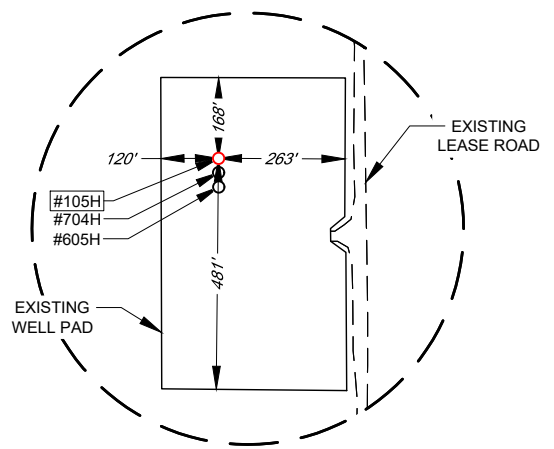
**LAST TAKE POINT (LTP)**

NEW MEXICO EAST  
NAD 1983  
X=792246 Y=446574  
LAT.: N 32.2251048  
LONG.: W 103.5219443  
100' FSL 1370' FEL

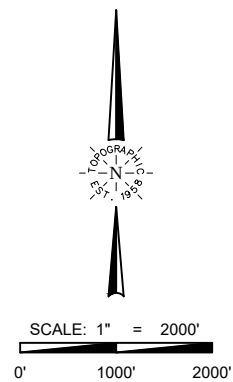
**BOTTOM HOLE LOCATION (BHL)**

NEW MEXICO EAST  
NAD 1983  
X=792246 Y=446499  
LAT.: N 32.2248986  
LONG.: W 103.5219442  
25' FSL 1370' FEL

T-24-S, R-33-E  
SECTION 5  
LOT 1 - 39.94 ACRES  
LOT 2 - 39.83 ACRES  
LOT 3 - 39.71 ACRES  
LOT 4 - 39.60 ACRES



DETAIL VIEW  
SCALE: 1" = 400'



LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H

SECTION 1 TWP 24-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM

DISTANCE & DIRECTION  
FROM INT. OF NM-128 & DELAWARE BASIN RD. GO NORTH ON  
DELAWARE BASIN RD ±2.6 MILES. THENCE WEST (LEFT) ON BELL LAKE  
RD ±0.6 MILES, THENCE SOUTH (LEFT) ON A LEASE ROAD ±480 FEET  
TO A POINT ±283 FEET NORTHEAST OF THE LOCATION.



Angel M. Baeza, P.S. No. 25116

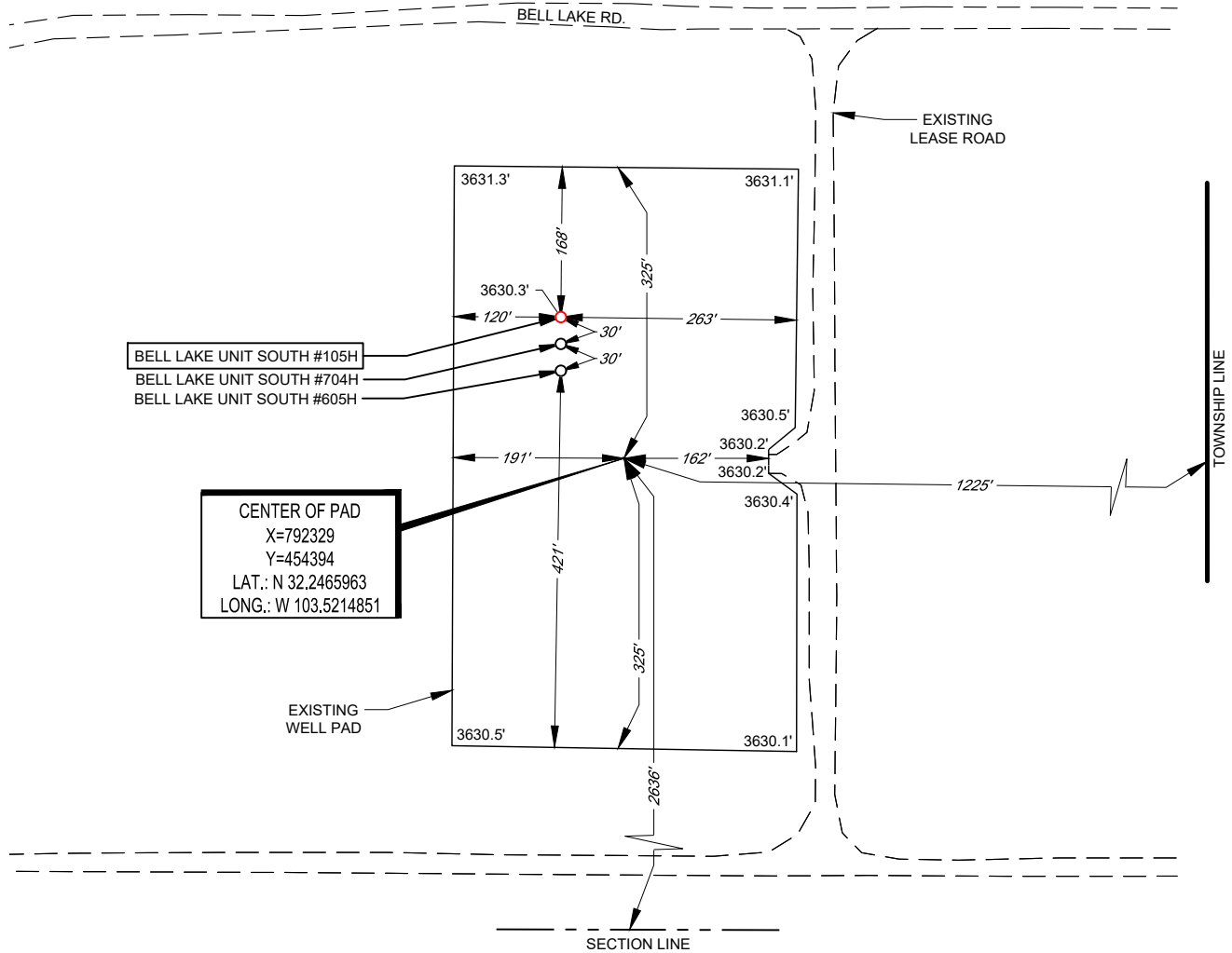
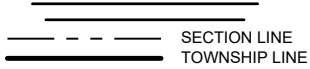


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KAISER-FRANCIS OIL COMPANY

SECTION 1, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

LEGEND



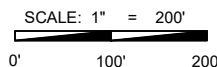
Angel M. Baeza, P.S. No. 25116

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H  
#105H LATITUDE N 32.2470299 #105H LONGITUDE W 103.5217137

CENTER OF PAD IS 2636' FSL & 1225' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

# AERIAL PHOTO



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H

SECTION 1 TWP 24-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3630'  
 DESCRIPTION 2480' FNL & 1296' FEL

LATITUDE N 32.2470299 LONGITUDE W 103.5217137



SCALE: 1" = 2000'  
 0' 1000' 2000'

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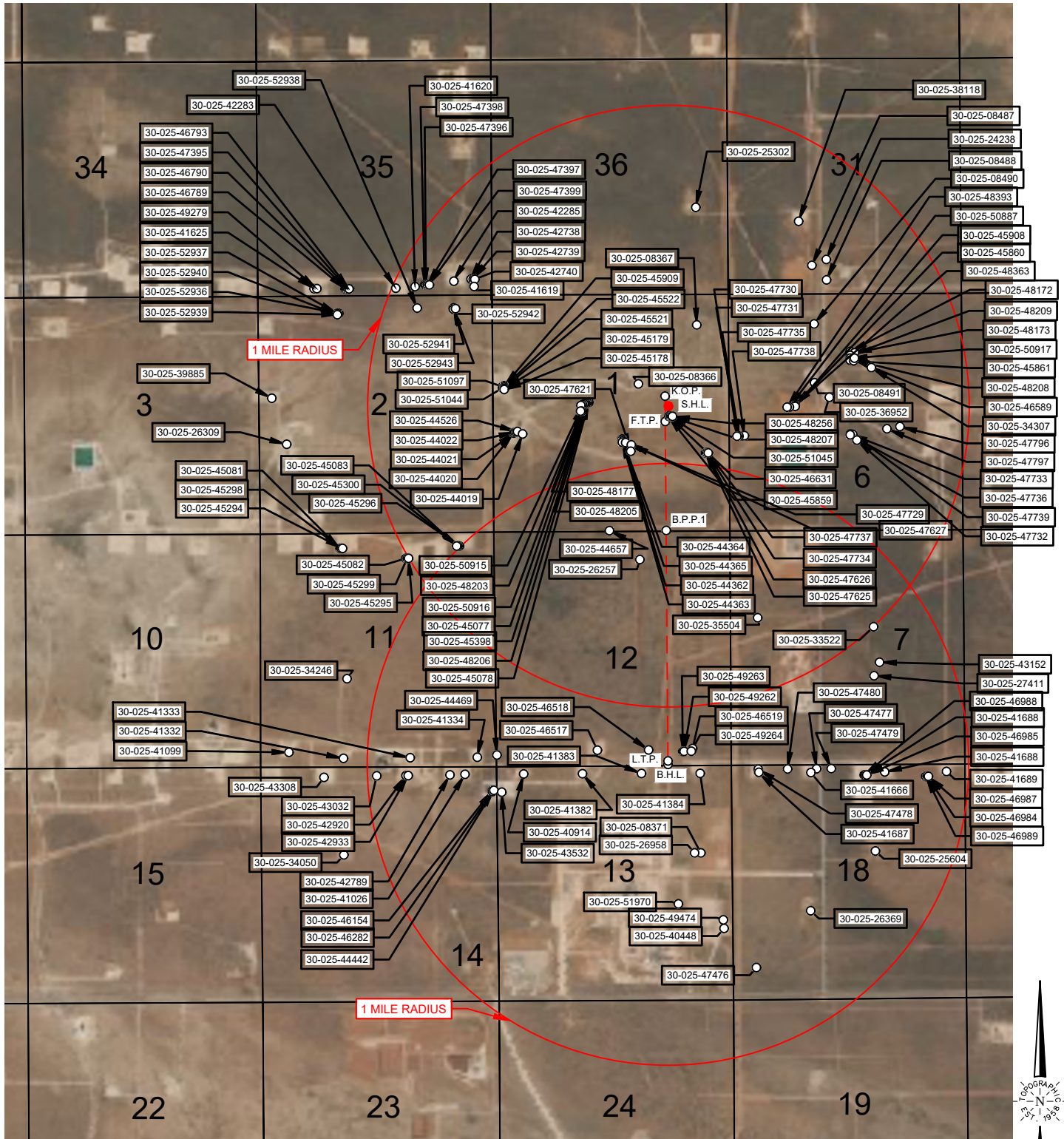


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# EXHIBIT 3

SECTION 1, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

KAISER-FRANCIS OIL COMPANY



LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH #105H

SCALE: NTS

#105H LATITUDE N 32.2470299

#105H LONGITUDE W 103.5217137

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State of New Mexico  
 Energy, Minerals and Natural Resources Department

Submit Electronically  
 Via E-permitting

Oil Conservation Division  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:** Kaiser-Francis Oil Company OGRID: 12361 Date: 10 / 21 / 2025

**II. Type:**  Original  Amendment due to  19.15.27.9.D(6)(a) NMAC  19.15.27.9.D(6)(b) NMAC  Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
South Pad 4 wells listed on next page.						

**IV. Central Delivery Point Name:** BLSU CTB SW [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
South Pad 4 anticipated schedule listed on next page.						

**VI. Separation Equipment:**  Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**III. Wells**

Well Name	Well Location (ULSTR)	Footages	Expected Oil BBL/D	Expected Gas MCF/D	Expected Water BBL/D	Flared or Vented
Bell Lake South Unit 704H	H-1-24S-33E	2510' FNL & 1226' FEL	800	1500	400	0
Bell Lake South Unit 605H	H-1-24S-33E	2540' FNL & 1226' FEL	800	1500	400	0
Bell Lake South Unit 105H	H-1-24S-33E	2480' FNL & 1226' FEL	800	1500	400	0

**V. Anticipated Schedule**

Well Name	Spud	TD	Completion	Initial Flow Back	First Production
Bell Lake South Unit 105H	7/15/2026	7/29/2026	9/15/2026	10/15/2026	10/16/2026
Bell Lake South Unit 704H	7/30/2026	8/14/2026	9/15/2026	10/15/2026	10/16/2026
Bell Lake South Unit 605H	8/15/2026	8/29/2026	9/15/2026	10/15/2026	10/16/2026

## **Kaiser Francis Oil Company Natural Gas Management Plan**

### VI. Separation Equipment:

The surface facility design includes the following process equipment: 3-phase separators (1 per well), a sales gas scrubber, one or two 3-phase heater treaters, multiple VRU compressors (sized for tank flash vapors and heater treater flash gas), multiple water and oil tanks, flare knockouts (HP & LP), and flares (HP &LP). All process vessels are sized to separate oil, water and gas based upon typical/historical predicted well performance. Each process vessels will be fitted with a Pressure Safety Valve (PSV) per ASME requirements to mitigate vessel rupture and loss of containment. The process vessels will be fitted with pressure transmitters that communicate to the facility control system. This will allow operators to monitor pressures. The control system will be configured to automatically shut in all wells at each well head via Emergency Shut Down (ESD) valve at programmed pressure levels to avoid over-pressure and potential vent of natural gas. Natural gas will be preferentially sold to pipeline and only during upset/emergency conditions will gas be directly automatically to the HP flare system until each well ESD valve closes. Flash gas from the tanks and heater treaters will be compressed via VRU compressors and will be preferentially sold to pipeline. Oil tanks and water tanks will be fitted with lockdown hatches and 32 oz PVRV's (Pressure/Vacuum Relief Vents) to protect the tanks from rupture/collapse. The tank header closed vent system will be sized to keep pressures below 20 oz to ensure the gas can get to the low-pressure (LP) flare even in the event the VRU's are not running. The tank header closed vent system will include a knockout vessel and LP flare. Only during upset/emergency conditions will tank flash vapors be direct to the LP flare system.

### VII. Operational Practices:

During drilling operations- Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.

During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.

During production operations, all process vessels (separators, heater treaters, and Tanks) will route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergency, or malfunction. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize to the flare. Once a vessel is depressurized to less than 1-2 psig, the remaining natural gas in the vessel is vented to atmosphere. Once a tank is depressurized to less than 1-2 oz, the remaining natural gas in the tank is vented to atmosphere. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.

**Section 2 – Enhanced Plan**

**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  will  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  does  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**If Operator checks this box, Operator will select one of the following:**

**Well Shut-In.**  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

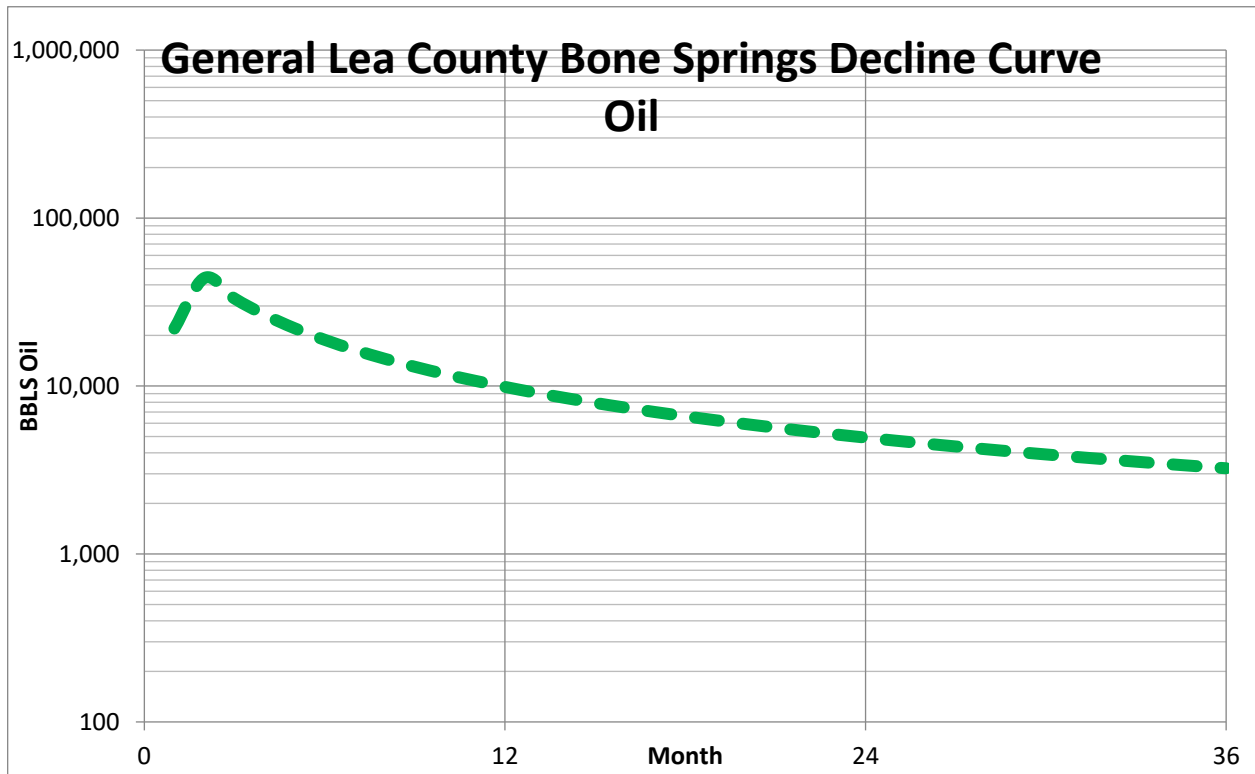
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

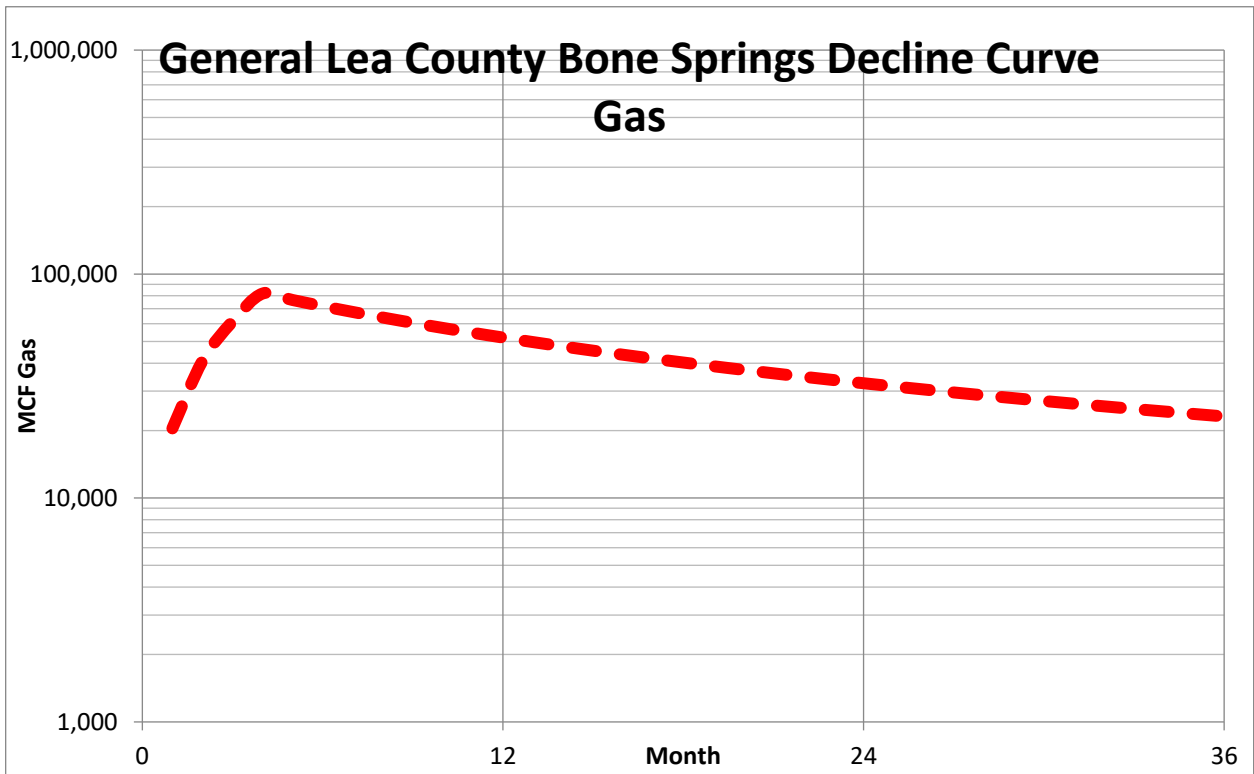
(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Christina Opfer
Printed Name:	Christina Opfer
Title:	Regulatory Manager
E-mail Address:	ChristinaO@kfoc.net
Date:	10/21/2025
Phone:	918-491-4468
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	







U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

10/13/2025

**APD ID:** 10400106746

**Submission Date:** 09/03/2025

Highlighted data reflects the most recent changes

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** BELL LAKE UNIT SOUTH

**Well Number:** 105H

**Well Type:** OIL WELL

**Well Work Type:** Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16546525	---	3628	0	0	ALLUVIUM, SANDSTONE	NONE	N
16546526	RUSTLER ANHYDRITE	2313	1315	1315	ANHYDRITE	NONE	N
16546527	TOP OF SALT	2063	1565	1565	SALT	NONE	N
16546528	BASE OF SALT	-1337	4965	4965	SALT	NONE	N
16546529	LAMAR	-1607	5235	5235	LIMESTONE	NATURAL GAS, OIL	Y
16546530	BELL CANYON	-1652	5280	5280	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16546531	CHERRY CANYON	-2722	6350	6350	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16546532	BRUSHY CANYON	-3872	7500	7500	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16546533	BONE SPRING	-5342	8970	8970	LIMESTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M

**Rating Depth:** 18000

**Equipment:** A 5M system will be installed according to 43 CFR 3172 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets(choke side shall be a minimum 3 line and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. A manual and hydraulic valve (2 min) will be installed on the choke line, 2 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped. BOP will be installed on top of a multi-bowl wellhead.

**Requesting Variance?** YES

**Variance request:** A variance to the required rigid steel line connecting the choke is requested. Certification is attached in the BOP attachments.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR 3172 requirements. The System may be upgraded to a higher

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** BELL LAKE UNIT SOUTH

**Well Number:** 105H

pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional and tested.

**Choke Diagram Attachment:**

D2\_CHOKE\_HOSE\_M15181\_20250903121520.pdf

D2\_Choke\_Manifold\_10k\_20250903121525.pdf

D2\_Multibowl\_Wellhead\_Cactus\_3\_String\_20250903121531.pdf

**BOP Diagram Attachment:**

D2\_BOP\_stack\_5k\_annular\_20250903121536.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1250	0	1250	3630	2380	1250	J-55	54.5	BUTT	1.9	4.6	DRY	13.4	DRY	12.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5280	0	5280	3632	-1650	5280	P-110	40	BUTT	1.6	3.3	DRY	6.2	DRY	6.8
3	PRODUCTION	8.75	7.0	NEW	API	Y	0	9895	0	9877	3628	-6247	9895	P-110	29	OTHER - GBCD	1.8	2.3	DRY	2.1	DRY	2
4	PRODUCTION	8.5	5.5	NEW	API	Y	9895	18503	9877	10450	-6247	-6820	8608	P-110	20	OTHER - GBCD	2.4	2.8	DRY	4.1	DRY	4.2

**Casing Attachments**

**Operator Name:** KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT SOUTH**Well Number:** 105H**Casing Attachments**

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**Casing ID:** 1                    **String**        SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

D3\_Pipe\_Body\_and\_API\_Connections\_Performance\_Data\_13.3750\_54.5000\_0.3800\_\_J55\_20250903121613.pdf

D3\_Casing\_Assumptions\_BLUS\_105H\_20250903121619.pdf

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**Casing ID:** 2                    **String**        INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

D3\_API\_BTC\_9.625\_0.395\_P110\_ICY\_01242025\_20250903121628.pdf

D3\_Casing\_Assumptions\_BLUS\_105H\_20250903121638.pdf

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**Casing ID:** 3                    **String**        PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PPS\_7.000od\_2900ppf\_VAM\_P\_110EC\_GB\_CD\_Butt\_7.875\_Rev\_0\_05032022\_20250903121650.pdf

D3\_Casing\_Assumptions\_BLUS\_105H\_20250903121655.pdf

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**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** BELL LAKE UNIT SOUTH

**Well Number:** 105H

**Casing Attachments**

**Casing ID:** 4      **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

D3\_5.5in\_20ppf\_P110\_GBCD\_Performance\_Sheet\_20250903121555.pdf

**Casing Design Assumptions and Worksheet(s):**

D3\_Casing\_Assumptions\_BLUS\_105H\_20250903121601.pdf

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MID	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1025	713	1.75	13.5	1246	75	Class C	Poly-E-Flake-Calcium Chloride, 0.125 lbm/sk Poly-E-Flake
SURFACE	Tail		1025	1245	198	1.35	14.8	267.5	75	Class C	1% Calcium Chloride, 0.125 lbm/sk Poly-E-Flake
INTERMEDIATE	Lead		0	4750	1241	2.1	12	2604	75	Class C	5% Salt, 3 lbm/sk Kol-Seal, 0.13 lbm/sk Poly-E-Flake
INTERMEDIATE	Tail		4750	5250	205	1.34	14.8	274.1	75	Class C	0.4% Halad(R)-344, 0.125 lbm/sk Poly-E-Flake
PRODUCTION	Lead		5050	9895	238	3.52	10.5	837.7	15	Class H	6 lbm/sk BRIDGEMAKER II LCM

PRODUCTION	Lead		9895	1850 3	1217	1.22	14.5	1488	15	Class H	none
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**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** BELL LAKE UNIT SOUTH

**Well Number:** 105H

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

**Describe the mud monitoring system utilized:** PVT/Totco/Visual Monitoring

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1245	OTHER : Freshwater	8.4	8.9							
1245	5250	OTHER : Brine	9.8	10.2							
5250	1850 3	WATER-BASED MUD	8.7	9.3							

### Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

top of cement on production casing will be determined by calculation or circulating cement to surface

**List of open and cased hole logs run in the well:**

MUD LOG/GEOLOGICAL LITHOLOGY LOG,GAMMA RAY LOG,DIRECTIONAL SURVEY,

**Coring operation description for the well:**

none planned

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** BELL LAKE UNIT SOUTH

**Well Number:** 105H

**Section 7 - Pressure**

**Anticipated Bottom Hole Pressure:** 4777

**Anticipated Surface Pressure:** 2477

**Anticipated Bottom Hole Temperature(F):** 180

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

D7\_H2S\_Contingency\_Plan\_S\_Pad\_4\_20250903121720.pdf

**Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

BELL\_LAKE\_UNIT\_SOUTH\_105H\_Plan\_2\_20250903121756.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

SBL\_Pad\_4R\_NGMP\_20250903121801.pdf

Drilling\_Plan\_3\_String\_\_\_Tapered\_v3\_4R\_BLUS\_105H\_20250903121808.pdf

**Other Variance request(s)?:** N

**Other Variance attachment:**



# **KAISER FRANCIS OIL CO.**

**LEA COUNTY, N.M. BLUS**

**SEC 1-T24S-R33E**

**BELL LAKE UNIT SOUTH 105H**

**Wellbore #1**

**Plan: Plan 2**

## **Standard Planning Report**

**15 August, 2025**

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

<b>Project</b>	LEA COUNTY, N.M. BLUS		
<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>	SEC 1-T24S-R33E				
<b>Site Position:</b>		<b>Northing:</b>	454,471.46 usft	<b>Latitude:</b>	32.24685137
<b>From:</b>	Map	<b>Easting:</b>	790,296.31 usft	<b>Longitude:</b>	-103.52805600
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	BELL LAKE UNIT SOUTH 105H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	454,551.00 usft	<b>Latitude:</b>	32.24702942
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	792,257.00 usft	<b>Longitude:</b>	-103.52171259
<b>Position Uncertainty</b>		0.50 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,630.00 usft
<b>Grid Convergence:</b>	0.43 °					

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM CURRENT	7/8/2025	6.19	59.79	47,229.70000000

<b>Design</b>	Plan 2				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<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	180.00	

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/15/2025			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	18,503.45 Plan 2 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,583.84	9.68	341.64	5,581.54	38.69	-12.84	2.00	2.00	0.00	341.64	
6,534.28	9.68	341.64	6,518.46	190.31	-63.16	0.00	0.00	0.00	0.00	
7,018.12	0.00	0.00	7,000.00	229.00	-76.00	2.00	-2.00	0.00	180.00	
9,895.16	0.00	0.00	9,877.04	229.00	-76.00	0.00	0.00	0.00	0.00	
10,795.16	90.00	179.55	10,450.00	-343.94	-71.50	10.00	10.00	19.95	179.55	
18,503.45	90.00	179.55	10,450.00	-8,052.00	-11.00	0.00	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,800.00	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
5,200.00	2.00	341.64	5,199.98	1.66	-0.55	-1.66	2.00	2.00	0.00



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.00	4.00	341.64	5,299.84	6.62	-2.20	-6.62	2.00	2.00	0.00	
5,400.00	6.00	341.64	5,399.45	14.89	-4.94	-14.89	2.00	2.00	0.00	
5,500.00	8.00	341.64	5,498.70	26.46	-8.78	-26.46	2.00	2.00	0.00	
5,583.84	9.68	341.64	5,581.54	38.69	-12.84	-38.69	2.00	2.00	0.00	
<b>Start 950.44 hold at 5583.84 MD</b>										
5,600.00	9.68	341.64	5,597.47	41.26	-13.69	-41.26	0.00	0.00	0.00	
5,700.00	9.68	341.64	5,696.05	57.22	-18.99	-57.22	0.00	0.00	0.00	
5,800.00	9.68	341.64	5,794.63	73.17	-24.28	-73.17	0.00	0.00	0.00	
5,900.00	9.68	341.64	5,893.20	89.12	-29.58	-89.12	0.00	0.00	0.00	
6,000.00	9.68	341.64	5,991.78	105.08	-34.87	-105.08	0.00	0.00	0.00	
6,100.00	9.68	341.64	6,090.36	121.03	-40.17	-121.03	0.00	0.00	0.00	
6,200.00	9.68	341.64	6,188.94	136.98	-45.46	-136.98	0.00	0.00	0.00	
6,300.00	9.68	341.64	6,287.51	152.94	-50.76	-152.94	0.00	0.00	0.00	
6,400.00	9.68	341.64	6,386.09	168.89	-56.05	-168.89	0.00	0.00	0.00	
6,500.00	9.68	341.64	6,484.67	184.85	-61.35	-184.85	0.00	0.00	0.00	
6,534.28	9.68	341.64	6,518.46	190.31	-63.16	-190.31	0.00	0.00	0.00	
<b>Start Drop -2.00</b>										
6,600.00	8.36	341.64	6,583.37	200.09	-66.41	-200.09	2.00	-2.00	0.00	
6,700.00	6.36	341.64	6,682.54	212.25	-70.44	-212.25	2.00	-2.00	0.00	
6,800.00	4.36	341.64	6,782.09	221.12	-73.39	-221.12	2.00	-2.00	0.00	
6,900.00	2.36	341.64	6,881.92	226.69	-75.23	-226.69	2.00	-2.00	0.00	
7,000.00	0.36	341.64	6,981.88	228.95	-75.98	-228.95	2.00	-2.00	0.00	
7,018.12	0.00	0.00	7,000.00	229.00	-76.00	-229.00	2.00	-2.00	0.00	
<b>Start 2877.04 hold at 7018.12 MD</b>										
7,100.00	0.00	0.00	7,081.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,181.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,281.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,381.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,481.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,581.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,681.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,781.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,881.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,981.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,081.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,181.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,281.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,381.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,481.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,581.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,681.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,781.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,881.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,981.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,081.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,181.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,281.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,381.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,481.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,581.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,681.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,781.88	229.00	-76.00	-229.00	0.00	0.00	0.00	
9,895.16	0.00	0.00	9,877.04	229.00	-76.00	-229.00	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
<b>Start DLS 10.00 TFO 179.55</b>										
9,900.00	0.48	179.55	9,881.88	228.98	-76.00	-228.98	10.00	10.00	0.00	
9,950.00	5.48	179.55	9,931.80	226.38	-75.98	-226.38	10.00	10.00	0.00	
10,000.00	10.48	179.55	9,981.30	219.43	-75.92	-219.43	10.00	10.00	0.00	
10,050.00	15.48	179.55	10,030.01	208.20	-75.84	-208.20	10.00	10.00	0.00	
10,100.00	20.48	179.55	10,077.55	192.77	-75.72	-192.77	10.00	10.00	0.00	
10,150.00	25.48	179.55	10,123.56	173.25	-75.56	-173.25	10.00	10.00	0.00	
10,200.00	30.48	179.55	10,167.70	149.80	-75.38	-149.80	10.00	10.00	0.00	
10,250.00	35.48	179.55	10,209.63	122.59	-75.16	-122.59	10.00	10.00	0.00	
10,300.00	40.48	179.55	10,249.03	91.83	-74.92	-91.83	10.00	10.00	0.00	
10,350.00	45.48	179.55	10,285.59	57.75	-74.66	-57.75	10.00	10.00	0.00	
10,400.00	50.48	179.55	10,319.05	20.62	-74.36	-20.62	10.00	10.00	0.00	
10,450.00	55.48	179.55	10,349.14	-19.29	-74.05	19.29	10.00	10.00	0.00	
10,500.00	60.48	179.55	10,375.64	-61.67	-73.72	61.67	10.00	10.00	0.00	
10,550.00	65.48	179.55	10,398.34	-106.20	-73.37	106.20	10.00	10.00	0.00	
10,600.00	70.48	179.55	10,417.08	-152.54	-73.01	152.54	10.00	10.00	0.00	
10,650.00	75.48	179.55	10,431.71	-200.34	-72.63	200.34	10.00	10.00	0.00	
10,700.00	80.48	179.55	10,442.11	-249.22	-72.25	249.22	10.00	10.00	0.00	
10,750.00	85.48	179.55	10,448.22	-298.83	-71.86	298.83	10.00	10.00	0.00	
10,795.16	90.00	179.55	10,450.00	-343.94	-71.50	343.94	10.00	10.00	0.00	
<b>Start 7708.30 hold at 10795.16 MD</b>										
10,800.00	90.00	179.55	10,450.00	-348.78	-71.46	348.78	0.00	0.00	0.00	
10,900.00	90.00	179.55	10,450.00	-448.78	-70.68	448.78	0.00	0.00	0.00	
11,000.00	90.00	179.55	10,450.00	-548.78	-69.90	548.78	0.00	0.00	0.00	
11,100.00	90.00	179.55	10,450.00	-648.77	-69.11	648.77	0.00	0.00	0.00	
11,200.00	90.00	179.55	10,450.00	-748.77	-68.33	748.77	0.00	0.00	0.00	
11,300.00	90.00	179.55	10,450.00	-848.77	-67.54	848.77	0.00	0.00	0.00	
11,400.00	90.00	179.55	10,450.00	-948.76	-66.76	948.76	0.00	0.00	0.00	
11,500.00	90.00	179.55	10,450.00	-1,048.76	-65.97	1,048.76	0.00	0.00	0.00	
11,600.00	90.00	179.55	10,450.00	-1,148.76	-65.19	1,148.76	0.00	0.00	0.00	
11,700.00	90.00	179.55	10,450.00	-1,248.76	-64.40	1,248.76	0.00	0.00	0.00	
11,800.00	90.00	179.55	10,450.00	-1,348.75	-63.62	1,348.75	0.00	0.00	0.00	
11,900.00	90.00	179.55	10,450.00	-1,448.75	-62.83	1,448.75	0.00	0.00	0.00	
12,000.00	90.00	179.55	10,450.00	-1,548.75	-62.05	1,548.75	0.00	0.00	0.00	
12,100.00	90.00	179.55	10,450.00	-1,648.74	-61.26	1,648.74	0.00	0.00	0.00	
12,200.00	90.00	179.55	10,450.00	-1,748.74	-60.48	1,748.74	0.00	0.00	0.00	
12,300.00	90.00	179.55	10,450.00	-1,848.74	-59.69	1,848.74	0.00	0.00	0.00	
12,400.00	90.00	179.55	10,450.00	-1,948.73	-58.91	1,948.73	0.00	0.00	0.00	
12,500.00	90.00	179.55	10,450.00	-2,048.73	-58.12	2,048.73	0.00	0.00	0.00	
12,600.00	90.00	179.55	10,450.00	-2,148.73	-57.34	2,148.73	0.00	0.00	0.00	
12,700.00	90.00	179.55	10,450.00	-2,248.72	-56.55	2,248.72	0.00	0.00	0.00	
12,800.00	90.00	179.55	10,450.00	-2,348.72	-55.77	2,348.72	0.00	0.00	0.00	
12,900.00	90.00	179.55	10,450.00	-2,448.72	-54.98	2,448.72	0.00	0.00	0.00	
13,000.00	90.00	179.55	10,450.00	-2,548.72	-54.20	2,548.72	0.00	0.00	0.00	
13,100.00	90.00	179.55	10,450.00	-2,648.71	-53.41	2,648.71	0.00	0.00	0.00	
13,200.00	90.00	179.55	10,450.00	-2,748.71	-52.63	2,748.71	0.00	0.00	0.00	
13,300.00	90.00	179.55	10,450.00	-2,848.71	-51.84	2,848.71	0.00	0.00	0.00	
13,400.00	90.00	179.55	10,450.00	-2,948.70	-51.06	2,948.70	0.00	0.00	0.00	
13,500.00	90.00	179.55	10,450.00	-3,048.70	-50.27	3,048.70	0.00	0.00	0.00	
13,600.00	90.00	179.55	10,450.00	-3,148.70	-49.49	3,148.70	0.00	0.00	0.00	
13,700.00	90.00	179.55	10,450.00	-3,248.69	-48.70	3,248.69	0.00	0.00	0.00	
13,800.00	90.00	179.55	10,450.00	-3,348.69	-47.92	3,348.69	0.00	0.00	0.00	
13,900.00	90.00	179.55	10,450.00	-3,448.69	-47.13	3,448.69	0.00	0.00	0.00	
14,000.00	90.00	179.55	10,450.00	-3,548.68	-46.35	3,548.68	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.00	90.00	179.55	10,450.00	-3,648.68	-45.56	3,648.68	0.00	0.00	0.00
14,200.00	90.00	179.55	10,450.00	-3,748.68	-44.78	3,748.68	0.00	0.00	0.00
14,300.00	90.00	179.55	10,450.00	-3,848.68	-43.99	3,848.68	0.00	0.00	0.00
14,400.00	90.00	179.55	10,450.00	-3,948.67	-43.21	3,948.67	0.00	0.00	0.00
14,500.00	90.00	179.55	10,450.00	-4,048.67	-42.42	4,048.67	0.00	0.00	0.00
14,600.00	90.00	179.55	10,450.00	-4,148.67	-41.64	4,148.67	0.00	0.00	0.00
14,700.00	90.00	179.55	10,450.00	-4,248.66	-40.85	4,248.66	0.00	0.00	0.00
14,800.00	90.00	179.55	10,450.00	-4,348.66	-40.07	4,348.66	0.00	0.00	0.00
14,900.00	90.00	179.55	10,450.00	-4,448.66	-39.28	4,448.66	0.00	0.00	0.00
15,000.00	90.00	179.55	10,450.00	-4,548.65	-38.50	4,548.65	0.00	0.00	0.00
15,100.00	90.00	179.55	10,450.00	-4,648.65	-37.71	4,648.65	0.00	0.00	0.00
15,200.00	90.00	179.55	10,450.00	-4,748.65	-36.93	4,748.65	0.00	0.00	0.00
15,300.00	90.00	179.55	10,450.00	-4,848.64	-36.14	4,848.64	0.00	0.00	0.00
15,400.00	90.00	179.55	10,450.00	-4,948.64	-35.36	4,948.64	0.00	0.00	0.00
15,500.00	90.00	179.55	10,450.00	-5,048.64	-34.57	5,048.64	0.00	0.00	0.00
15,600.00	90.00	179.55	10,450.00	-5,148.64	-33.79	5,148.64	0.00	0.00	0.00
15,700.00	90.00	179.55	10,450.00	-5,248.63	-33.00	5,248.63	0.00	0.00	0.00
15,800.00	90.00	179.55	10,450.00	-5,348.63	-32.22	5,348.63	0.00	0.00	0.00
15,900.00	90.00	179.55	10,450.00	-5,448.63	-31.43	5,448.63	0.00	0.00	0.00
16,000.00	90.00	179.55	10,450.00	-5,548.62	-30.65	5,548.62	0.00	0.00	0.00
16,100.00	90.00	179.55	10,450.00	-5,648.62	-29.86	5,648.62	0.00	0.00	0.00
16,200.00	90.00	179.55	10,450.00	-5,748.62	-29.08	5,748.62	0.00	0.00	0.00
16,300.00	90.00	179.55	10,450.00	-5,848.61	-28.30	5,848.61	0.00	0.00	0.00
16,400.00	90.00	179.55	10,450.00	-5,948.61	-27.51	5,948.61	0.00	0.00	0.00
16,500.00	90.00	179.55	10,450.00	-6,048.61	-26.73	6,048.61	0.00	0.00	0.00
16,600.00	90.00	179.55	10,450.00	-6,148.60	-25.94	6,148.60	0.00	0.00	0.00
16,700.00	90.00	179.55	10,450.00	-6,248.60	-25.16	6,248.60	0.00	0.00	0.00
16,800.00	90.00	179.55	10,450.00	-6,348.60	-24.37	6,348.60	0.00	0.00	0.00
16,900.00	90.00	179.55	10,450.00	-6,448.60	-23.59	6,448.60	0.00	0.00	0.00
17,000.00	90.00	179.55	10,450.00	-6,548.59	-22.80	6,548.59	0.00	0.00	0.00
17,100.00	90.00	179.55	10,450.00	-6,648.59	-22.02	6,648.59	0.00	0.00	0.00
17,200.00	90.00	179.55	10,450.00	-6,748.59	-21.23	6,748.59	0.00	0.00	0.00
17,300.00	90.00	179.55	10,450.00	-6,848.58	-20.45	6,848.58	0.00	0.00	0.00
17,400.00	90.00	179.55	10,450.00	-6,948.58	-19.66	6,948.58	0.00	0.00	0.00
17,500.00	90.00	179.55	10,450.00	-7,048.58	-18.88	7,048.58	0.00	0.00	0.00
17,600.00	90.00	179.55	10,450.00	-7,148.57	-18.09	7,148.57	0.00	0.00	0.00
17,700.00	90.00	179.55	10,450.00	-7,248.57	-17.31	7,248.57	0.00	0.00	0.00
17,800.00	90.00	179.55	10,450.00	-7,348.57	-16.52	7,348.57	0.00	0.00	0.00
17,900.00	90.00	179.55	10,450.00	-7,448.56	-15.74	7,448.56	0.00	0.00	0.00
18,000.00	90.00	179.55	10,450.00	-7,548.56	-14.95	7,548.56	0.00	0.00	0.00
18,100.00	90.00	179.55	10,450.00	-7,648.56	-14.17	7,648.56	0.00	0.00	0.00
18,200.00	90.00	179.55	10,450.00	-7,748.56	-13.38	7,748.56	0.00	0.00	0.00
18,300.00	90.00	179.55	10,450.00	-7,848.55	-12.60	7,848.55	0.00	0.00	0.00
18,400.00	90.00	179.55	10,450.00	-7,948.55	-11.81	7,948.55	0.00	0.00	0.00
18,503.45	90.00	179.55	10,450.00	-8,052.00	-11.00	8,052.00	0.00	0.00	0.00
<b>TD at 18503.45</b>									



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BELL LAKE UNIT SOUTH 105H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Project:</b>	LEA COUNTY, N.M. BLUS	<b>MD Reference:</b>	RKB 25' + GL 3630 @ 3655.00usft
<b>Site:</b>	SEC 1-T24S-R33E	<b>North Reference:</b>	Grid
<b>Well:</b>	BELL LAKE UNIT SOUTH 105H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BLUS 105H KOP (2251' - plan hits target center - Point	0.00	0.00	8,000.00	229.00	-76.00	454,780.00	792,181.00	32.24766043	-103.52195280
BLUS 105H LTP (100' F: - plan misses target center by 28.46usft at 18400.00usft MD (10450.00 TVD, -7948.55 N, -11.81 E) - Point	0.00	0.01	10,450.00	-7,977.00	-11.00	446,574.00	792,246.00	32.22510387	-103.52194307
BLUS 105H PBHL (25' F - plan hits target center - Point	0.00	0.00	10,450.00	-8,052.00	-11.00	446,499.00	792,246.00	32.22489772	-103.52194490
BLUS 105H FTP (2450' - plan misses target center by 0.50usft at 10795.21usft MD (10450.00 TVD, -344.00 N, -71.50 E) - Point	0.00	0.01	10,450.00	-344.00	-72.00	454,207.00	792,185.00	32.24608539	-103.52195387

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)		
5,100.00	5,100.00	0.00	0.00	Start Build 2.00	
5,583.84	5,581.54	38.69	-12.84	Start 950.44 hold at 5583.84 MD	
6,534.28	6,518.46	190.31	-63.16	Start Drop -2.00	
7,018.12	7,000.00	229.00	-76.00	Start 2877.04 hold at 7018.12 MD	
9,895.16	9,877.04	229.00	-76.00	Start DLS 10.00 TFO 179.55	
10,795.16	10,450.00	-343.94	-71.50	Start 7708.30 hold at 10795.16 MD	
18,503.45	10,450.00	-8,052.00	-11.00	TD at 18503.45	

**KAISER-FRANCIS OIL COMPANY  
HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN  
FOR DRILLING/COMPLETION WORKOVER/FACILITY**

**BLUS 105H, 605H, 704H  
SECTION 1 -T24S-R33E  
LEA COUNTY, NM**

This well/facility is not expected to have H<sub>2</sub>S, but due to the sensitive location, the following is submitted as requested.

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Emergency Response Activation and General Responsibilities	3
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## **EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES**

### Activation of the Emergency Action Plan

In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections below for further responsibilities:

1. Notify the senior ranking contract representative on site.
2. Notify Kaiser-Francis representative in charge.
3. Notify civil authorities if the Kaiser-Francis Representative cannot be contacted and the situation dictates.
4. Perform rescue and first aid as required (without jeopardizing additional personnel).

### General Responsibilities

In the event of an H<sub>2</sub>S emergency, the following plan will be initiated.

- 1) All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 2) If for any reason a person must enter the hazardous area, they must wear a SCBA (Self contained breathing apparatus).
- 3) Always use the "buddy system".
- 4) Isolate the well/problem if possible.
- 5) Account for all personnel
- 6) Display the proper colors, warning all unsuspecting personnel of the danger at hand
- 7) Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed)

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of emergency response agencies and residents.

### **INDIVIDUAL RESPONSIBILITIES DURING AN H<sub>2</sub>S RELEASE**

The following procedures and responsibilities will be implemented on activation of the H<sub>2</sub>S siren and lights.

#### **All Personnel:**

1. On alarm, don escape unit (if available) and report to upwind briefing area.

#### **Rig Manager/Tool Pusher:**

1. Check that all personnel are accounted for and their condition.
2. Administer or arrange for first aid treatment, and/or call EMTs as needed.
3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
4. Notify Contract management and Kaiser-Francis Representative.
5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

#### **Two People Responsible for Shut-in and Rescue:**

1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
2. Utilize the buddy system to secure well and perform rescue(s).
3. Return to the briefing area and stand by for further instructions.

#### **All Other Personnel:**

1. Isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

#### **Kaiser-Francis Oil Company Representative:**

1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
2. Notify company management or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

**PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

The decision to ignite a well should be a last resort and one if not both of the following pertain.

- 1) Human life and/or property are in danger.
- 2) There is no hope of bringing the situation under control with the prevailing conditions at the site.

**INSTRUCTIONS FOR IGNITION:**

- 1) Two people are required. They must be equipped with positive pressure; self contained breathing apparatus and a "D"-ring style, full body, OSHA approved safety harness. Non-flammable rope will be attached.
- 2) One of the people will be a qualified safety person who will test the atmosphere for H<sub>2</sub>S, Oxygen, & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3) Ignite up-wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25mm flare gun shall be used, with a +/-500' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions & procedures as before.

**CONTACTING AUTHORITIES**

Kaiser-Francis personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. This response plan must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER).

EMERGENCY CALL LIST: (Start and continue until ONE of these people have been reached)

	<u>OFFICE</u>	<u>MOBILE</u>
Kaiser-Francis Oil Co.	918/494-0000	
Jeremy Parent	575-964-6256	580-504-2593
David Zerger	918/491-4350	918/557-6708
Aaron Daniels	918-491-4352	918-891-5199
Matt Warner	918/491-4201	720-556-2313

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

State Police – Artesia	575/748-9718
State Police – Hobbs	575/392-5580
State Police – Carlsbad	575/885-3138
Lea County Sheriff - Lovington	575/396-3611
Local Emergency Planning Center – Lea County	575/396-8607
Local Emergency Planning Center – Eddy County	575/885-3581
Fire Fighting, Rescue & Ambulance – Carlsbad	911 or 575/885-3125
Fire Fighting, Rescue & Ambulance – Hobbs	911 or 575/397-9308
Fire Fighting – Jal Volunteer Fire Department	911 or 505/395-2221
New Mexico Oil & Gas Commission – Artesia	575/748-1283
New Mexico Oil & Gas Commission – Hobbs	575/393-6161
Air Medical Transport Services – Hobbs	800/550-1025
Med Flight Air Ambulance – Albuquerque	505/842-4433
Angel MedFlight	844/553-9033
Cudd	800-990-2833
Wild Well Control	281-784-4700

**PROTECTION OF THE GENERAL PUBLIC/ROE:**

In the event of a release with a concentration greater than 100 ppm H<sub>2</sub>S, the ROE (Radius of Exposure) calculations will be done to determine if the following conditions have been met:

- Does the 100 ppm ROE include any public area (any place not associated with this site)
- Does the 500 ppm ROE include any public road (any road which the general public may travel)
- Is the 100 ppm ROE equal to or greater than 3000 feet

If any one of these conditions have been met then the Contingency Plan will be implemented. The following shows how to calculate the radius of exposure and an example.

**Calculation for the 100 ppm ROE:**

$$X = [(1.589)(\text{concentration})(Q)]^{(0.6258)}$$

(H<sub>2</sub>S concentrations in decimal form)

10,000 ppm +=1.+

1,000 ppm +=.1+

100 ppm +=.01+

10 ppm +=.001+

**Calculation for the 500 ppm ROE:**

$$X+[(0.4546)(\text{concentration})(Q)]^{(.06258)}$$

EXAMPLE: If a well/facility has been determined to have 150 ppm H<sub>2</sub>S in the gas mixture and the well/facility is producing at a gas rate of 200 MCFPD then:

ROE for 100 PPM       $X=[(1.589)(.0150)(200)]^{(0.6258)}$

$X=2.65'$

ROE for 500 PPM       $X=[(.4546)(.0150)(200)]^{(0.6258)}$

$X=1.2'$

(These calculations will be forwarded to the appropriate District NMOCD office when applicable.)

**PUBLIC EVACUATION PLAN:**

(When the supervisor has determined that the General Public will be involved, the following plan will be implemented)

- 1) Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.
- 2) A trained person in H<sub>2</sub>S safety, shall monitor with detection equipment the H<sub>2</sub>S Concentration, wind and area of exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. **(All monitoring equipment will be UL approved, for use in class I groups A,B,C & D, Division I, hazardous locations. All monitors will have a minimum capability of measuring H<sub>2</sub>S, oxygen, and flammable values.)**
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 4) The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

**CHARACTERISTICS OF H<sub>2</sub>S AND SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

**TRAINING:**

All responders must have training in the detection of H<sub>2</sub>S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H<sub>2</sub>S monitors at all times.

**PUBLIC RELATIONS**

Kaiser-Francis recognizes that the news media have a legitimate interest in incidents at Kaiser-Francis facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Kaiser-Francis employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

<b>Well Name:</b> BELL LAKE UNIT SOUTH	<b>Well Location:</b> T24S / R33E / SEC 1 / SENE / 32.2470299 / -103.5217137	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 105H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC063798	<b>Unit or CA Name:</b> BELL LAKE-INT. BONE SPRING FMN	<b>Unit or CA Number:</b> NMNM68292H
<b>US Well Number:</b>	<b>Operator:</b> KAISER FRANCIS OIL COMPANY	

**Notice of Intent**

**Sundry ID:** 2884775

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 12/02/2025

**Time Sundry Submitted:** 09:07

**Date proposed operation will begin:** 12/02/2025

**Procedure Description:** Kaiser-Francis Oil Company requests to rename APD ID 10400106746 to adhere to NMOCD naming conventions. Current Well Name: Bell Lake Unit South 105H Requested Well Name: Bell Lake South Unit 105H

**NOI Attachments**

**Procedure Description**

NMOCD\_C\_102\_Name\_Change\_Plat\_BLSU\_105H\_20251202090740.pdf

**Well Name:** BELL LAKE UNIT SOUTH

**Well Location:** T24S / R33E / SEC 1 / SENE / 32.2470299 / -103.5217137

**County or Parish/State:** LEA / NM

**Well Number:** 105H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC063798

**Unit or CA Name:** BELL LAKE-INT. BONE SPRING FMN

**Unit or CA Number:** NMNM68292H

**US Well Number:**

**Operator:** KAISER FRANCIS OIL COMPANY

**Operator**

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** CHRISTINA OPFER

**Signed on:** DEC 02, 2025 09:07 AM

**Name:** KAISER FRANCIS OIL COMPANY

**Title:** Regulatory Manager

**Street Address:** 6733 S YALE AVENUE

**City:** TULSA

**State:** OK

**Phone:** (918) 491-4468

**Email address:** CHRISTINAO@KFOC.NET

**Field**

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** TENILLE C MOLINA

**BLM POC Title:** Land Law Examiner

**BLM POC Phone:** 5752342224

**BLM POC Email Address:** TCMOLINA@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 12/03/2025

**Signature:** For: Cody Layton Assistant Field Manager

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.	NMLC063798
6. If Indian, Allottee or Tribe Name	

**SUBMIT IN TRIPLICATE** - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. BELL LAKE-INT. BONE SPRING FMN/NMNM68292H
2. Name of Operator KAISER FRANCIS OIL COMPANY		8. Well Name and No. BELL LAKE UNIT SOUTH/105H
3a. Address 6733 S. Yale Ave., Tulsa, OK 74121	3b. Phone No. (include area code) (918) 491-0000	9. API Well No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 1/T24S/R33E/NMP		10. Field and Pool or Exploratory Area BELL LAKE/BONE SPRING, SOUTH
		11. Country or Parish, State LEA/NM

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

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

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

Kaiser-Francis Oil Company requests to rename APD ID 10400106746 to adhere to NMOCD naming conventions.

Current Well Name: Bell Lake Unit South 105H

Requested Well Name: Bell Lake South Unit 105H

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CHRISTINA OPFER / Ph: (918) 491-4468	Title Regulatory Manager
Signature (Electronic Submission)	Date 12/02/2025

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

Approved by TENILLE C MOLINA / Ph: (575) 234-2224 / Approved	Title Land Law Examiner	Date 12/03/2025
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CARLSBAD

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: SENE / 2480 FNL / 1296 FEL / TWSP: 24S / RANGE: 33E / SECTION: 1 / LAT: 32.2470299 / LONG: -103.5217137 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 2450 FSL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 1 / LAT: 32.2460853 / LONG: -103.5219527 ( TVD: 10450 feet, MD: 10795 feet )

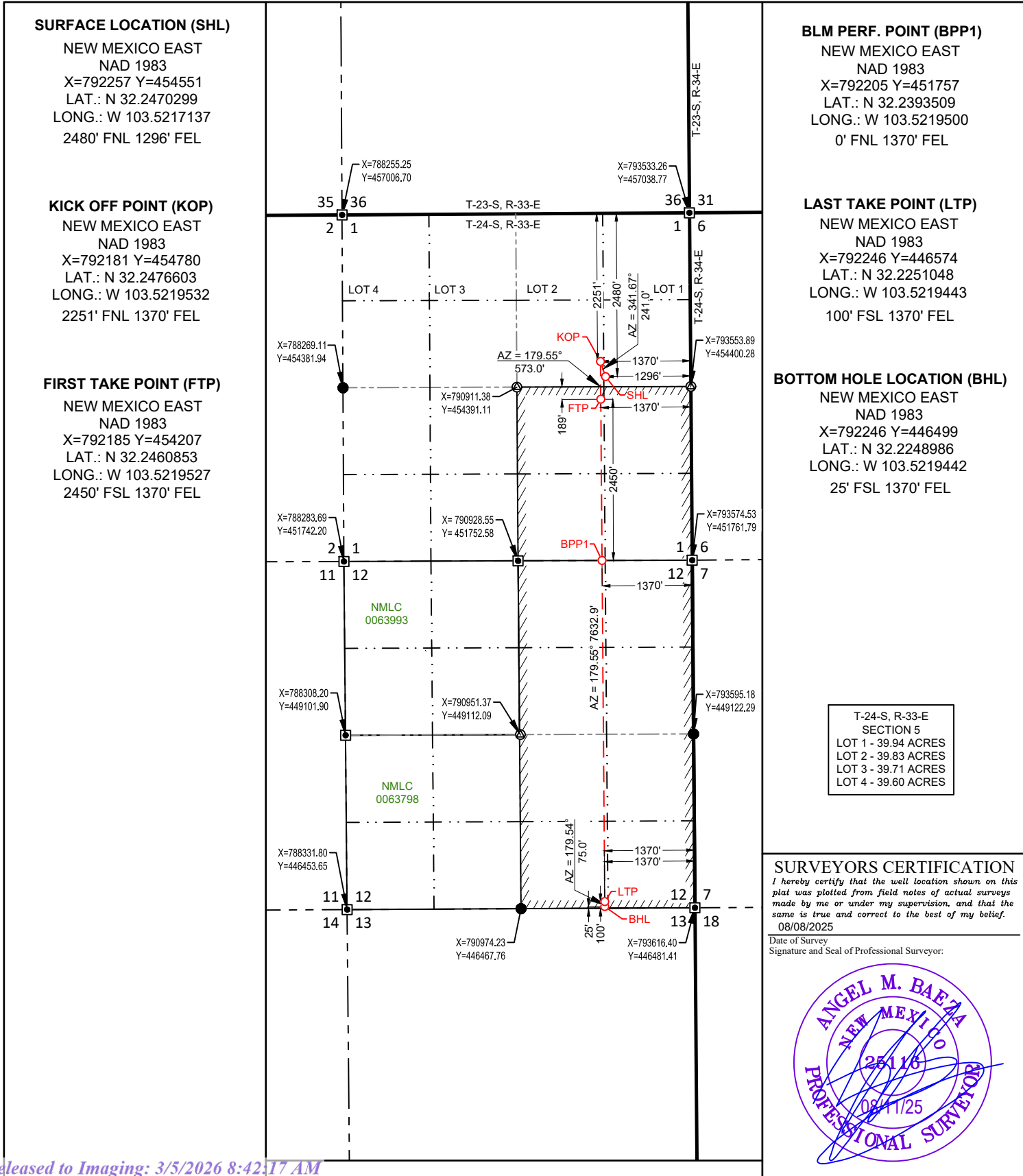
PPP: NWNE / 0 FNL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 12 / LAT: 32.2393509 / LONG: -103.52195 ( TVD: 10450 feet, MD: 13245 feet )

BHL: SWSE / 25 FSL / 1370 FEL / TWSP: 24S / RANGE: 33E / SECTION: 12 / LAT: 32.2248986 / LONG: -103.5219442 ( TVD: 10450 feet, MD: 18503 feet )

CONFIDENTIAL



<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico <b>Energy, Minerals &amp; Natural Resources Department</b> <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
		Submittal Type: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
Property Name and Well Number <b>BELL LAKE SOUTH UNIT 105H</b>		



C:\SURVEY\WASER\_FRANCISCO\_P\OIL\_CONSERVATION\PRODUCTS\OIL\_CONSERVATION\BELL\_LAKE\_SOUTH\_UNIT\_105H\_BPP1.dwg D:\CONVERT\11/2025/3/27 AM

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 534533

**ACKNOWLEDGMENTS**

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468	OGRID: 12361
	Action Number: 534533
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 534533

**CONDITIONS**

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468	OGRID: 12361
	Action Number: 534533
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
christinaopf	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/12/2025
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	3/5/2026
jeffrey.harrison	Cement must be in place for at least 8 hours and achieve a minimum compressive strength of 500 psi before performing further operations on the well.	3/5/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/5/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	3/5/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/5/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/5/2026