| Form 3160-3 (June 2015) | FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 |
|---|---|
| UNITED STATES | |
| DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT | 5. Lease Serial No. |
| APPLICATION FOR PERMIT TO DRILL OR REENTER | 6. If Indian, Allotee or Tribe Name |
| ALL ELOANION FOR ELIMINATE OF THE ENTER | |
| 1a. Type of work: DRILL REENTER | 7. If Unit or CA Agreement, Name and No. |
| 1b. Type of Well: Gas Well Other | |
| 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zon | 8. Lease Name and Well No. |
| 11. Type of Completion Trydraunic Fracturing Single Zone Wuttiple Zon | [316706] |
| 2. Name of Operator [12361] | 9. API Well No. 30-025-50919 |
| 3a. Address 3b. Phone No. (include area | code) 10. Field and Pool, or Exploratory [98264] |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.*) | 11. Sec., T. R. M. or Blk. and Survey or Area |
| At surface | |
| At proposed prod. zone | |
| 14. Distance in miles and direction from nearest town or post office* | 12. County or Parish 13. State |
| 15. Distance from proposed* location to nearest property dries unit line if any) | 17. Spacing Unit dedicated to this well |
| (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 20. BLM/BIA Bond No. in file |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work v | will start* 23. Estimated duration |
| 24. Attachments | |
| The following, completed in accordance with the requirements of Onshore Oil and Gas Order N (as applicable) | No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 |
| 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator cere | |
| 25. Signature Name (Printed/Typed) | Date |
| Title | 1 |
| Approved by (Signature) Name (Printed/Typed) | Date |
| Title Office | |
| Application approval does not warrant or certify that the applicant holds legal or equitable title applicant to conduct operations thereon. Conditions of approval, if any, are attached. | to those rights in the subject lease which would entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person of the United States any false, fictitious or fraudulent statements or representations as to any magnetic statements. | |
| NGMP Rec 12/08/2022 | KZ |
| SL (Continued on page 2) | 01/04/2023 |
| SL androved with our | |
| (Continued on page 2) | *(Instructions on page 2) |

Released to Imaging: 1/4/2023 2:45:56 PM Approval Date: 12/18/2020

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District IIII</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

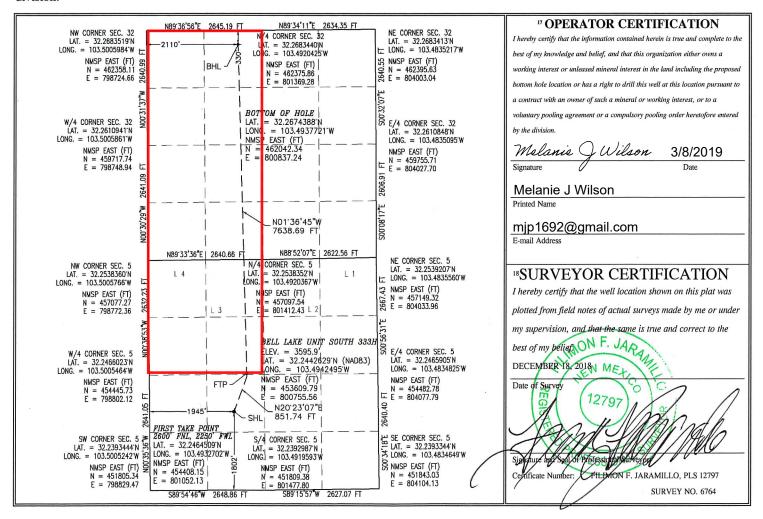
WELL LOCATION AND ACREAGE DEDICATION PLAT

| ¹ API Number 30-025- 509 | 19 | ² Pool Code 98264 | BELL LAKE; BONE SPRING, SO | UTH |
|--|----|---------------------------------|----------------------------|--------------------------|
| ⁴ Property Code | | ⁵ Pr | operty Name | ⁶ Well Number |
| 316706 | | BELL LAF | KE UNIT SOUTH | 333H |
| ⁷ OGRID No. | | 8 O _I | perator Name | ⁹ Elevation |
| 12361 | Ť | KAISER-F | RANCIS OIL CO. | 3595.9 |

Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-------------------|------------|--------------|---------------|----------|---------------|------------------|----------------|----------------|--------|
| -K = L | 5 | 24 S | 34 E | | 1802 | SOUTH | 1945 | WEST | LEA |
| - 3 | | | пB | ottom Ho | ole Location | If Different Fr | om Surface | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | East/West line | County | |
| C | 32 | 23 S | 34E | | 330 NORTH | | 2110 | WEST | LEA |
| 12 Dedicated Acre | s 13 Joint | or Infill 14 | Consolidation | 1 Code | | • | • | | |
| 480 | | | | 1 | | | | | |
| 3 | | | | | | | | | |

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.



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: KAISER FRANCIS OIL COMPANY

> LEASE NO.: NMLC0061374A

WELL NAME & NO.: **BELL LAKE UNIT SOUTH 333H**

SURFACE HOLE FOOTAGE: 1802'/S & 1945'/W **BOTTOM HOLE FOOTAGE** 330'/N & 2110'/W

> **LOCATION:** Section 5, T.24 S., R.34 E., NMPM

COUNTY: Lea County, New Mexico

COA

| H2S | O Yes | No | |
|----------------------|------------------|-----------------------------|---------------|
| Potash | None | Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | O High |
| Cave/Karst Potential | O Critical | | |
| Variance | O None | Flex Hose | Other |
| Wellhead | Conventional | • Multibowl | O Both |
| Other | □4 String Area | ☐Capitan Reef | □WIPP |
| Other | □Fluid Filled | ☐ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | □СОМ | ☑ Unit |

A. <u>HYDROGEN SULFIDE</u>

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 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 10-3/4 inch surface casing shall be set at approximately 910 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) 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. (This is to include the 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 **7-5/8** inch intermediate casing shall be set at approximately **11700 feet**. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- Excess cement calculates to less than 25%; More cement may be needed.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. 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).'

2. **BOP REQUIREMENTS**

Option 1:

a. 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.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 OOGO2.III.A.2.i must be followed.

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

Page 3 of 8

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)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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 intergrity 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-P 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
 - a. 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 when specified), 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).
- b. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

C. <u>DRILLING MUD</u>

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.

RI12092020

Page 11 of 73



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

Application Data Repor

APD ID: 10400039810

Submission Date: 03/11/2019

Highlighted data reflects the most

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 333H

recent changes

Well Name: BELL LAKE UNIT SOUTH

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400039810 Tie to previous NOS?

Submission Date: 03/11/2019

BLM Office: CARLSBAD

User: Melanie Wilson

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC0061374A

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? YES **Permitting Agent? NO**

APD Operator: KAISER FRANCIS OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Zip: 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa

State: OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BELL LAKE UNIT SOUTH

Well Number: 333H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BELL LAKE

Pool Name: WOLFCAMP,

SOUTH

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Page 1 of 3

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: 13

Well Class: HORIZONTAL SOUTH BELL LAKE UNIT

Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 19 Miles Distance to nearest well: 30 FT Distance to lease line: 695 FT

Reservoir well spacing assigned acres Measurement: 479.92 Acres

Well plat: BLUS_333H__Pymt_Rec_20190311124906.pdf

BLUS_333H__C102_20190819184420.pdf

Well work start Date: 07/01/2019 Duration: 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 6764 Reference Datum:

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|----------|---------|--------------|---------|--------------|------|-------|---------|-------------------|----------|-----------|--------|-------|----------|------------|--------------|-----------|-----|-----|--|
| SHL | 180 | FSL | 194 | FW | 24S | 34E | 5 | Aliquot | 32.24426 | - | LEA | NEW | NEW | F | NMLC0 | 359 | 0 | 0 | |
| Leg | 2 | | 5 | L | | | | NESW | 29 | 103.4942 | | MEXI | MEXI | | 061374 | 6 | | | |
| #1 | | | | | | | | | | 495 | | CO | CO | | A | | | | |
| KOP | 191 | FSL | 224 | FW | 24S | 34E | 5 | Aliquot | 32.24456 | - | LEA | NEW | NEW | F | NMLC0 | - | 112 | 111 | |
| Leg | 3 | | 2 | L | | | | NESW | | 103.4932 | | MEXI | | | 061374 | 759 | 10 | 94 | |
| #1 | | | | | | | | | | 87 | | CO | СО | | Α | 8 | | | |

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|--------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------------|---------------|-----------|-----------|---|
| PPP Leg #1-1 | 0 | FNL | 211 0 | FW L | 24S | 34E | | Aliquot SESW | 32.25237 8 | - 103.4920 501 | LEA | NEW MEXI CO | NEW MEXI CO | S | STATE | - 823 0 | 148 85 | 118 26 | |
| PPP Leg #1-2 | 132 0 | FNL | 211 0 | FW L | 24S | 34E | | Aliquot NENW | 32.24997 2 | - 103.4936 9 | LEA | NEW MEXI CO | NEW MEXI CO | | NMNM 000233 5B | - 823 0 | 135 65 | 118 26 | |
| PPP Leg #1-3 | 260 0 | FNL | 225 0 | FW L | 24S | 34E | _ | Aliquot SENW | 32.24645 09 | - 103.4932 702 | LEA | NEW MEXI CO | NEW MEXI CO | | NMLC0 061374 A | - 823 0 | 122 85 | 118 26 | |
| EXIT Leg #1 | 330 | FNL | 211 0 | FW L | 23S | 34E | | Aliquot NENW | 32.26743 88 | - 103.4937 721 | LEA | NEW MEXI CO | NEW MEXI CO | S | STATE | - 823 0 | 199 22 | 118 26 | |
| BHL Leg #1 | 330 | FNL | 211 0 | FW L | 23S | 34E | _ | Aliquot NENW | 32.26743 88 | - 103.4937 721 | LEA | 1 | NEW MEXI CO | S | STATE | - 823 0 | 199 22 | 118 26 | |



Receipt

Tracking Information

Pay.gov Tracking ID: 26G0NDQA

Agency Tracking ID: 75699614366

Form Name: Bureau of Land Management (BLM) Application for Permit to Drill (APD) Fee

Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Debit or credit card

Payment Amount: \$10,050.00

Transaction Date: 03/11/2019 02:48:18 PM EDT

Payment Date: 03/11/2019

Company: Kaiser-Francis Oil Company

APD IDs: 10400039810

Lease Numbers: NMLC0061374A

Well Numbers: 333H

Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

Account Information

Cardholder Name: GEORGE B KAISER

Card Type: Visa

Card Number: *********0061



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

Drilling Plan Data Report

01/08/2021

APD ID: 10400039810

Submission Date: 03/11/2019

Highlighted data reflects the most recent changes

Well Type: OIL WELL

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 333H Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

| ormation | | | True Vertical | Measured | | | Producing |
|----------|------------------|-----------|---------------|----------|-------------|-------------------|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | Formation |
| 414574 | | 3596 | 0 | 0 | | NONE | N |
| 414575 | RUSTLER | 2174 | 1422 | 1422 | | NONE | N |
| 414576 | SALADO | 1749 | 1847 | 1847 | | NONE | N |
| 414577 | TOP SALT | 1574 | 2022 | 2022 | | NONE | N |
| 414578 | BASE OF SALT | -1426 | 5022 | 5022 | | NONE | N |
| 414579 | LAMAR | -1626 | 5222 | 5222 | | NATURAL GAS, OIL | N |
| 414580 | BELL CANYON | -1826 | 5422 | 5422 | <u>'</u> | NATURAL GAS, OIL | N |
| 414581 | CHERRY CANYON | -2676 | 6272 | 6272 | | NATURAL GAS, OIL | N |
| 414582 | BRUSHY CANYON | -4151 | 7747 | 7747 | | NATURAL GAS, OIL | N |
| 414583 | BONE SPRING | -5291 | 8887 | 8887 | | NATURAL GAS, OIL | N |
| 414584 | AVALON SAND | -5483 | 9079 | 9079 | | NATURAL GAS, OIL | N |
| 414585 | BONE SPRING 1ST | -6526 | 10122 | 10122 | | NATURAL GAS, OIL | N |
| 414586 | BONE SPRING 2ND | -7061 | 10657 | 10657 | | NATURAL GAS, OIL | N |
| 414587 | BONE SPRING LIME | -7576 | 11172 | 11172 | | NATURAL GAS, OIL | Y |
| 414588 | BONE SPRING 3RD | -8056 | 11652 | 11652 | | NATURAL GAS, OIL | N |
| 414589 | WOLFCAMP | -8138 | 11735 | 11735 | | NATURAL GAS, OIL | N |

Section 2 - Blowout Prevention

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Pressure Rating (PSI): 5M Rating Depth: 18000

Equipment: A 10M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams and a blind ram. 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. Remote kill line (2' min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3" min) will be installed on the choke line, 3 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.

Requesting Variance? YES

Variance request: Flex Hose Variance

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher 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:

BLUS__333H__Choke_Manifold_2_20200826095907.pdf

BOP Diagram Attachment:

BLUS_333H_BOP_20190308134940.pdf

BLUS__333H__Wellhead_Diagram2_20200826095934.pdf

BLUS_333H__Flex_Hose_20200826100154.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 | 14.7 5 | 10.75 | NEW | API | N | 0 | 910 | 0 | 910 | | | 910 | J-55 | 40.5 | ST&C | 3.7 | 7.3 | DRY | 11.4 | DRY | 17.1 |
| 2 | INTERMED IATE | 9.87 5 | 7.625 | NEW | API | N | 0 | 11700 | 0 | 11700 | | | 11700 | HCP -110 | 29.7 | LT&C | 1.3 | 1.7 | DRY | 2.7 | DRY | 2.7 |
| 3 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 0 | 19922 | 0 | 11826 | | | 19922 | P- 110 | | OTHER - EAGLE SF | 1.4 | 1.6 | DRY | 2.5 | DRY | 2.6 |

Casing Attachments

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

| Casing . | Attach | ments |
|----------|--------|-------|
|----------|--------|-------|

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUS_333H_Casing_Assumptions_20190308135321.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUS_333H_Casing_Assumptions_20190308135623.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $BLUS_333H_Casing_Assumptions_20190308135736.pdf$

BLUS__333H__Casing_Specs_20190308135812.pdf

Section 4 - Cement

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

| String Type | Lead/Tail | Stage Tool Depth | Тор МD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-------------|
| SURFACE | Lead | | 0 | 910 | 590 | 1.34 | 14.8 | 506 | 50 | Premium C | Accelerator |

| INTERMEDIATE | Lead | 0 | 1170 0 | 1037 | 2.45 | 12 | 2031 | 25 | Premium C | Extender |
|--------------|------|-----------|-----------|------|------|------|------|----|-----------|-------------|
| INTERMEDIATE | Tail | 0 | 5200 | 391 | 1.34 | 14.8 | 418 | 25 | Premium C | Accelerator |
| PRODUCTION | Lead | 1100 0 | 1992 2 | 500 | 1.91 | 13.2 | 723 | 15 | Premium C | Retarder |

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 Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

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/Pason/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) | НА | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1100 0 | 1182 6 | OTHER : Oil Based Mud | 10 | 12 | | | | | | | |
| 910 | 1170 0 | OTHER : Diesel- Brine Emulsion | 8.8 | 9.2 | | | | | | | |
| 0 | 910 | OTHER : Fresh Water | 8.4 | 9 | | | | | | | |

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

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.

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

DS,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7379 Anticipated Surface Pressure: 4777.28

Anticipated Bottom Hole Temperature(F): 199

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BLUS__333H__Contingency_Plan_Pad_13_20190308140834.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUS_333H_Directional_Plan_Diagram_20190308141018.pdf

BLUS_333H__Directional_Plan_20190308141019.pdf

Other proposed operations facets description:

Gas Capture Plan attached

Other proposed operations facets attachment:

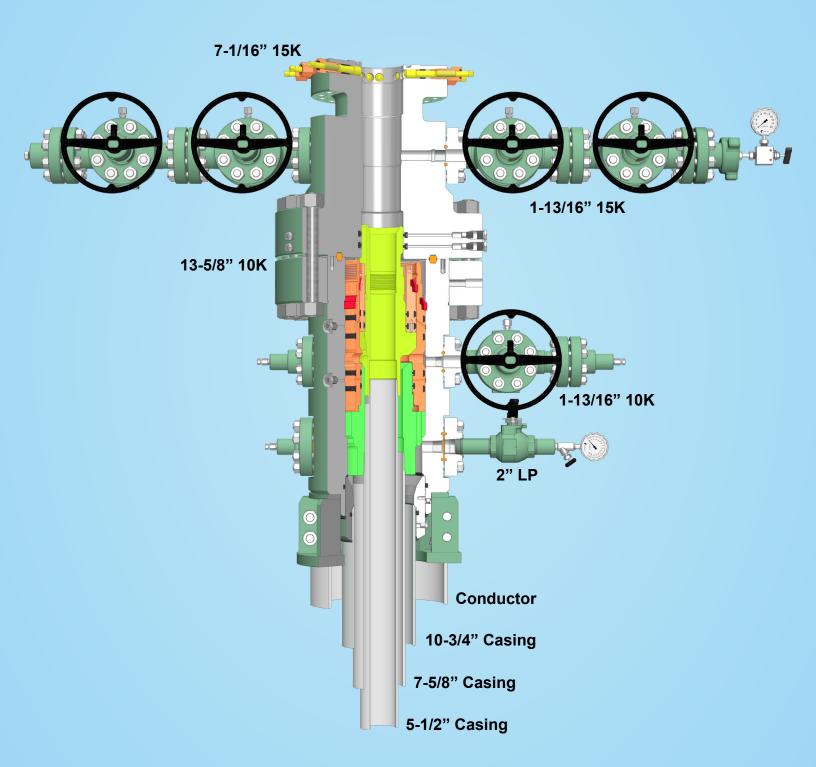
BLUS__333H__Gas_Capture_Plan_20190308141150.pdf

Other Variance attachment:

BLUS_333H_Flex_Hose_20190308141206.pdf



13-5/8" 10K MN-DS Wellhead



Kaiser-Francis Oil Company

1678248

KAISER-FRANCIS OIL COMPANY HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN FOR DRILLING/COMPLETION WORKOVER/FACILITY

BELL LAKE UNIT SOUTH Pad 13 SECTION 5 -T24S-R34E LEA COUNTY, NM

This well/facility is not expected to have H_2S , but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

| Effergency Response Activation and General Responsibilities | 3 |
|---|---|
| Individual Responsibilities During An H₂S Release | 4 |
| Procedure For Igniting An Uncontrollable Condition | 5 |
| Emergency Phone Numbers | 6 |
| Protection Of The General Public/Roe | 7 |
| Characteristics Of H ₂ S And SO ₂ | 8 |
| Training | 8 |
| Public Relations | 8 |
| Maps | |

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 H₂S 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 H₂S RELEASE

The following procedures and responsibilities will be implemented on activation of the H₂S siren and lights.

All Personnel:

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 (SO₂). 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 H₂S, 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)

| Kaiser-Francis Oil Co. | <u>OFFCE</u> 918/494-0000 | <u>MOBILE</u> |
|------------------------|------------------------------|---------------|
| Bill Wilkinson | 580/668-2335 | 580/221-4637 |
| David Zerger | 918/491-4350 | 918/557-6708 |
| Charles Lock | 918/491-4337 | 918/671-6510 |
| Stuart Blake | 918/491-4347 | 918/510-4126 |
| Robert Sanford | 918/491-4201 | 918/770-2682 |
| Eric Hansen | 918/491-4339 | 918/527-5260 |

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 |
| DXP | 432/580-3770 |
| BJ Services | 575/392-5556 |
| Halliburton | 575/392-6531 800/844-8451 |

PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event of a release with a concentration greater than 100 ppm H₂S, 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)(concentration)(Q)] (0.6258)

(H2S 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)(concentration)(Q)] (.06258)

EXAMPLE: If a well/facility has been determined to have 150 ppm H₂S 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 H₂S safety, shall monitor with detection equipment the H₂S 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 H₂S, 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 H₂S AND SO₂

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

TRAINING:

All responders must have training in the detection of H_2S 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_2S 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 <u>NOT</u> 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.

Project: Bell Lake South Unit 333H Received by OCD: 278/2027 2:37:20 AM

Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H





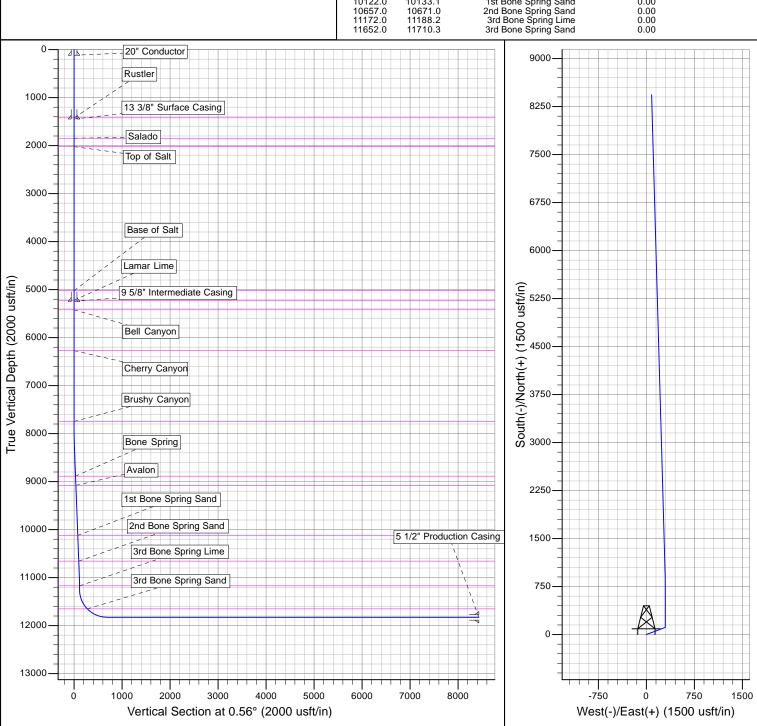
Azimuths to Grid North: 0.45°

True North: -0.45°

Magnetic North: 6.14°

Magnetic Field Strength: 47863.3snT Dip Angle: 60.02° Date: 3/3/2019 Model: IGRF2010

| | CASING DETAILS | FORMATION TOP DETAILS | | | | | |
|----------------------|---|---|--|--|--|--------|--|
| 1447.0 1 5247.0 5 | MD Name 120.0 20" Conductor 1447.0 13 3/8" Surface Casing 5247.0 9 5/8" Intermediate Casing 9922.0 5 1/2" Production Casing | TVDPath 1422.0 1847.0 2022.0 5022.0 5222.0 5422.0 6272.0 7747.0 8887.0 9079.0 10122.0 10657.0 11172.0 11652.0 | MDPath 1422.0 1847.0 2022.0 5022.0 5222.0 5422.0 6272.0 7747.0 8891.3 9084.3 10133.1 10671.0 11188.2 11710.3 | Formation Rustler Salado Top of Salt Base of Salt Lamar Lime Bell Canyon Cherry Canyon Brushy Canyon Brushy Canyon Bone Spring Avalon 1st Bone Spring Sand 2nd Bone Spring Lime 3rd Bone Spring Sand | DipAngle 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | DipDir | |



KAISER-FILANCIS OIL COMPANY

Kaiser Francis

Bell Lake South Unit 333H Bell Lake South Unit 333H Bell Lake South Unit 333H Bell Lake South Unit 333H

Plan: 190303 Bell Lake South Unit 333H

Morcor Standard Plan

03 March, 2019

Morcor Standard Plan

KAISER-PRANCIS OIL COMPANY

Company: Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:
TVD Reference:

Well Bell Lake South Unit 333H

WELL @ 3617.9usft (Original Well Elev) WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Project Bell Lake South Unit 333H

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum:

MD Reference:

Mean Sea Level

Site Bell Lake South Unit 333H

Northing: 453,609.81 usft Site Position: Latitude: 32° 14' 39.346 N From: Lat/Long Easting: 800,755.57 usft Longitude: 103° 29' 39.298 W Slot Radius: **Grid Convergence:** 0.45 **Position Uncertainty:** 1.0 usft 17-1/2 "

Well Bell Lake South Unit 333H **Well Position** +N/-S 0.0 usft Northing: 453,609.81 usft Latitude: 32° 14' 39.346 N +E/-W 0.0 usft 800.755.57 usft 103° 29' 39.298 W Easting: Longitude: 1.0 usft **Position Uncertainty** Wellhead Elevation: usft **Ground Level:** 3,595.9 usft

Wellbore Bell Lake South Unit 333H Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) 6.59 47.863 IGRF2010 3/3/2019 60.02

Design 190303 Bell Lake South Unit 333H

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.56 0.0 0.0 0.0

 Survey Tool Program
 Date
 3/3/2019

 From (usft)
 To (usft)
 Survey (Wellbore)
 Tool Name
 Description

 0.0
 19,922.0
 190303 Bell Lake South Unit 333H (Bell La
 MWD
 MWD - Standard

Morcor Standard Plan

Company: Project:

Site:

Kaiser Francis

Bell Lake South Unit 333H Bell Lake South Unit 333H

Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev) MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| anned Survey | | | | | | | | | | |
|---------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | -3,617.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 50.0 | 0.00 | 0.00 | 50.0 | -3,567.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 100.0 | 0.00 | 69.50 | 100.0 | -3,517.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 120.0 | 0.00 | 69.50 | 120.0 | -3,497.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 20" Conductor | | | | | | | | | | |
| 150.0 | 0.00 | 69.50 | 150.0 | -3,467.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 200.0 | 0.00 | 69.50 | 200.0 | -3,417.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 250.0 | 0.00 | 69.50 | 250.0 | -3,367.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 300.0 | 0.00 | 69.50 | 300.0 | -3,317.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 350.0 | 0.00 | 69.50 | 350.0 | -3,267.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 400.0 | 0.00 | 69.50 | 400.0 | -3,217.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 450.0 | 0.00 | 69.50 | 450.0 | -3,167.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 500.0 | 0.00 | 69.50 | 500.0 | -3,117.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 550.0 | 0.00 | 69.50 | 550.0 | -3,067.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 600.0 | 0.00 | 69.50 | 600.0 | -3,017.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 650.0 | 0.00 | 69.50 | 650.0 | -2,967.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 700.0 | 0.00 | 69.50 | 700.0 | -2,917.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 750.0 | 0.00 | 69.50 | 750.0 | -2,867.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 800.0 | 0.00 | 69.50 | 800.0 | -2,817.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 850.0 | 0.00 | 69.50 | 850.0 | -2,767.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 900.0 | 0.00 | 69.50 | 900.0 | -2,717.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 950.0 | 0.00 | 69.50 | 950.0 | -2,667.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 69.50 | 1,000.0 | -2,617.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 1,050.0 | 0.00 | 69.50 | 1,050.0 | -2,567.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 69.50 | 1,100.0 | -2,517.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 1,150.0 | 0.00 | 69.50 | 1,150.0 | -2,467.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 1.200.0 | 0.00 | 69.50 | 1,200.0 | -2,417.9 | 0.0 | 0.0 | 800.755.57 | 453.609.81 | 0.00 | 0.00 |

Morcor Standard Plan

Kaiser Francis

Company:

Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev) MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference:

Grid **Survey Calculation Method:** Minimum Curvature

EDM 5000.1 Single User Db Database:

| nned Survey | | | | | | | | | | |
|-------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 1,250.0 | 0.00 | 69.50 | 1,250.0 | -2,367.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 1,300.0 | 0.00 | 69.50 | 1,300.0 | -2,317.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 1,350.0 | 0.00 | 69.50 | 1,350.0 | -2,267.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 1,400.0 | 0.00 | 69.50 | 1,400.0 | -2,217.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 1,422.0 | 0.00 | 69.50 | 1,422.0 | -2,195.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| Rustler | | | | | | | | | | |
| 1,447.0 | 0.00 | 69.50 | 1,447.0 | -2,170.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 13 3/8" Surface (| • | | | | | | | | | |
| 1,450.0 | 0.00 | 69.50 | 1,450.0 | -2,167.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,500.0 | 0.00 | 69.50 | 1,500.0 | -2,117.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,550.0 | 0.00 | 69.50 | 1,550.0 | -2,067.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,600.0 | 0.00 | 69.50 | 1,600.0 | -2,017.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,650.0 | 0.00 | 69.50 | 1,650.0 | -1,967.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 1,700.0 | 0.00 | 69.50 | 1,700.0 | -1,917.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,750.0 | 0.00 | 69.50 | 1,750.0 | -1,867.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,800.0 | 0.00 | 69.50 | 1,800.0 | -1,817.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,847.0 | 0.00 | 69.50 | 1,847.0 | -1,770.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| Salado | | | | | | | | | | |
| 1,850.0 | 0.00 | 69.50 | 1,850.0 | -1,767.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,900.0 | 0.00 | 69.50 | 1,900.0 | -1,717.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 1,950.0 | 0.00 | 69.50 | 1,950.0 | -1,667.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 2,000.0 | 0.00 | 69.50 | 2,000.0 | -1,617.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 2,022.0 | 0.00 | 69.50 | 2,022.0 | -1,595.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| Top of Salt | | | | | | | | | | |
| 2,050.0 | 0.00 | 69.50 | 2,050.0 | -1,567.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 2,100.0 | 0.00 | 69.50 | 2,100.0 | -1,517.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 2,150.0 | 0.00 | 69.50 | 2,150.0 | -1,467.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 2,200.0 | 0.00 | 69.50 | 2,200.0 | -1,417.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |

Morcor Standard Plan

Company:

Kaiser Francis

Naisei Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H

Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

e Reference: Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev)
MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| nned Survey | | | | | | | | | | |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 2,250.0 | 0.00 | 69.50 | 2,250.0 | -1,367.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,300.0 | 0.00 | 69.50 | 2,300.0 | -1,317.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,350.0 | 0.00 | 69.50 | 2,350.0 | -1,267.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,400.0 | 0.00 | 69.50 | 2,400.0 | -1,217.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,450.0 | 0.00 | 69.50 | 2,450.0 | -1,167.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,500.0 | 0.00 | 69.50 | 2,500.0 | -1,117.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,550.0 | 0.00 | 69.50 | 2,550.0 | -1,067.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,600.0 | 0.00 | 69.50 | 2,600.0 | -1,017.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,650.0 | 0.00 | 69.50 | 2,650.0 | -967.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,700.0 | 0.00 | 69.50 | 2,700.0 | -917.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,750.0 | 0.00 | 69.50 | 2,750.0 | -867.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 2,800.0 | 0.00 | 69.50 | 2,800.0 | -817.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 2,850.0 | 0.00 | 69.50 | 2,850.0 | -767.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,900.0 | 0.00 | 69.50 | 2,900.0 | -717.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 2,950.0 | 0.00 | 69.50 | 2,950.0 | -667.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,000.0 | 0.00 | 69.50 | 3,000.0 | -617.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,050.0 | 0.00 | 69.50 | 3,050.0 | -567.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,100.0 | 0.00 | 69.50 | 3,100.0 | -517.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,150.0 | 0.00 | 69.50 | 3,150.0 | -467.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,200.0 | 0.00 | 69.50 | 3,200.0 | -417.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,250.0 | 0.00 | 69.50 | 3,250.0 | -367.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,300.0 | 0.00 | 69.50 | 3,300.0 | -317.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,350.0 | 0.00 | 69.50 | 3,350.0 | -267.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,400.0 | 0.00 | 69.50 | 3,400.0 | -217.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 3,450.0 | 0.00 | 69.50 | 3,450.0 | -167.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,500.0 | 0.00 | 69.50 | 3,500.0 | -117.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 3,550.0 | 0.00 | 69.50 | 3,550.0 | -67.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev)
MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| 3,600.0 | 0.00 | 69.50 | 3,600.0 | -17.9 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,650.0 | 0.00 | 69.50 | 3,650.0 | 32.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 69.50 | 3,700.0 | 82.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,750.0 | 0.00 | 69.50 | 3,750.0 | 132.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 69.50 | 3,800.0 | 182.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,850.0 | 0.00 | 69.50 | 3,850.0 | 232.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 69.50 | 3,900.0 | 282.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 3,950.0 | 0.00 | 69.50 | 3,950.0 | 332.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 69.50 | 4,000.0 | 382.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,050.0 | 0.00 | 69.50 | 4,050.0 | 432.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 69.50 | 4,100.0 | 482.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,150.0 | 0.00 | 69.50 | 4,150.0 | 532.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 69.50 | 4,200.0 | 582.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,250.0 | 0.00 | 69.50 | 4,250.0 | 632.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,300.0 | 0.00 | 69.50 | 4,300.0 | 682.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,350.0 | 0.00 | 69.50 | 4,350.0 | 732.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 69.50 | 4,400.0 | 782.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,450.0 | 0.00 | 69.50 | 4,450.0 | 832.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 69.50 | 4,500.0 | 882.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,550.0 | 0.00 | 69.50 | 4,550.0 | 932.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 69.50 | 4,600.0 | 982.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,650.0 | 0.00 | 69.50 | 4,650.0 | 1,032.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 69.50 | 4,700.0 | 1,082.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,750.0 | 0.00 | 69.50 | 4,750.0 | 1,132.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 69.50 | 4,800.0 | 1,182.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,850.0 | 0.00 | 69.50 | 4,850.0 | 1,232.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 69.50 | 4,900.0 | 1,282.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev) North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

| Planned Survey | |
|----------------|----------------------------------|
| Design: | 190303 Bell Lake South Unit 333H |
| wellbore. | Dell Lake South Offit 55511 |

| Tiumica Guivey | | | | | | | | | | |
|-----------------|------|---------------|-------------------|-------------------|---------------|---------------|----------------------|----------------------|----------------|-----------------------------|
| MD | Inc | Azi (azimuth) | TVD | TVDSS | N/S | E/W | Easting | Northing | V. Sec | DLeg |
| (usft) | (°) | (°) 69.50 | (usft) 4,950.0 | (usft) 1,332.1 | (usft) 0.0 | (usft) 0.0 | (usft) 800,755.57 | (usft) 453,609.81 | (usft) 0.00 | (°/ 100usft) 0.00 |
| 4,950.0 | 0.00 | 69.50 | 4,950.0 | 1,332.1 | 0.0 | 0.0 | 600,755.57 | 453,009.61 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 69.50 | 5,000.0 | 1,382.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,022.0 | 0.00 | 69.50 | 5,022.0 | 1,404.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| Base of Salt | | | | | | | | | | |
| 5,050.0 | 0.00 | 69.50 | 5,050.0 | 1,432.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 69.50 | 5,100.0 | 1,482.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,150.0 | 0.00 | 69.50 | 5,150.0 | 1,532.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 69.50 | 5,200.0 | 1,582.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,222.0 | 0.00 | 69.50 | 5,222.0 | 1,604.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| Lamar Lime | | | | | | | | | | |
| 5,247.0 | 0.00 | 69.50 | 5,247.0 | 1,629.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 9 5/8" Intermed | | | | | | | | | | |
| 5,250.0 | 0.00 | 69.50 | 5,250.0 | 1,632.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,300.0 | 0.00 | 69.50 | 5,300.0 | 1,682.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,350.0 | 0.00 | 69.50 | 5,350.0 | 1,732.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 69.50 | 5,400.0 | 1,782.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,422.0 | 0.00 | 69.50 | 5,422.0 | 1,804.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| Bell Canyon | | | | | | | | | | |
| 5,450.0 | 0.00 | 69.50 | 5,450.0 | 1,832.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 69.50 | 5,500.0 | 1,882.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,550.0 | 0.00 | 69.50 | 5,550.0 | 1,932.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 69.50 | 5,600.0 | 1,982.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,650.0 | 0.00 | 69.50 | 5,650.0 | 2,032.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,700.0 | 0.00 | 69.50 | 5,700.0 | 2,082.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,750.0 | 0.00 | 69.50 | 5,750.0 | 2,132.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 69.50 | 5,800.0 | 2,182.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 5,850.0 | 0.00 | 69.50 | 5,850.0 | 2,232.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |

0.00

0.00

Morcor Engineering

Morcor Standard Plan

SUCCESSION SUCCESSION

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev)
MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| ned Survey | | | | | | | | | | |
|---------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 5,900.0 | 0.00 | 69.50 | 5,900.0 | 2,282.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 5,950.0 | 0.00 | 69.50 | 5,950.0 | 2,332.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 6,000.0 | 0.00 | 69.50 | 6,000.0 | 2,382.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 6,050.0 | 0.00 | 69.50 | 6,050.0 | 2,432.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 6,100.0 | 0.00 | 69.50 | 6,100.0 | 2,482.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 6,150.0 | 0.00 | 69.50 | 6,150.0 | 2,532.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,200.0 | 0.00 | 69.50 | 6,200.0 | 2,582.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,250.0 | 0.00 | 69.50 | 6,250.0 | 2,632.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,272.0 | 0.00 | 69.50 | 6,272.0 | 2,654.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| Cherry Canyon | 0.00 | CO 50 | 0.200.0 | 0.000.4 | 0.0 | 0.0 | 000 755 57 | 452 600 04 | 0.00 | 0 |
| 6,300.0 | 0.00 | 69.50 | 6,300.0 | 2,682.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,350.0 | 0.00 | 69.50 | 6,350.0 | 2,732.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,400.0 | 0.00 | 69.50 | 6,400.0 | 2,782.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,450.0 | 0.00 | 69.50 | 6,450.0 | 2,832.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,500.0 | 0.00 | 69.50 | 6,500.0 | 2,882.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,550.0 | 0.00 | 69.50 | 6,550.0 | 2,932.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,600.0 | 0.00 | 69.50 | 6,600.0 | 2,982.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,650.0 | 0.00 | 69.50 | 6,650.0 | 3,032.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,700.0 | 0.00 | 69.50 | 6,700.0 | 3,082.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,750.0 | 0.00 | 69.50 | 6,750.0 | 3,132.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,800.0 | 0.00 | 69.50 | 6,800.0 | 3,182.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,850.0 | 0.00 | 69.50 | 6,850.0 | 3,232.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 6,900.0 | 0.00 | 69.50 | 6,900.0 | 3,282.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 6,950.0 | 0.00 | 69.50 | 6,950.0 | 3,332.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 7,000.0 | 0.00 | 69.50 | 7,000.0 | 3,382.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |
| 7,050.0 | 0.00 | 69.50 | 7,050.0 | 3,432.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0 |

0.0

0.0

800,755.57

453,609.81

3,482.1

0.00

69.50

7,100.0

7,100.0

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H

Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| lanned Survey | | | | | | | | | | |
|-------------------|--------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 7,150.0 | 0.00 | 69.50 | 7,150.0 | 3,532.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 69.50 | 7,200.0 | 3,582.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 7,250.0 | 0.00 | 69.50 | 7,250.0 | 3,632.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.00 |
| 7,300.0 | 0.00 | 69.50 | 7,300.0 | 3,682.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,350.0 | 0.00 | 69.50 | 7,350.0 | 3,732.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,400.0 | 0.00 | 69.50 | 7,400.0 | 3,782.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,450.0 | 0.00 | 69.50 | 7,450.0 | 3,832.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,500.0 | 0.00 | 69.50 | 7,500.0 | 3,882.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,550.0 | 0.00 | 69.50 | 7,550.0 | 3,932.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,600.0 | 0.00 | 69.50 | 7,600.0 | 3,982.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,650.0 | 0.00 | 69.50 | 7,650.0 | 4,032.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,700.0 | 0.00 | 69.50 | 7,700.0 | 4,082.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,747.0 | 0.00 | 69.50 | 7,747.0 | 4,129.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| Brushy Canyon | | | | | | | | | | |
| 7,750.0 | 0.00 | 69.50 | 7,750.0 | 4,132.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,800.0 | 0.00 | 69.50 | 7,800.0 | 4,182.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0. |
| 7,850.0 | 0.00 | 69.50 | 7,850.0 | 4,232.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,900.0 | 0.00 | 69.50 | 7,900.0 | 4,282.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,950.0 | 0.00 | 69.50 | 7,950.0 | 4,332.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| 7,980.0 | 0.00 | 69.50 | 7,980.0 | 4,362.1 | 0.0 | 0.0 | 800,755.57 | 453,609.81 | 0.00 | 0.0 |
| Start Build 3.00 | | | | | | | | | | |
| 8,000.0 | 0.60 | 69.50 | 8,000.0 | 4,382.1 | 0.0 | 0.1 | 800,755.67 | 453,609.84 | 0.04 | 3.0 |
| 8,050.0 | 2.10 | 69.50 | 8,050.0 | 4,432.1 | 0.4 | 1.2 | 800,756.77 | 453,610.26 | 0.46 | 3.0 |
| 8,100.0 | 3.60 | 69.50 | 8,099.9 | 4,482.0 | 1.3 | 3.5 | 800,759.10 | 453,611.13 | 1.35 | 3.0 |
| 8,150.0 | 5.10 | 69.50 | 8,149.8 | 4,531.9 | 2.6 | 7.1 | 800,762.66 | 453,612.45 | 2.72 | 3.0 |
| 8,180.0 | 6.00 | 69.50 | 8,179.6 | 4,561.7 | 3.7 | 9.8 | 800,765.37 | 453,613.47 | 3.76 | 3.0 |
| Start 2830.0 hold | at 8180.0 MD | | | | | | | | | |

Morcor Standard Plan

Company:

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Kaiser Francis

Local Co-ordinate Reference:

Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev)
MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| nned Survey | | | | | | | | | | |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 8,200.0 | 6.00 | 69.50 | 8,199.5 | 4,581.6 | 4.4 | 11.8 | 800,767.33 | 453,614.20 | 4.51 | 0.0 |
| 8,250.0 | 6.00 | 69.50 | 8,249.3 | 4,631.4 | 6.2 | 16.7 | 800,772.23 | 453,616.03 | 6.39 | 0.0 |
| 8,300.0 | 6.00 | 69.50 | 8,299.0 | 4,681.1 | 8.1 | 21.5 | 800,777.12 | 453,617.86 | 8.27 | 0.0 |
| 8,350.0 | 6.00 | 69.50 | 8,348.7 | 4,730.8 | 9.9 | 26.4 | 800,782.02 | 453,619.69 | 10.14 | 0.0 |
| 8,400.0 | 6.00 | 69.50 | 8,398.4 | 4,780.5 | 11.7 | 31.3 | 800,786.91 | 453,621.52 | 12.02 | 0.0 |
| 8,450.0 | 6.00 | 69.50 | 8,448.2 | 4,830.3 | 13.5 | 36.2 | 800,791.81 | 453,623.35 | 13.90 | 0.0 |
| 8,500.0 | 6.00 | 69.50 | 8,497.9 | 4,880.0 | 15.4 | 41.1 | 800,796.70 | 453,625.18 | 15.78 | 0.0 |
| 8,550.0 | 6.00 | 69.50 | 8,547.6 | 4,929.7 | 17.2 | 46.0 | 800,801.60 | 453,627.01 | 17.66 | 0.0 |
| 8,600.0 | 6.00 | 69.50 | 8,597.3 | 4,979.4 | 19.0 | 50.9 | 800,806.49 | 453,628.84 | 19.53 | 0.0 |
| 8,650.0 | 6.00 | 69.50 | 8,647.1 | 5,029.2 | 20.9 | 55.8 | 800,811.39 | 453,630.68 | 21.41 | 0.0 |
| 8,700.0 | 6.00 | 69.50 | 8,696.8 | 5,078.9 | 22.7 | 60.7 | 800,816.29 | 453,632.51 | 23.29 | 0.0 |
| 8,750.0 | 6.00 | 69.50 | 8,746.5 | 5,128.6 | 24.5 | 65.6 | 800,821.18 | 453,634.34 | 25.17 | 0.0 |
| 8,800.0 | 6.00 | 69.50 | 8,796.2 | 5,178.3 | 26.4 | 70.5 | 800,826.08 | 453,636.17 | 27.05 | 0.0 |
| 8,850.0 | 6.00 | 69.50 | 8,846.0 | 5,228.1 | 28.2 | 75.4 | 800,830.97 | 453,638.00 | 28.92 | 0.0 |
| 8,891.3 | 6.00 | 69.50 | 8,887.0 | 5,269.1 | 29.7 | 79.4 | 800,835.01 | 453,639.51 | 30.47 | 0.0 |
| Bone Spring | | | | | | | | | | |
| 8,900.0 | 6.00 | 69.50 | 8,895.7 | 5,277.8 | 30.0 | 80.3 | 800,835.87 | 453,639.83 | 30.80 | 0.0 |
| 8,950.0 | 6.00 | 69.50 | 8,945.4 | 5,327.5 | 31.9 | 85.2 | 800,840.76 | 453,641.66 | 32.68 | 0.0 |
| 9,000.0 | 6.00 | 69.50 | 8,995.1 | 5,377.2 | 33.7 | 90.1 | 800,845.66 | 453,643.49 | 34.56 | 0.0 |
| 9,050.0 | 6.00 | 69.50 | 9,044.9 | 5,427.0 | 35.5 | 95.0 | 800,850.55 | 453,645.32 | 36.44 | 0.0 |
| 9,084.3 | 6.00 | 69.50 | 9,079.0 | 5,461.1 | 36.8 | 98.3 | 800,853.91 | 453,646.57 | 37.72 | 0.0 |
| Avalon | | | | | | | | | | |
| 9,100.0 | 6.00 | 69.50 | 9,094.6 | 5,476.7 | 37.3 | 99.9 | 800,855.45 | 453,647.15 | 38.31 | 0.0 |
| 9,150.0 | 6.00 | 69.50 | 9,144.3 | 5,526.4 | 39.2 | 104.8 | 800,860.34 | 453,648.98 | 40.19 | 0.0 |
| 9,200.0 | 6.00 | 69.50 | 9,194.0 | 5,576.1 | 41.0 | 109.7 | 800,865.24 | 453,650.81 | 42.07 | 0.0 |
| 9,250.0 | 6.00 | 69.50 | 9,243.8 | 5,625.9 | 42.8 | 114.6 | 800,870.14 | 453,652.64 | 43.95 | 0.0 |
| 9,300.0 | 6.00 | 69.50 | 9,293.5 | 5,675.6 | 44.7 | 119.5 | 800,875.03 | 453,654.47 | 45.83 | 0.0 |

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 9,350.0 | 6.00 | 69.50 | 9,343.2 | 5,725.3 | 46.5 | 124.4 | 800,879.93 | 453,656.30 | 47.70 | 0.00 |
| 9,400.0 | 6.00 | 69.50 | 9,393.0 | 5,775.1 | 48.3 | 129.2 | 800,884.82 | 453,658.13 | 49.58 | 0.00 |
| 9,450.0 | 6.00 | 69.50 | 9,442.7 | 5,824.8 | 50.2 | 134.1 | 800,889.72 | 453,659.96 | 51.46 | 0.00 |
| 9,500.0 | 6.00 | 69.50 | 9,492.4 | 5,874.5 | 52.0 | 139.0 | 800,894.61 | 453,661.79 | 53.34 | 0.00 |
| 9,550.0 | 6.00 | 69.50 | 9,542.1 | 5,924.2 | 53.8 | 143.9 | 800,899.51 | 453,663.62 | 55.22 | 0.00 |
| 9,600.0 | 6.00 | 69.50 | 9,591.9 | 5,974.0 | 55.6 | 148.8 | 800,904.40 | 453,665.45 | 57.09 | 0.00 |
| 9,650.0 | 6.00 | 69.50 | 9,641.6 | 6,023.7 | 57.5 | 153.7 | 800,909.30 | 453,667.28 | 58.97 | 0.00 |
| 9,700.0 | 6.00 | 69.50 | 9,691.3 | 6,073.4 | 59.3 | 158.6 | 800,914.19 | 453,669.11 | 60.85 | 0.00 |
| 9,750.0 | 6.00 | 69.50 | 9,741.0 | 6,123.1 | 61.1 | 163.5 | 800,919.09 | 453,670.94 | 62.73 | 0.00 |
| 9,800.0 | 6.00 | 69.50 | 9,790.8 | 6,172.9 | 63.0 | 168.4 | 800,923.99 | 453,672.77 | 64.61 | 0.00 |
| 9,850.0 | 6.00 | 69.50 | 9,840.5 | 6,222.6 | 64.8 | 173.3 | 800,928.88 | 453,674.60 | 66.48 | 0.00 |
| 9,900.0 | 6.00 | 69.50 | 9,890.2 | 6,272.3 | 66.6 | 178.2 | 800,933.78 | 453,676.43 | 68.36 | 0.00 |
| 9,950.0 | 6.00 | 69.50 | 9,939.9 | 6,322.0 | 68.5 | 183.1 | 800,938.67 | 453,678.26 | 70.24 | 0.00 |
| 10,000.0 | 6.00 | 69.50 | 9,989.7 | 6,371.8 | 70.3 | 188.0 | 800,943.57 | 453,680.09 | 72.12 | 0.00 |
| 10,050.0 | 6.00 | 69.50 | 10,039.4 | 6,421.5 | 72.1 | 192.9 | 800,948.46 | 453,681.92 | 73.99 | 0.00 |
| 10,100.0 | 6.00 | 69.50 | 10,089.1 | 6,471.2 | 73.9 | 197.8 | 800,953.36 | 453,683.75 | 75.87 | 0.00 |
| 10,133.1 | 6.00 | 69.50 | 10,122.0 | 6,504.1 | 75.2 | 201.0 | 800,956.60 | 453,684.97 | 77.11 | 0.00 |
| 1st Bone Sprin | U | | | | | | | | | |
| 10,150.0 | 6.00 | 69.50 | 10,138.8 | 6,520.9 | 75.8 | 202.7 | 800,958.25 | 453,685.58 | 77.75 | 0.00 |
| 10,200.0 | 6.00 | 69.50 | 10,188.6 | 6,570.7 | 77.6 | 207.6 | 800,963.15 | 453,687.42 | 79.63 | 0.00 |
| 10,250.0 | 6.00 | 69.50 | 10,238.3 | 6,620.4 | 79.4 | 212.5 | 800,968.04 | 453,689.25 | 81.51 | 0.00 |
| 10,300.0 | 6.00 | 69.50 | 10,288.0 | 6,670.1 | 81.3 | 217.4 | 800,972.94 | 453,691.08 | 83.38 | 0.00 |
| 10,350.0 | 6.00 | 69.50 | 10,337.7 | 6,719.8 | 83.1 | 222.3 | 800,977.84 | 453,692.91 | 85.26 | 0.00 |
| 10,400.0 | 6.00 | 69.50 | 10,387.5 | 6,769.6 | 84.9 | 227.2 | 800,982.73 | 453,694.74 | 87.14 | 0.00 |
| 10,450.0 | 6.00 | 69.50 | 10,437.2 | 6,819.3 | 86.8 | 232.1 | 800,987.63 | 453,696.57 | 89.02 | 0.00 |
| 10,500.0 | 6.00 | 69.50 | 10,486.9 | 6,869.0 | 88.6 | 236.9 | 800,992.52 | 453,698.40 | 90.90 | 0.00 |
| 10,550.0 | 6.00 | 69.50 | 10,536.7 | 6,918.8 | 90.4 | 241.8 | 800,997.42 | 453,700.23 | 92.77 | 0.00 |

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

TVD Reference: MD Reference: Well Bell Lake South Unit 333H WELL @ 3617.9usft (Original Well Elev) WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| | | | | | | | | 3 | | |
|-------------------|---------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| nned Survey | | | | | | | | | | |
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 10,600.0 | 6.00 | 69.50 | 10,586.4 | 6,968.5 | 92.3 | 246.7 | 801,002.31 | 453,702.06 | 94.65 | 0.0 |
| 10,650.0 | 6.00 | 69.50 | 10,636.1 | 7,018.2 | 94.1 | 251.6 | 801,007.21 | 453,703.89 | 96.53 | 0.0 |
| 10,671.0 | 6.00 | 69.50 | 10,657.0 | 7,039.1 | 94.9 | 253.7 | 801,009.26 | 453,704.66 | 97.32 | 0.0 |
| 2nd Bone Spring | g Sand | | | | | | | | | |
| 10,700.0 | 6.00 | 69.50 | 10,685.8 | 7,067.9 | 95.9 | 256.5 | 801,012.10 | 453,705.72 | 98.41 | 0.00 |
| 10,750.0 | 6.00 | 69.50 | 10,735.6 | 7,117.7 | 97.7 | 261.4 | 801,017.00 | 453,707.55 | 100.29 | 0.0 |
| 10,800.0 | 6.00 | 69.50 | 10,785.3 | 7,167.4 | 99.6 | 266.3 | 801,021.89 | 453,709.38 | 102.16 | 0.00 |
| 10,850.0 | 6.00 | 69.50 | 10,835.0 | 7,217.1 | 101.4 | 271.2 | 801,026.79 | 453,711.21 | 104.04 | 0.0 |
| 10,900.0 | 6.00 | 69.50 | 10,884.7 | 7,266.8 | 103.2 | 276.1 | 801,031.69 | 453,713.04 | 105.92 | 0.0 |
| 10,950.0 | 6.00 | 69.50 | 10,934.5 | 7,316.6 | 105.1 | 281.0 | 801,036.58 | 453,714.87 | 107.80 | 0.0 |
| 11,000.0 | 6.00 | 69.50 | 10,984.2 | 7,366.3 | 106.9 | 285.9 | 801,041.48 | 453,716.70 | 109.68 | 0.0 |
| 11,010.0 | 6.00 | 69.50 | 10,994.1 | 7,376.2 | 107.3 | 286.9 | 801,042.46 | 453,717.07 | 110.05 | 0.0 |
| Start Drop -3.00 | | | | | | | | | | |
| 11,050.0 | 4.80 | 69.50 | 11,034.0 | 7,416.1 | 108.6 | 290.4 | 801,045.98 | 453,718.38 | 111.40 | 3.0 |
| 11,100.0 | 3.30 | 69.50 | 11,083.8 | 7,465.9 | 109.8 | 293.7 | 801,049.29 | 453,719.62 | 112.67 | 3.00 |
| 11,150.0 | 1.80 | 69.50 | 11,133.8 | 7,515.9 | 110.6 | 295.8 | 801,051.37 | 453,720.40 | 113.47 | 3.0 |
| 11,188.2 | 0.65 | 69.50 | 11,172.0 | 7,554.1 | 110.9 | 296.6 | 801,052.14 | 453,720.69 | 113.77 | 3.00 |
| 3rd Bone Spring | | | | | | | | | | |
| 11,200.0 | 0.30 | 69.50 | 11,183.8 | 7,565.9 | 110.9 | 296.7 | 801,052.23 | 453,720.72 | 113.80 | 3.0 |
| 11,210.0 | 0.00 | 0.00 | 11,193.8 | 7,575.9 | 110.9 | 296.7 | 801,052.25 | 453,720.73 | 113.81 | 3.00 |
| Start 60.0 hold a | at 11210.0 MD | | | | | | | | | |
| 11,250.0 | 0.00 | 0.00 | 11,233.8 | 7,615.9 | 110.9 | 296.7 | 801,052.25 | 453,720.73 | 113.81 | 0.0 |
| 11,270.0 | 0.00 | 0.00 | 11,253.8 | 7,635.9 | 110.9 | 296.7 | 801,052.25 | 453,720.73 | 113.81 | 0.0 |
| Start Build 10.00 | | | | | | | | | | |
| 11,300.0 | 3.00 | 0.00 | 11,283.8 | 7,665.9 | 111.7 | 296.7 | 801,052.25 | 453,721.52 | 114.60 | 10.00 |
| 11,350.0 | 8.00 | 0.00 | 11,333.5 | 7,715.6 | 116.5 | 296.7 | 801,052.25 | 453,726.31 | 119.39 | 10.0 |
| 11,400.0 | 13.00 | 0.00 | 11,382.7 | 7,764.8 | 125.6 | 296.7 | 801,052.25 | 453,735.42 | 128.50 | 10.00 |
| 11,450.0 | 18.00 | 0.00 | 11,430.8 | 7,812.9 | 139.0 | 296.7 | 801,052.25 | 453,748.77 | 141.85 | 10.00 |

Morcor Standard Plan

Kaiser Francis Company:

Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

| ned Survey | | | | | | | | | | |
|------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 11,500.0 | 23.00 | 0.00 | 11,477.6 | 7,859.7 | 156.5 | 296.7 | 801,052.25 | 453,766.28 | 159.36 | 10. |
| 11,550.0 | 28.00 | 0.00 | 11,522.8 | 7,904.9 | 178.0 | 296.7 | 801,052.25 | 453,787.80 | 180.87 | 10 |
| 11,600.0 | 33.00 | 0.00 | 11,565.8 | 7,947.9 | 203.4 | 296.7 | 801,052.25 | 453,813.17 | 206.24 | 10 |
| 11,650.0 | 38.00 | 0.00 | 11,606.5 | 7,988.6 | 232.4 | 296.7 | 801,052.25 | 453,842.19 | 235.27 | 10 |
| 11,700.0 | 43.00 | 0.00 | 11,644.5 | 8,026.6 | 264.8 | 296.7 | 801,052.25 | 453,874.65 | 267.73 | 10 |
| 11,710.3 | 44.03 | 0.00 | 11,652.0 | 8,034.1 | 271.9 | 296.7 | 801,052.25 | 453,881.75 | 274.83 | 10 |
| 3rd Bone Spring | | | | | | | | | | |
| 11,750.0 | 48.00 | 0.00 | 11,679.6 | 8,061.7 | 300.5 | 296.7 | 801,052.25 | 453,910.30 | 303.38 | 10 |
| 11,800.0 | 53.00 | 0.00 | 11,711.4 | 8,093.5 | 339.1 | 296.7 | 801,052.25 | 453,948.87 | 341.94 | 10 |
| 11,850.0 | 58.00 | 0.00 | 11,739.7 | 8,121.8 | 380.3 | 296.7 | 801,052.25 | 453,990.07 | 383.13 | 10 |
| 11,900.0 | 63.00 | 0.00 | 11,764.3 | 8,146.4 | 423.8 | 296.7 | 801,052.25 | 454,033.57 | 426.64 | 10 |
| 11,950.0 | 68.00 | 0.00 | 11,785.0 | 8,167.1 | 469.2 | 296.7 | 801,052.25 | 454,079.05 | 472.12 | 10 |
| 12,000.0 | 73.00 | 0.00 | 11,801.7 | 8,183.8 | 516.4 | 296.7 | 801,052.25 | 454,126.17 | 519.23 | 10 |
| 12,050.0 | 78.00 | 0.00 | 11,814.2 | 8,196.3 | 564.8 | 296.7 | 801,052.25 | 454,174.56 | 567.62 | 10 |
| 12,100.0 | 83.00 | 0.00 | 11,822.5 | 8,204.6 | 614.1 | 296.7 | 801,052.25 | 454,223.86 | 616.92 | 10 |
| 12,150.0 | 88.00 | 0.00 | 11,826.4 | 8,208.5 | 663.9 | 296.7 | 801,052.25 | 454,273.69 | 666.75 | 10 |
| 12,170.0 | 90.00 | 0.00 | 11,826.7 | 8,208.8 | 683.9 | 296.7 | 801,052.25 | 454,293.69 | 686.74 | 10 |
| Start 115.0 hold | | | | | | | | | | |
| 12,200.0 | 90.00 | 0.00 | 11,826.7 | 8,208.8 | 713.9 | 296.7 | 801,052.25 | 454,323.69 | 716.74 | C |
| 12,250.0 | 90.00 | 0.00 | 11,826.7 | 8,208.8 | 763.9 | 296.7 | 801,052.25 | 454,373.69 | 766.74 | C |
| 12,285.0 | 90.00 | 0.00 | 11,826.7 | 8,208.8 | 798.9 | 296.7 | 801,052.25 | 454,408.69 | 801.74 | (|
| Start Turn -1.62 | | | | | | | | | | |
| 12,300.0 | 90.00 | 359.76 | 11,826.7 | 8,208.8 | 813.9 | 296.7 | 801,052.22 | 454,423.69 | 816.74 | 1 |
| 12,350.0 | 90.00 | 358.95 | 11,826.7 | 8,208.8 | 863.9 | 296.1 | 801,051.66 | 454,473.68 | 866.72 | 1 |
| 12,385.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 898.9 | 295.3 | 801,050.84 | 454,508.68 | 901.70 | 1 |
| Start 7537.0 hol | | | ., | | | | | | | |
| 12,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 913.9 | 294.8 | 801,050.42 | 454,523.67 | 916.69 | (|
| 12,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 963.8 | 293.4 | 801,049.00 | 454,573.65 | 966.66 | 0 |

Morcor Standard Plan

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Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

eference: Well Bell Lake South Unit 333H

TVD Reference: WELL @ 3617.9usft (Original Well Elev)
MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| lanned Survey | | | | | | | | | | |
|---------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 12,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,013.8 | 292.0 | 801,047.59 | 454,623.63 | 1,016.62 | 0.0 |
| 12,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,063.8 | 290.6 | 801,046.18 | 454,673.61 | 1,066.59 | 0.0 |
| 12,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,113.8 | 289.2 | 801,044.76 | 454,723.59 | 1,116.55 | 0.0 |
| 12,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,163.8 | 287.8 | 801,043.35 | 454,773.57 | 1,166.51 | 0.0 |
| 12,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,213.7 | 286.4 | 801,041.94 | 454,823.55 | 1,216.48 | 0.0 |
| 12,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,263.7 | 284.9 | 801,040.52 | 454,873.53 | 1,266.44 | 0.0 |
| 12,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,313.7 | 283.5 | 801,039.11 | 454,923.51 | 1,316.40 | 0.0 |
| 12,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,363.7 | 282.1 | 801,037.70 | 454,973.49 | 1,366.37 | 0.0 |
| 12,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,413.7 | 280.7 | 801,036.28 | 455,023.47 | 1,416.33 | 0.0 |
| 12,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,463.6 | 279.3 | 801,034.87 | 455,073.45 | 1,466.30 | 0.0 |
| 13,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,513.6 | 277.9 | 801,033.45 | 455,123.43 | 1,516.26 | 0. |
| 13,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,563.6 | 276.5 | 801,032.04 | 455,173.41 | 1,566.22 | 0.0 |
| 13,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,613.6 | 275.1 | 801,030.63 | 455,223.39 | 1,616.19 | 0.0 |
| 13,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,663.6 | 273.6 | 801,029.21 | 455,273.37 | 1,666.15 | 0. |
| 13,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,713.5 | 272.2 | 801,027.80 | 455,323.35 | 1,716.12 | 0. |
| 13,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,763.5 | 270.8 | 801,026.39 | 455,373.33 | 1,766.08 | 0. |
| 13,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,813.5 | 269.4 | 801,024.97 | 455,423.31 | 1,816.04 | 0. |
| 13,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,863.5 | 268.0 | 801,023.56 | 455,473.29 | 1,866.01 | 0. |
| 13,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,913.5 | 266.6 | 801,022.15 | 455,523.27 | 1,915.97 | 0. |
| 13,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 1,963.4 | 265.2 | 801,020.73 | 455,573.25 | 1,965.93 | 0.0 |
| 13,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,013.4 | 263.7 | 801,019.32 | 455,623.23 | 2,015.90 | 0.0 |
| 13,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,063.4 | 262.3 | 801,017.91 | 455,673.21 | 2,065.86 | 0. |
| 13,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,113.4 | 260.9 | 801,016.49 | 455,723.19 | 2,115.83 | 0.0 |
| 13,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,163.4 | 259.5 | 801,015.08 | 455,773.17 | 2,165.79 | 0.0 |
| 13,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,213.3 | 258.1 | 801,013.67 | 455,823.15 | 2,215.75 | 0. |
| 13,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,263.3 | 256.7 | 801,012.25 | 455,873.13 | 2,265.72 | 0.0 |
| 13,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,313.3 | 255.3 | 801,010.84 | 455,923.11 | 2,315.68 | 0.0 |

Morcor Standard Plan

Company:

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Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

| nned Survey | | | | | | | | | | |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 13,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,363.3 | 253.9 | 801,009.42 | 455,973.09 | 2,365.65 | 0.0 |
| 13,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,413.3 | 252.4 | 801,008.01 | 456,023.07 | 2,415.61 | 0.0 |
| 13,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,463.2 | 251.0 | 801,006.60 | 456,073.05 | 2,465.57 | 0.0 |
| 14,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,513.2 | 249.6 | 801,005.18 | 456,123.03 | 2,515.54 | 0.0 |
| 14,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,563.2 | 248.2 | 801,003.77 | 456,173.01 | 2,565.50 | 0.0 |
| 14,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,613.2 | 246.8 | 801,002.36 | 456,222.99 | 2,615.46 | 0.0 |
| 14,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,663.2 | 245.4 | 801,000.94 | 456,272.97 | 2,665.43 | 0.0 |
| 14,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,713.1 | 244.0 | 800,999.53 | 456,322.95 | 2,715.39 | 0.0 |
| 14,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,763.1 | 242.5 | 800,998.12 | 456,372.93 | 2,765.36 | 0.0 |
| 14,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,813.1 | 241.1 | 800,996.70 | 456,422.91 | 2,815.32 | 0. |
| 14,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,863.1 | 239.7 | 800,995.29 | 456,472.89 | 2,865.28 | 0. |
| 14,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,913.1 | 238.3 | 800,993.88 | 456,522.87 | 2,915.25 | 0. |
| 14,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 2,963.0 | 236.9 | 800,992.46 | 456,572.85 | 2,965.21 | 0.0 |
| 14,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,013.0 | 235.5 | 800,991.05 | 456,622.83 | 3,015.18 | 0.0 |
| 14,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,063.0 | 234.1 | 800,989.64 | 456,672.81 | 3,065.14 | 0. |
| 14,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,113.0 | 232.6 | 800,988.22 | 456,722.79 | 3,115.10 | 0. |
| 14,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,163.0 | 231.2 | 800,986.81 | 456,772.77 | 3,165.07 | 0. |
| 14,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,212.9 | 229.8 | 800,985.39 | 456,822.75 | 3,215.03 | 0. |
| 14,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,262.9 | 228.4 | 800,983.98 | 456,872.73 | 3,265.00 | 0. |
| 14,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,312.9 | 227.0 | 800,982.57 | 456,922.71 | 3,314.96 | 0. |
| 14,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,362.9 | 225.6 | 800,981.15 | 456,972.69 | 3,364.92 | 0. |
| 14,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,412.9 | 224.2 | 800,979.74 | 457,022.67 | 3,414.89 | 0. |
| 14,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,462.8 | 222.8 | 800,978.33 | 457,072.65 | 3,464.85 | 0. |
| 15,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,512.8 | 221.3 | 800,976.91 | 457,122.63 | 3,514.81 | 0.0 |
| 15,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,562.8 | 219.9 | 800,975.50 | 457,172.61 | 3,564.78 | 0.0 |
| 15,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,612.8 | 218.5 | 800,974.09 | 457,222.59 | 3,614.74 | 0. |
| 15,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,662.8 | 217.1 | 800,972.67 | 457,272.57 | 3,664.71 | 0.0 |

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Bell Lake South Unit 333H

WELL @ 3617.9usft (Original Well Elev)
WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| nned Survey | | | | | | | | | | |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 15,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,712.7 | 215.7 | 800,971.26 | 457,322.55 | 3,714.67 | 0.0 |
| 15,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,762.7 | 214.3 | 800,969.85 | 457,372.53 | 3,764.63 | 0.0 |
| 15,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,812.7 | 212.9 | 800,968.43 | 457,422.51 | 3,814.60 | 0.0 |
| 15,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,862.7 | 211.4 | 800,967.02 | 457,472.49 | 3,864.56 | 0. |
| 15,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,912.7 | 210.0 | 800,965.61 | 457,522.47 | 3,914.53 | 0.0 |
| 15,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 3,962.6 | 208.6 | 800,964.19 | 457,572.45 | 3,964.49 | 0. |
| 15,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,012.6 | 207.2 | 800,962.78 | 457,622.43 | 4,014.45 | 0. |
| 15,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,062.6 | 205.8 | 800,961.36 | 457,672.41 | 4,064.42 | 0. |
| 15,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,112.6 | 204.4 | 800,959.95 | 457,722.39 | 4,114.38 | 0. |
| 15,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,162.6 | 203.0 | 800,958.54 | 457,772.37 | 4,164.34 | 0 |
| 15,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,212.5 | 201.6 | 800,957.12 | 457,822.35 | 4,214.31 | 0. |
| 15,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,262.5 | 200.1 | 800,955.71 | 457,872.33 | 4,264.27 | 0 |
| 15,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,312.5 | 198.7 | 800,954.30 | 457,922.31 | 4,314.24 | 0 |
| 15,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,362.5 | 197.3 | 800,952.88 | 457,972.29 | 4,364.20 | 0 |
| 15,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,412.5 | 195.9 | 800,951.47 | 458,022.27 | 4,414.16 | 0 |
| 15,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,462.4 | 194.5 | 800,950.06 | 458,072.25 | 4,464.13 | 0 |
| 16,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,512.4 | 193.1 | 800,948.64 | 458,122.23 | 4,514.09 | 0 |
| 16,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,562.4 | 191.7 | 800,947.23 | 458,172.21 | 4,564.06 | 0 |
| 16,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,612.4 | 190.2 | 800,945.82 | 458,222.19 | 4,614.02 | 0 |
| 16,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,662.4 | 188.8 | 800,944.40 | 458,272.17 | 4,663.98 | 0 |
| 16,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,712.3 | 187.4 | 800,942.99 | 458,322.15 | 4,713.95 | 0 |
| 16,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,762.3 | 186.0 | 800,941.58 | 458,372.13 | 4,763.91 | 0 |
| 16,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,812.3 | 184.6 | 800,940.16 | 458,422.11 | 4,813.87 | 0 |
| 16,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,862.3 | 183.2 | 800,938.75 | 458,472.09 | 4,863.84 | 0 |
| 16,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,912.3 | 181.8 | 800,937.33 | 458,522.07 | 4,913.80 | 0 |
| 16,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 4,962.2 | 180.3 | 800,935.92 | 458,572.05 | 4,963.77 | 0.0 |
| | | | | | | | | | | |

5,012.2

178.9

800,934.51

458,622.03

5,013.73

0.00

8,208.8

90.00

358.38

11,826.7

16,500.0

Morcor Standard Plan

Kaiser Francis

Company: Project: Bell Lake South Unit 333H Site: Bell Lake South Unit 333H Well: Bell Lake South Unit 333H Wellbore: Bell Lake South Unit 333H

Design: 190303 Bell Lake South Unit 333H Local Co-ordinate Reference:

Well Bell Lake South Unit 333H TVD Reference: WELL @ 3617.9usft (Original Well Elev) WELL @ 3617.9usft (Original Well Elev)

MD Reference: North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 16,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,062.2 | 177.5 | 800,933.09 | 458,672.01 | 5,063.69 | 0.00 |
| 16,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,112.2 | 176.1 | 800,931.68 | 458,721.99 | 5,113.66 | 0.00 |
| 16,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,162.2 | 174.7 | 800,930.27 | 458,771.97 | 5,163.62 | 0.00 |
| 16,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,212.1 | 173.3 | 800,928.85 | 458,821.95 | 5,213.59 | 0.00 |
| 16,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,262.1 | 171.9 | 800,927.44 | 458,871.93 | 5,263.55 | 0.00 |
| 16,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,312.1 | 170.5 | 800,926.03 | 458,921.91 | 5,313.51 | 0.00 |
| 16,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,362.1 | 169.0 | 800,924.61 | 458,971.89 | 5,363.48 | 0.00 |
| 16,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,412.1 | 167.6 | 800,923.20 | 459,021.87 | 5,413.44 | 0.00 |
| 16,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,462.0 | 166.2 | 800,921.79 | 459,071.85 | 5,463.41 | 0.00 |
| 17,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,512.0 | 164.8 | 800,920.37 | 459,121.83 | 5,513.37 | 0.00 |
| 17,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,562.0 | 163.4 | 800,918.96 | 459,171.81 | 5,563.33 | 0.00 |
| 17,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,612.0 | 162.0 | 800,917.55 | 459,221.79 | 5,613.30 | 0.00 |
| 17,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,662.0 | 160.6 | 800,916.13 | 459,271.77 | 5,663.26 | 0.00 |
| 17,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,711.9 | 159.1 | 800,914.72 | 459,321.75 | 5,713.22 | 0.00 |
| 17,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,761.9 | 157.7 | 800,913.30 | 459,371.73 | 5,763.19 | 0.00 |
| 17,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,811.9 | 156.3 | 800,911.89 | 459,421.71 | 5,813.15 | 0.00 |
| 17,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,861.9 | 154.9 | 800,910.48 | 459,471.69 | 5,863.12 | 0.00 |
| 17,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,911.9 | 153.5 | 800,909.06 | 459,521.67 | 5,913.08 | 0.00 |
| 17,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 5,961.8 | 152.1 | 800,907.65 | 459,571.65 | 5,963.04 | 0.00 |
| 17,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,011.8 | 150.7 | 800,906.24 | 459,621.63 | 6,013.01 | 0.00 |
| 17,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,061.8 | 149.3 | 800,904.82 | 459,671.61 | 6,062.97 | 0.00 |
| 17,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,111.8 | 147.8 | 800,903.41 | 459,721.59 | 6,112.94 | 0.00 |
| 17,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,161.8 | 146.4 | 800,902.00 | 459,771.57 | 6,162.90 | 0.00 |
| 17,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,211.7 | 145.0 | 800,900.58 | 459,821.55 | 6,212.86 | 0.00 |
| 17,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,261.7 | 143.6 | 800,899.17 | 459,871.53 | 6,262.83 | 0.00 |
| 17,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,311.7 | 142.2 | 800,897.76 | 459,921.51 | 6,312.79 | 0.00 |
| 17,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,361.7 | 140.8 | 800,896.34 | 459,971.49 | 6,362.75 | 0.00 |

Morcor Standard Plan

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Bell Lake South Unit 333H

WELL @ 3617.9usft (Original Well Elev)
WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| Planned Survey |
|----------------|
|----------------|

Company:

| • | | | | | | | | | | |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 17,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,411.7 | 139.4 | 800,894.93 | 460,021.47 | 6,412.72 | 0 |
| 17,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,461.6 | 137.9 | 800,893.52 | 460,071.45 | 6,462.68 | 0 |
| 18,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,511.6 | 136.5 | 800,892.10 | 460,121.43 | 6,512.65 | 0 |
| 18,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,561.6 | 135.1 | 800,890.69 | 460,171.41 | 6,562.61 | 0 |
| 18,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,611.6 | 133.7 | 800,889.27 | 460,221.39 | 6,612.57 | C |
| 18,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,661.6 | 132.3 | 800,887.86 | 460,271.37 | 6,662.54 | (|
| 18,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,711.5 | 130.9 | 800,886.45 | 460,321.35 | 6,712.50 | (|
| 18,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,761.5 | 129.5 | 800,885.03 | 460,371.33 | 6,762.47 | |
| 18,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,811.5 | 128.0 | 800,883.62 | 460,421.31 | 6,812.43 | (|
| 18,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,861.5 | 126.6 | 800,882.21 | 460,471.29 | 6,862.39 | |
| 18,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,911.5 | 125.2 | 800,880.79 | 460,521.27 | 6,912.36 | |
| 18,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 6,961.4 | 123.8 | 800,879.38 | 460,571.25 | 6,962.32 | |
| 18,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,011.4 | 122.4 | 800,877.97 | 460,621.23 | 7,012.29 | |
| 18,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,061.4 | 121.0 | 800,876.55 | 460,671.21 | 7,062.25 | |
| 18,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,111.4 | 119.6 | 800,875.14 | 460,721.19 | 7,112.21 | |
| 18,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,161.4 | 118.2 | 800,873.73 | 460,771.17 | 7,162.18 | |
| 18,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,211.3 | 116.7 | 800,872.31 | 460,821.15 | 7,212.14 | |
| 18,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,261.3 | 115.3 | 800,870.90 | 460,871.13 | 7,262.10 | |
| 18,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,311.3 | 113.9 | 800,869.49 | 460,921.11 | 7,312.07 | |
| 18,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,361.3 | 112.5 | 800,868.07 | 460,971.09 | 7,362.03 | |
| 18,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,411.3 | 111.1 | 800,866.66 | 461,021.07 | 7,412.00 | |
| 18,950.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,461.2 | 109.7 | 800,865.24 | 461,071.05 | 7,461.96 | |
| 19,000.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,511.2 | 108.3 | 800,863.83 | 461,121.03 | 7,511.92 | |
| 19,050.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,561.2 | 106.8 | 800,862.42 | 461,171.01 | 7,561.89 | |
| 19,100.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,611.2 | 105.4 | 800,861.00 | 461,220.99 | 7,611.85 | |
| 19,150.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,661.2 | 104.0 | 800,859.59 | 461,270.97 | 7,661.82 | |
| 19,200.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,711.1 | 102.6 | 800,858.18 | 461,320.95 | 7,711.78 | (|

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Bell Lake South Unit 333H

WELL @ 3617.9usft (Original Well Elev)
WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

| Planned Survey | | | | | | | | | | |
|-------------------|-------------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 19,250.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,761.1 | 101.2 | 800,856.76 | 461,370.93 | 7,761.74 | 0.00 |
| 19,300.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,811.1 | 99.8 | 800,855.35 | 461,420.91 | 7,811.71 | 0.00 |
| 19,350.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,861.1 | 98.4 | 800,853.94 | 461,470.89 | 7,861.67 | 0.00 |
| 19,400.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,911.1 | 97.0 | 800,852.52 | 461,520.87 | 7,911.63 | 0.00 |
| 19,450.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 7,961.0 | 95.5 | 800,851.11 | 461,570.85 | 7,961.60 | 0.00 |
| 19,500.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,011.0 | 94.1 | 800,849.70 | 461,620.83 | 8,011.56 | 0.00 |
| 19,550.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,061.0 | 92.7 | 800,848.28 | 461,670.81 | 8,061.53 | 0.00 |
| 19,600.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,111.0 | 91.3 | 800,846.87 | 461,720.79 | 8,111.49 | 0.00 |
| 19,650.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,161.0 | 89.9 | 800,845.46 | 461,770.77 | 8,161.45 | 0.00 |
| 19,700.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,210.9 | 88.5 | 800,844.04 | 461,820.75 | 8,211.42 | 0.00 |
| 19,750.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,260.9 | 87.1 | 800,842.63 | 461,870.73 | 8,261.38 | 0.00 |
| 19,800.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,310.9 | 85.6 | 800,841.21 | 461,920.71 | 8,311.35 | 0.00 |
| 19,850.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,360.9 | 84.2 | 800,839.80 | 461,970.69 | 8,361.31 | 0.00 |
| 19,900.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,410.9 | 82.8 | 800,838.39 | 462,020.67 | 8,411.27 | 0.00 |
| 19,922.0 | 90.00 | 358.38 | 11,826.7 | 8,208.8 | 8,432.9 | 82.2 | 800,837.77 | 462,042.66 | 8,433.26 | 0.00 |
| TD at 19922.0 - 9 | 5 1/2" Production | Casing | | | | | | | | |

| Casing Points | | | | | |
|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|-------------------------|
| | Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
| | 120.0 | 120.0 | 20" Conductor | 20 | 26 |
| | 1,447.0 | 1,447.0 | 13 3/8" Surface Casing | 13-3/8 | 17-1/2 |
| | 5,247.0 | 5,247.0 | 9 5/8" Intermediate Casing | 9-5/8 | 12-1/4 |
| | 19,922.0 | 11,826.7 | 5 1/2" Production Casing | 5-1/2 | 8-3/4 |

Morcor Standard Plan

KAISER-PRANCIS OIL COMPANY

Company: Kaiser Francis

Project: Bell Lake South Unit 333H
Site: Bell Lake South Unit 333H
Well: Bell Lake South Unit 333H
Wellbore: Bell Lake South Unit 333H
Design: 190303 Bell Lake South Unit 333H

Local Co-ordinate Reference:
TVD Reference:

Well Bell Lake South Unit 333H
WELL @ 3617.9usft (Original Well Elev)

TVD Reference: WELL @ 3617.9usft (Original Well Elev)

MD Reference: WELL @ 3617.9usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name | | Dip (°) | Dip Direction (°) |
|-----------------------------|-----------------------------|----------------------|------------|------------|-------------------------|
| 1,847.0 | 1,847.0 | | Littiology | 0.00 | () |
| 8,891.3 | | Bone Spring | | 0.00 | |
| 5,222.0 | | Lamar Lime | | 0.00 | |
| 11,188.2 | | 3rd Bone Spring Lime | | 0.00 | |
| 10,133.1 | | 1st Bone Spring Sand | | 0.00 | |
| 11,710.3 | | 3rd Bone Spring Sand | | 0.00 | |
| 9,084.3 | 9,079.0 | | | 0.00 | |
| 2,022.0 | 2,022.0 | Top of Salt | | 0.00 | |
| 5,022.0 | 5,022.0 | Base of Salt | | 0.00 | |
| 10,671.0 | 10,657.0 | 2nd Bone Spring Sand | | 0.00 | |
| 1,422.0 | 1,422.0 | Rustler | | 0.00 | |
| 5,422.0 | 5,422.0 | Bell Canyon | | 0.00 | |
| 7,747.0 | 7,747.0 | Brushy Canyon | | 0.00 | |
| 6,272.0 | 6,272.0 | Cherry Canyon | | 0.00 | |

| Plan Annotations | | | | | |
|------------------|----------|----------|-------------|---------|---------------------------------|
| M | easured | Vertical | Local Coord | dinates | |
| | Depth | Depth | +N/-S | +E/-W | |
| | (usft) | (usft) | (usft) | (usft) | Comment |
| | 7,980.0 | 7,980.0 | 0.0 | 0.0 | Start Build 3.00 |
| | 8,180.0 | 8,179.6 | 3.7 | 9.8 | Start 2830.0 hold at 8180.0 MD |
| | 11,010.0 | 10,994.1 | 107.3 | 286.9 | Start Drop -3.00 |
| | 11,210.0 | 11,193.8 | 110.9 | 296.7 | Start 60.0 hold at 11210.0 MD |
| | 11,270.0 | 11,253.8 | 110.9 | 296.7 | Start Build 10.00 |
| | 12,170.0 | 11,826.7 | 683.9 | 296.7 | Start 115.0 hold at 12170.0 MD |
| | 12,285.0 | 11,826.7 | 798.9 | 296.7 | Start Turn -1.62 |
| | 12,385.0 | 11,826.7 | 898.9 | 295.3 | Start 7537.0 hold at 12385.0 MD |
| | 19,922.0 | 11,826.7 | 8,432.9 | 82.2 | TD at 19922.0 |

| Checked By: | Approved By: | Date: | |
|-------------|--------------|-------|--|
| | | | |



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Repor

APD ID: 10400039810

Submission Date: 03/11/2019

Highlighted data reflects the most

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 333H

recent changes

Well Name: BELL LAKE UNIT SOUTH

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BLUS_333H_Existing_Roads_20190308141606.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

BLUS__333H__Access_Road_Map2_20200829085515.pdf

New road type: RESOURCE

Length: 214 Feet Width (ft.): 30

Max slope (%): 2 Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from BLM caliche pit in SWSW Section 22-T24S-R34E or

NENE Section 20-T23S-R33E

Onsite topsoil removal process: The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.

Access other construction information:

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistentwith local drainage patterns.

Road Drainage Control Structures (DCS) description: The ditches will be 3' wide with 3:1 slopes

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

BLUS_333H_1_Mile_Wells_Map_20190311124543.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Production facilities are planned for the north side of pad. Plan for initial wells: 2-1000 bbl water tanks and 5-1000 bbl oil tanks, a temporary 6X20 horizontal 3-phase sep, a 48" X 10' 3-phase sep, a 8 X 20' heater treater and a 48"X 10' 2-phase sep

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: FRESH WATER

Water source use type: STIMULATION

OTHER Describe use type: ROAD/PAD CONSTRUCTION AN

SURFACE CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: OTHER Describe transportation land ownership:

Water source volume (barrels): 250000 Source volume (acre-feet): 32.223274

Source volume (gal): 10500000

Water source type: OTHER

Describe type: BRINE WATER

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: OTHER Describe transportation land ownership:

Water source volume (barrels): 20000 Source volume (acre-feet): 2.577862

Source volume (gal): 840000

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Water source and transportation map:

BLUS__333H__Water_Source_Map_20190308143524.pdf

Water source comments: Source transportation land ownership is a mixture of Federal, State and County.

New water well? NO

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: On site caliche will be used for construction if sufficient. In the event insufficient quantities of caliche are available onsite, caliche will be trucked in from BLM's caliche pit in SWSW Section 22-T24-R34E or NENE Section 20-T23S-R33E.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Miscellaneous trash

Amount of waste: 500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash

container and disposed of properly **Safe containment attachment:**

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency: One Time Only

Safe containment description: Waste material will be stored safely and disposed of properly

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling fluids will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Cuttings will be hauled to R360's facility on US 62/180 at Halfway, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Cuttings will be stored in roll off bins and hauled to R360 on US 62/180 near Halfway.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

BLUS_333H_Drilling_Layout_20190308143842.pdf

BLUS__333H__Well_Site_Layout2_20200829084641.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: SOUTH BELL LAKE UNIT

Multiple Well Pad Number: 13

Recontouring attachment:

BLUS_333H_IR_Plat_20200826100447.pdf

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff and siltation of the surrounding area. As per request of rancher, a berm will be constructed along the east side of well pad.

Drainage/Erosion control reclamation: Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Well pad proposed disturbance

(acres): 5.97

Road proposed disturbance (acres):

N 148

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 6.118

Well pad interim reclamation (acres):

0.918

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Ω

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.918

Well pad long term disturbance

(acres): 5.052

Road long term disturbance (acres):

0.148

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 5.2

Disturbance Comments: Plan to reclaim 130' on the north side and 80' on the east side of well pad.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Last Name:

Phone: (432)684-9696 **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: No invasive species present. Standard regular maintenance to maintain a clear location and road.

Weed treatment plan attachment:

Monitoring plan description: Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

Monitoring plan attachment:

Success standards: To maintain all disturbed areas as per Gold Book standards

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Limestone Basin Properties

Fee Owner Address: 3300 N A St Ste 220

Phone: (432)695-6353

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Surface Use and Compensation Agreement exists between

COG Operating LLC and Kaiser-Francis Oil Company

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: COG Operating LLC

Fee Owner Address:

Phone: (432)683-7443

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Surface Use and Compensation Agreement exists between

COG Operating LLC and Kaiser-Francis Oil Company Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

PWD disturbance (acres):

APD ID: 10400039810 **Submission Date:** 03/11/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

PWD surface owner:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: BELL LAKE UNIT SOUTH Well Number: 333H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

01/08/2021

APD ID: 10400039810

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Type: OIL WELL

Submission Date: 03/11/2019

Highlighted data reflects the most recent changes

Well Number: 333H

Well Work Type: Drill

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: WYB000055

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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-F | Francis Oil Co | ompany | OGRID: _12 | 2361 | | Date: _12/_ | 7_/2022 |
|---|----------------|------------------------------|-------------------|--------------------------|-------------------|---------------------------|---------------------------------|
| II. Type: 🛛 Original [| ☐ Amendment | due to 19.15.27.9 | 9.D(6)(a) NMA | □ 19.15.27.9.D(| (6)(b) NM | AC □ Other. | |
| If Other, please describe | e: | | | | | | |
| III. Well(s): Provide the be recompleted from a s | | | | | wells propo | osed to be dri | lled or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticip Gas MC | | Anticipated roduced Water BBL/D |
| Bell Lake Unit South 333 30 | -025-50919 | UL-K Sec 5-T24S-R34E | 1802FSL 1945FW | L 1800 | 3000 | | 2000 |
| V. Anticipated Schedu proposed to be recomple Well Name | API | gle well pad or com | TD Reached Date | Completion Commencement | I | Initial Flow Back Date | First Production Date |
| Bell Lake Unit South 333 30 | 025-50919 | TBD | TBD | TBD | | TBD | TBD |
| VI. Separation Equipmed VII. Operational Prace Subsection A through F VIII. Best Management during active and planners. | of 19.15.27.8 | ch a complete descr NMAC. | iption of the act | ions Operator will | l take to c | comply with t | he requirements of |

Kaiser-Francis Oil Company Natural Gas Management Plan

Plan Description

VI. Separation Equipment

Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste.

VII. Operational Practices

A. VENTING AND FLARING OF NATURAL GAS

Kaiser-Francis Oil Company (KFOC) will maximize the recovery of natural gas by minimizing the waste of natural gas through venting and flaring during drilling, completion, and production operations as outlined in 19.15.27.8 NMAC. KFOC will flare rather than vent natural gas except when flaring is technically infeasible or would pose a safety risk and venting is a safer alternative than flaring. KFOC will ensure well(s) are connected to a natural gas gathering system with sufficient capacity to transport natural gas.

B. Venting and flaring during drilling operations

KFOC will combust natural gas brought to the surface during drilling operations. A properly sized flare stack will be located at a minimum of 100 feet from the nearest surface hole location. In case of emergency or malfunction, KFOC will report natural gas volumes, vented or flared.

C. Venting and flaring during completion or recompletion operations

During completion operations, KFOC will flare natural gas brought to the surface and commence operation of a separator once technically feasible. Produced natural gas from separation equipment will be sold. If natural gas does not meet gathering pipeline quality specifications, KFOC will flare for no more than 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner.

D. Venting and flaring during production operations

KFOC will not vent or flare natural gas during production, except for provisions defined by 19.15.27.8.D (1) through (4). KFOC will report natural gas volumes, vented or flared, appropriately.

E. Performance Standards

KFOC will comply with performance standards outlined in 19.15.27.8.E to minimize waste. Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste. Any permanent storage tank associated with production operations that is

routed to a flare or control device will be equipped with an automatic gauging system that reduces the venting of natural gas. KFOC will combust natural gas in a flare stack that is properly sized and designed to ensure proper combustion efficiency. Flare stacks will be equipped with an automatic ignitor or continuous pilot. KFOC will conduct an AVO inspection on the frequency specified in Subsection D of 19.15.27.8 NMAC. All emergencies will be resolved as quickly and safely as feasible.

F. Measurement or estimation of vented or flared natural gas

KFOC will measure or estimate natural gas that is vented, flared, or beneficially used during drilling, completion, and production operations. Equipment will be installed to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility, authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60,000 cubic feet of natural gas. Measuring equipment will conform to an industry standard. Where measuring is not feasible, volumes will be estimated.

VIII. Best Management Practices

During active and planned maintenance, venting will be limited to the depressurization of the equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut-in to eliminate venting. During VRU maintenance, gas normally routed to the VRU will be flared.

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 \square | will □ will not have | capacity to gather | 100% of the anticipated | natural gas |
|---------------------------------|--------------------------------|----------------------|--------------------|-------------------------|-------------|
| production volume from the well | prior to the date of first pr | oduction. | | | |

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

| \Box | A 441- (| `` | ? _ 1 | 4 | 4: | : | 4 - 41 - : | | |
|--------|----------|---------|---------|-----------|------------|-------------|------------|----------------|---------|
| 1 1 | A Hach C | merator | s mian | io manage | production | in response | io ine inc | creased line r | ressure |

| XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided | d 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 informa | tion |
| for which confidentiality is asserted and the basis for such assertion. | |

Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(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: |
|---|
| Printed Name: Aaron Daniels |
| Title: EHS Manager |
| E-mail Address: aarond@kfoc.net |
| Date: 12/7/2022 |
| Phone: 918-491-4352 |
| OIL CONSERVATION DIVISION |
| (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |
| |
| |
| |
| |

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 165292

CONDITIONS

| Operator: | OGRID: |
|-----------------------|---|
| KAISER-FRANCIS OIL CO | 12361 |
| PO Box 21468 | Action Number: |
| Tulsa, OK 74121146 | 165292 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|-------------------|
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 1/4/2023 |
| pkautz | 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 | 1/4/2023 |
| pkautz | 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 | 1/4/2023 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 1/4/2023 |