| Form 3160-3<br>(June 2015)   |                            | FORM APPROVED<br>OMB No. 1004-0137<br>Expires: January 31, 2018 |              |  |                          |  |
|--|----------------------------|---|--------------|--|--------------------------|--|
| UNITED STATI<br>DEPARTMENT OF THE<br>BUREAU OF LAND MAN  | INTERIOR                   |   |              | 5. Lease Serial No.<br>NMNM0000587                   |                          |  |
| APPLICATION FOR PERMIT TO  | DRILL OR                   | REENTER   |              | 6. If Indian, Allotee or                             | Tribe Name               |  |
| Ia. Type of work:  | REENTER                    |   |              | 7. If Unit or CA Agreen BELL LAKE / NMNM             |                          |  |
| 1b. Type of Well: Oil Well Gas Well  | Other                      |   |              | 8. Lease Name and Wel                                | -                        |  |
| 1c. Type of Completion: Hydraulic Fracturing   | Single Zone                | Multiple Zone   |              | . # /  | 7 <b>0</b> 7]            |  |
| Name of Operator     KAISER FRANCIS OIL COMPANY [12361]  |                            |   | - K          | 9, API Well No. <b>30</b> -                          | 025-48558                |  |
| 3a. Address<br>6733 S. Yale Ave., Tulsa, OK 74121  | 3b. Phone N<br>(918) 491-0 | o. (include area cod<br>000                                     | le)          | 10. Field and Pool, or E                             |                          |  |
| 4. Location of Well (Report location clearly and in accordance   | with any State             | requirements.*)   | -000         | 11. Sec., T R. M. or Bl                              |                          |  |
| At surface SENE / 1740 FNL / 175 FEL / LAT 32.336  |                            |   |              | SEC 6/T23S/R34E/N                                    | ИP                       |  |
| At proposed prod. zone SWSW / 330 FSL / 350 FWL /  | LAT 32.31278               | 37 / LONG -103,4  | 995503       | -02-   |                          |  |
| <ol> <li>Distance in miles and direction from nearest town or post o</li> <li>miles</li> </ol>   | ffice*                     |   |              | <ol><li>County or Parish<br/>LEA</li></ol>           | 13. State<br>NM          |  |
| 15. Distance from proposed* location to nearest property or lease line, ft.  | 16. No of ac               | res in lease  | 17. Spaci    | ng Unit dedicated to this                            | well                     |  |
| (Also to nearest drig. unit line, if any)  18. Distance from proposed location*  | 19. Proposed               | i Depth   | 20. BLM/     | BIA Bond No. in file                                 |                          |  |
| to nearest well, drilling, completed, applied for, on this lease, ft.  | 11434 feet                 | / 19697 feet  | FED: WY      | /B000055   |                          |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3453 feet  | 22. Approxis<br>06/01/2020 | mate date work will   | start*       | 23. Estimated duration<br>40 days                    |                          |  |
| The second secon | 24. Attacl                 | hments  |              |  |                          |  |
| The following, completed in accordance with the requirements (as applicable)  1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office.)   | tem Lands, the             | Bond to cover the Item 20 above).      Operator certification.  | ne operation | Hydraulic Fracturing rule as unless covered by an ex | isting bond on file (see |  |
| 25. Signature  |                            | (Printed/Typed)   |              | Da   | te                       |  |
| (Electronic Submission)  | STOR                       | MI DAVIS / Ph: (9   | 918) 491-0   | 000 02   | /04/2020                 |  |
| Title Regulatory Analyst   |                            |   |              |  |                          |  |
| Approved by (Signature) (Electronic Submission)  |                            | <i>(Printed/Typed)</i><br>_ayton / Ph: (575)                    | 234-5959     | Da 01  | te<br>/21/2021           |  |
| Title Assistant Field Manager Lands & Minerals   | Office                     | ad Field Office   |              |  |                          |  |
| Application approval does not warrant or certify that the application applicant to conduct operations thereon.   |                            | ad Field Office<br>or equitable title to t                      | hose rights  | in the subject lease which                           | would entitle the        |  |
| Conditions of approval, if any, are attached.  Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212,  | make it a crime            | for any person kno  | wingly and   | willfully to make to any                             | denartment or agency     |  |
| of the United States any false, fictitious or fraudulent statement   |                            |   |              |  | department of agency     |  |
| GCP Rec 03/15/2021   |                            |   |              |  |                          |  |
|  |                            | TH CONDIT   | IONS         | 03/15/   | 2021                     |  |
| SL   | WED WI                     | III VUITA   |              |  |                          |  |
| (Continued on page 2)  | ovel Date                  | 01/21/2021  |              | *(Instru   | ictions on page 2)       |  |

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: KAISER FRANCIS OIL COMPANY

LEASE NO.: | NMNM0000587

WELL NAME & NO.: | BELL LAKE UNIT NORTH 413H

**SURFACE HOLE FOOTAGE:** 1740'/N & 175'/E **BOTTOM HOLE FOOTAGE** 330'/S & 350'/W

**LOCATION:** | Section 6, T.23 S., R.34 E., NMPM

COUNTY: Lea County, New Mexico

COA

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

### A. HYDROGEN SULFIDE

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 1250 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

Page 1 of 8

- <u>hours</u> 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 10761 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

Page 2 of 8

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) 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**

Page 3 of 8

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

### GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County
    Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County
     Call 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 2<sup>nd</sup> 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

Page 4 of 8

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.

Page 5 of 8

- 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
  - 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.

Page 6 of 8

- 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

Page 7 of 8

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. DRILLING MUD

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

### D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

RI12212020

Page 8 of 8



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

### Application Data Report

APD ID: 10400053946

Submission Date: 02/04/2020

Highlighted data

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

reflects the most recent changes

Well Number: 413H

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

10400053946 Tie to previous NOS? N Submission Date: 02/04/2020

**BLM Office: CARLSBAD** 

APD ID:

User: Stormi Davis

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM0000587

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Zip: 74121

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? Y

**Permitting Agent?** YES

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.

Operator PO Box: PO Box 21468

**Operator City: Tulsa** 

State: OK

Operator Phone: (918)491-0000

**Operator Internet Address:** 

Section 2 - Well Information

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 NORTH

Well in Master Development Plan? NO

Well Number: 413H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: OJO CHISO

Pool Name: WOLFCAMP,

SOUTHWEST

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

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

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? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: 12

Well Class: HORIZONTAL NORTH 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:

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: BLUN\_413H\_C102\_20200203111156.pdf

BLUN 413H\_Pymt\_20200203134710.pdf

Well work start Date: 06/01/2020 Duration: 40 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 7661 Reference Datum: GROUND LEVEL

| 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<br>Leg<br>#1 | 174<br>0 | FNL          | 175     | FEL          | 235  | 34E   | 6       | Aliquot<br>SENE   | 32.33612<br>2 | -<br>103.5012<br>797 | LEA    | NEW<br>MEXI<br>CO |            |            | NMNM<br>000058<br>7 | 345<br>3      | 0         | 0         | N                                       |
| KOP<br>Leg<br>#1 | 174<br>0 | FNL          | 175     | FEL          | 23S  | 34E   | 6       | Aliquot<br>SENE   | 32.33612<br>2 | -<br>103.5012<br>797 | LEA    |                   | MEXI<br>CO |            | NMNM<br>000058<br>7 | -<br>740<br>7 | 108<br>60 | 108<br>60 | N                                       |

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

| 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        | DVT       | Will this well produce<br>from this lease? |
|--------------------|----------|--------------|---------|--------------|------|-------|---------|---------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------------|---------------|-----------|-----------|--|
| PPP<br>Leg<br>#1-1 | 190<br>0 | FNL          | 0       | FW<br>L      | 238  | 34E   | 5       | Aliquot<br>SWN<br>W | 32.33567<br>48 | -<br>103.5007<br>26  | LEA    | MEXI<br>CO        | NEW<br>MEXI<br>CO | F          | NMNM<br>000124<br>4A | -<br>787<br>0 | 114<br>00 | 113<br>23 | Υ  |
|                    | 264<br>0 | FSL          | 470     | FW<br>L      | 23S  | 34E   | 5       | Aliquot<br>NWS<br>W |                | -<br>103.4991<br>982 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>000058<br>7  | -<br>798<br>1 | 123<br>32 | 114<br>34 | Υ  |
| 1                  | 260<br>0 | FSL          | 470     | FW<br>L      | 23S  | 34E   | 5       | Aliquot<br>NWS<br>W | 32.33352<br>8  | -<br>103.4991<br>903 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>000058<br>7  | -<br>798<br>1 | 123<br>72 | 114<br>34 | Υ  |
| PPP<br>Leg<br>#1-4 | 0        | FNL          | 470     | FW<br>L      | 23S  | 34E   | 8       | Aliquot<br>NWN<br>W | 32.32638<br>3  | -<br>103.4993<br>154 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMLC0<br>064881      | -<br>798<br>1 | 149<br>72 | 114<br>34 | Y  |
| PPP<br>Leg<br>#1-5 | 264<br>0 | FSL          | 350     | FW<br>L      | 23S  | 34E   | 8       | Aliquot<br>NWS<br>W | 32.31912<br>71 | -<br>103.4994<br>402 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE                | -<br>798<br>1 | 176<br>12 | 114<br>34 | Υ  |
| EXIT<br>Leg<br>#1  | 330      | FSL          | 350     | FW<br>L      | 23S  | 34E   | 8       | Aliquot<br>SWS<br>W | 32.31278<br>37 | -<br>103.4995<br>503 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE                | -<br>798<br>1 | 196<br>97 | 114<br>34 | Υ  |
| BHL<br>Leg<br>#1   | 330      | FSL          | 350     | FW<br>L      | 23S  | 34E   | 8       | Aliquot<br>SWS<br>W | 32.31278<br>37 | -<br>103.4995<br>503 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE                | -<br>798<br>1 | 196<br>97 | 114<br>34 | Y  |

### **Melanie Wilson**

From: notification@pay.gov

Sent: Monday, February 3, 2020 1:45 PM

To: mjp1692@gmail.com

Subject: Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment



An official email of the United States government



Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact BLM OC CBS Customer Service at (303) 236-6795 or BLM\_OC\_CBS\_Customer\_Service@blm.gov.

Application Name: BLM Oil and Gas Online Payment

Pay.gov Tracking ID: 26N99SJ5 Agency Tracking ID: 75943593578

Transaction Type: Sale

Transaction Date: 02/03/2020 03:45:03 PM EST Account Holder Name: GEORGE B KAISER

Transaction Amount: \$10,230.00

Card Type: Visa

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

Company: Kaiser-Francis Oil Company

APD IDs: 10400053946

Lease Numbers: NMNM0000587

Well Numbers: 413H

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.

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



Pay gov is a program of the U.S. Department of the Treasury, Bureau of the Fiscal Service



APD ID: 10400053946

Well Type: OIL WELL

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

### Drilling Plan Data Report

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: KAISER FRANCIS OIL COMPANY

. DESTRUCTION NODES

Well Name: BELL LAKE UNIT NORTH

Well Number: 413H

Well Work Type: Drill

Submission Date: 02/04/2020

### **Section 1 - Geologic Formations**

| ormation |                |           | True Vertical | Measured |                 |                   | Producing |
|----------|----------------|-----------|---------------|----------|-----------------|-------------------|-----------|
| ID       | Formation Name | Elevation | Depth         | Depth    | Lithologies     | Mineral Resources |           |
| 652394   |                | 3453      | 0             | 0        | OTHER : Surface | NONE              | N         |
| 652395   |                | 2301      | 1152          | 1152     | SANDSTONE       | NONE              | N         |
| 652396   |                | 1931      | 1522          | 1522     | SALT            | NONE              | N         |
| 652397   |                | 1731      | 1722          | 1722     | SALT            | NONE              | N         |
| 652398   |                | -1169     | 4622          | 4622     | SALT            | NONE              | N         |
| 652399   |                | -1419     | 4872          | 4872     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652400   |                | -1619     | 5072          | 5072     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652401   |                | -2459     | 5912          | 5912     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652402   |                | -3819     | 7272          | 7272     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652403   |                | -5059     | 8512          | 8512     | LIMESTONE       | NATURAL GAS, OIL  | N         |
| 652404   | AVALON SAND    | -5122     | 8575          | 8575     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652405   |                | -6062     | 9515          | 9515     | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652412   |                | -6595     | 10048         | 10048    | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652419   |                | -7029     | 10482         | 10482    | LIMESTONE       | NATURAL GAS, OIL  | N         |
| 652420   |                | -7489     | 10942         | 10942    | SANDSTONE       | NATURAL GAS, OIL  | N         |
| 652421   |                | -7781     | 11234         | 11234    | SANDSTONE       | NATURAL GAS, OIL  | Υ         |

**Section 2 - Blowout Prevention** 

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

Pressure Rating (PSI): 5M Rating Depth: 13000

**Equipment:** A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. 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 MultiBowl Wellhead

**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:**

BLUN\_Pad\_12\_Choke\_Manifold\_20200203102656.pdf

### **BOP Diagram Attachment:**

Annular\_BOP\_Variance\_Request\_20200203095113.pdf
Cactus\_Flex\_Hose\_16C\_Certification\_20200203095241.pdf
BLUN\_413H\_BOP\_20200203120417.pdf
BLUN\_413H\_Well\_Head\_20200203120459.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<br>5 | 10.75    | NEW       | API      | N              | 0          | 1212          | 0           | 1212           | 3453        | 2241           | 1212                        | J-55        | 40.5   | ST&C                        | 2.8         | 5.5      | DRY           | 8.6      | DRY          | 12.8    |
| 2         | INTERMED<br>IATE | 9.87<br>5 | 7.625    | NEW       | API      | N              | 0          | 10761         | 0           | 10761          | 3452        | -7308          | 10761                       | HCP<br>-110 |        | LT&C                        | 1.3         | 1.9      | DRY           | 2.4      | DRY          | 2.9     |
| 3         | PRODUCTI<br>ON   | 6.75      | 5.5      | NEW       | API      | N              | 0          | 19697         | 0           | 11434          |             | -7981          | 19697                       | P-<br>110   | 1      | OTHER -<br>USS Eagle<br>SFH | 1.8         | 2        | DRY           | 2.8      | DRY          | 3.2     |

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

### **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

BLUN\_413H\_Casing\_Assumptions\_20200203120700.pdf

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

BLUN\_413H\_Casing\_Assumptions\_20200203120617.pdf

Casing ID: 3

String Type:PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

5.5\_x\_20\_P110\_HP\_USS\_EAGLE\_SFH\_Performance\_Sheet\_20200203095604.pdf

 $BLUN\_413H\_Casing\_Assumptions\_20200203120641.pdf$ 

**Section 4 - Cement** 

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

| String Type | Lead/Tail | Stage Tool<br>Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives    |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--------------|
| SURFACE     | Lead      |                     | 0      | 1212      | 584          | 1.72  | 13.5    | 1010  | 50      | ExtendaCem  | Poly E Flake |

| INTERMEDIATE | Lead | 0    | 1076<br>1 | 814 | 2.73 | 11   | 2224 | 25 | NeoCem   | Extender |
|--------------|------|------|-----------|-----|------|------|------|----|----------|----------|
| INTERMEDIATE | Tail | 0    | 1076<br>1 | 556 | 1.2  | 15.6 | 665  | 25 | Halcem   | none     |
| PRODUCTION   | Lead | 9000 | 1969<br>7 | 840 | 1.22 | 14.5 | 1027 | 15 | VersaCem | Halad    |

### **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 time.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

### **Circulating Medium Table**

| Top Depth | Bottom Depth | Mud Type                          | Min Weight (Ibs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | РН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1076<br>1 | 1143<br>4    | OIL-BASED<br>MUD                  | 10                   | 12                   |                     |                             |    |                |                |                 |                            |
| 1212      | 1076<br>1    | OTHER : Diesel-<br>Brine Emulsion | 8.8                  | 9.2                  |                     |                             |    |                |                |                 |                            |
| 0         | 1212         | OTHER : Fresh<br>Water            | 8.4                  | 9                    | ı                   |                             |    |                |                |                 |                            |

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

### 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:

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

Coring operation description for the well:

None planned

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 7135** 

**Anticipated Surface Pressure: 4619** 

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:

BLUN\_H2S\_Plan\_20200114113955.pdf

### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

BLUN\_413H\_\_\_Directional\_Plan\_20200203171914.pdf

Other proposed operations facets description:

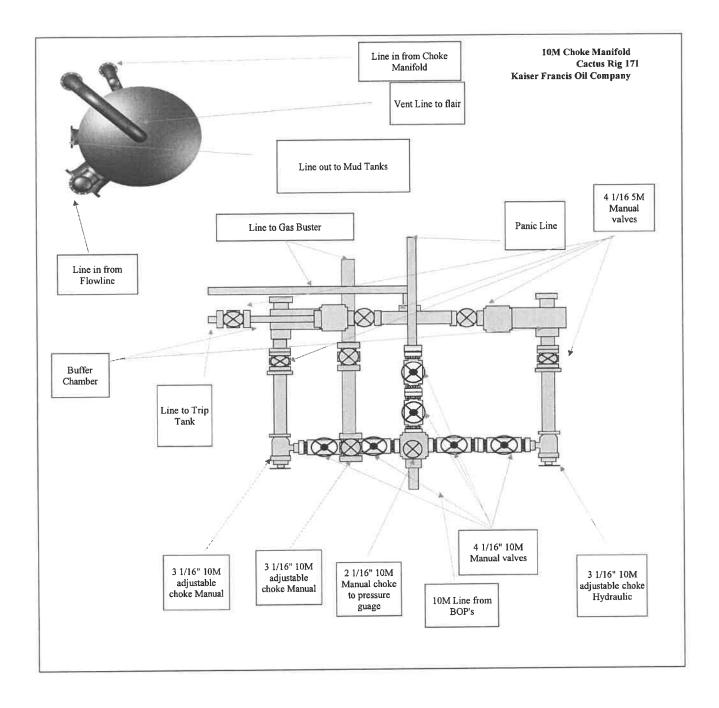
Gas Capture Plan attached

Other proposed operations facets attachment:

BLUN\_Pad\_12\_Gas\_Capture\_Plan\_20200124080249.pdf

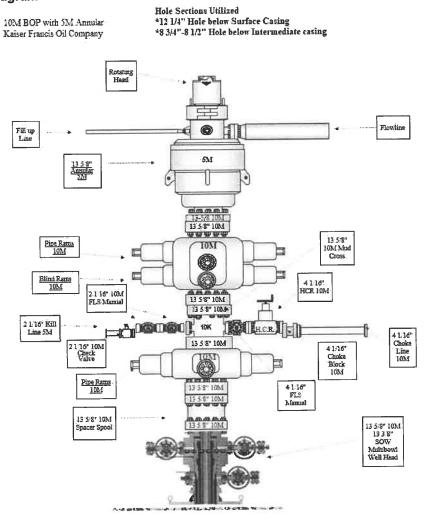
Other Variance attachment:

Cactus\_Flex\_Hose\_16C\_Certification\_20200203100413.pdf
BLUN\_413H\_Well\_Head\_20200203120914.pdf
BLUN\_419H\_5M\_Variance\_Request\_20200203134000.pdf
BLUN\_Well\_Control\_Plan\_20200203134000.pdf



Kaiser Francis Oil Co. request a variance to use a 5K psi annular BOP with a 10K BOP stack. Attached are Kaiser Francis Oil Co. minimum processes required to assure a proper shut-in while drilling, tripping, open hole, and moving BHA through the BOPs. A minimum of one well control drill will be performed weekly per tour, to regulate compliance with well control procedures and plans. Drills will be determined by operations, and will variate on drills conducted. Drills will consist of but are not limited to pit, trip, open hole, and choke drills. This well control plan will be available for review to all rig personnel. A copy of well control plan will be located in the Kaiser Francis Oil Co. representative's office on location, and on the rig floor during drilling operations. All BOP equipment will be tested per Onshore O&G Order No. 2 with the exception of the 5K annular which will be tested to 70% of it rated working pressure.

### A. BOP Diagram



Page 1 of 5

### B. Component and Preventer Compatibility Table

| Component                 | OD          | Preventer   | RWP              |
|---------------------------|-------------|---|------------------|
| Drill Pipe                | 4 1/2"      | Upper VBR: 3.5 – 5.5<br>Lower VBR: 3.5 – 5.5            | 10M              |
| Heavyweight Drill Pipe    | 4 1/2"      | Upper VBR: 3.5 – 5.5<br>Lower VBR: 3.5 – 5.5            | 10M              |
| Drill Collars & MWD Tools | 6 1/4"-4 ¾" | Annular<br>Upper VBR: 3.5 – 5.5<br>Lower VBR: 3.5 – 5.5 | 5M<br>10M<br>10M |
| Mud Motor                 | 8"-4 3/4"   | Annular<br>Upper VBR: 3.5 – 5.5<br>Lower VBR: 3.5 – 5.5 | 5M<br>10M<br>10M |
| Production Casing         | 5 1/2"      | Upper VBR: 3.5 – 5.5<br>Lower VBR: 3.5 – 5.5            | 10M              |
| Surface Casing            | 10-3/4"     | Annular   | 5M               |
| Intermediate Casing       | 7-5/8       | Annular   | 5M               |
| All                       | 0 – 13 5/8" | Annular   | 5M               |
| Open Hole                 |             | Blind Rams  | 10M              |

### C. Well Control Procedures

- I. General Procedures While Drilling:
  - a. Sound alarm alert crew
  - b. Space out drill string
  - c. Shut down pumps and stop rotary
  - d. Open HCR
  - e. Shut well in, utilizing upper VBRs
  - f. Close choke
  - g. Confirm shut in
  - h. Notify rig manager and KFOC, Inc. company representative
  - i. Call KFOC, Inc. engineer
  - j. Read and record:
    - i. Shut in drill pressure and shut in casing pressure
    - ii. Pit gain
    - iii. Time
  - k. Regroup, identify forward plan

### II. General Procedures While Tripping:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string
- d. Open HCR

Page 2 of 5

- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and KFOC. company representative
- i. Call KFOC. engineer
- j. Read and record:
  - i. Shut in drill pressure and shut in casing pressure
  - ii. Pit gain
  - iii. Time
- k. Regroup, identify forward plan

### III. General Procedures While Running Casing:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and KFOC company representative
- i. Call KFOC engineer
- j. Read and record:
  - i. Shut in drill pressure and shut in casing pressure
  - ii. Pit gain
  - iii. Time
- k. Regroup, identify forward plan

### IV. General Procedures With No Pipe in Hole (Open Hole):

- a. Sound alarm alert crew
- b. Open HCR
- c. Shut well in with blind rams
- d. Close choke
- e. Confirm shut in
- f. Notify rig manager and KFOC company representative
- g. Call KFOC engineer
- h. Read and record:
- i. Shut in drill pressure and shut in casing pressure
  - ii. Pit gain
  - iii. Time
- j. Regroup, identify forward plan

### V. General Procedures While Pulling BHA Through BOP Stack:

1. Prior to pulling last joint of drill pipe through stack A.

Perform flow check and if flowing:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string with tool joint just beneath upper pipe ram

Page 3 of 5

- d. Open HCR
- e. Shut well in utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and KFOC company representative
- i. Call KFOC engineer
- j. Read and record:
  - i. Shut in drill pressure and shut in casing pressure
  - ii. Pit gain
  - iii. Time
- k. Regroup, identify forward plan
- 2. With BHA in the BOP stack and compatible ram preventer and pipe combo immediately available.
  - a. Sound alarm alert crew
  - b. Stab full opening safety valve and close
  - c. Space out drill string with tool joint just beneath upper pipe ram
  - d. Open HCR
  - e. Shut well in utilizing upper VBRs
  - f. Close choke
  - g. Confirm shut in
  - h. Notify rig manager and KFOC. company representative
  - i. Call KFOC engineer
  - j. Read and record:
    - i. Shut in drill pressure and shut in casing pressure
    - ii. Pit gain
    - iii. Time
  - k. Regroup, identify forward plan
- 3. With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately available
  - a. Sound alarm alert crew
  - b. If possible to pick up high enough, pull string clear of the stack and follow Open Hole scenario (III)
  - c. If impossible to pick up high enough to pull the string clear of the stack:
    - Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close
    - ii. Space out drill string with tool joint just beneath the upper pipe ram
    - iii. Open HCR
    - iv. Shut in utilizing upper VBRs
    - v. Close choke
    - vi. Confirm shut in
    - vii. Notify rig manager and Mesquite SWD, Inc. company representative
    - viii. Read and record:
      - 1. Shut in drill pipe pressure and shut in casing pressure
      - 2. Pit gain
      - 3. Time

Page 4 of 5

d. Regroup and identify forward plan

 $<sup>^{\</sup>star\star}$  If annular is used to shut in well and pressure build to or is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut in.

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

Bell Lake Unit North SECTION 1 -T23S-R33E SECTION 6 -T23S-R34E SECTION 5 -T23S-R34E

LEA COUNTY, NM

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

### TABLE OF CONTENTS

| Emergency 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 <sub>2</sub> S And SO <sub>2</sub>    | 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.
- 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  $H_2S$  siren and lights.

### All Personnel:

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

### Rig Manager/Tool Pusher:

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

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

- 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:

Isolate the area and prevent entry by other persons into the 100 ppm ROE.

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

### Kaiser-Francis Oil Company Representative:

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

### PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

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

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

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

### **INSTRUCTIONS FOR IGNITION:**

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

### **CONTACTING AUTHORITIES**

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

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

| Kaiser-Francis Oil Co. | <u>OFFCE</u><br>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<br>800/844-8451 |

### PROTECTION OF THE GENERAL PUBLIC/ROE:

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

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

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

### Calculation for the 100 ppm ROE:

(H2S concentrations in decimal form)

X = [(1.589)(concentration)(Q)] (0.6258)

10,000 ppm +=1.+ 1,000 ppm +=.1+

Calculation for the 500 ppm ROE:

100 ppm +=.01+ 10 ppm +=.001+

X+[(0.4546)(concentration)(Q)] (.06258)

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

ROE for 100 PPM

X=[(1.589)(.0150)(200)](0.6258)

X=2.65'

ROE for 500 PPM

X=[(.4546)(.0150)(200)] (0.6258)

X=1.2'

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

### PUBLIC EVACUATION PLAN:

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

- Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.
- 2) A trained person in H<sub>2</sub>S safety, shall monitor with detection equipment the H<sub>2</sub>S Concentration, wind and area of exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment will be UL approved, for use in class I groups A,B,C & D, Division I, hazardous locations. All monitors will have a minimum capability of measuring H<sub>2</sub>S, oxygen, and flammable values.)
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 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<br>Name      | Chemical<br>Formula | Specific<br>Gravity | Threshold Limit | Hazardous<br>Limit | Lethal<br>Concentration |
|---------------------|---------------------|---------------------|-----------------|--------------------|-------------------------|
| Hydrogen<br>Sulfide | H₂S                 | 1.189<br>Air = 1    | 10 ppm          | 100 ppm            | 600 ppm                 |
| Sulfur Dioxide      | SO <sub>2</sub>     | 2.21<br>Air = 1     | 2 ppm           | N/A                | 1000 ppm                |

### TRAINING:

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

### **PUBLIC RELATIONS**

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

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

## Kaiser Francis

Bell Lake Unit North 413H Plan: 191214 Bell Lake Unit North 413H

# **Morcor Standard Plan**

03 February, 2020

COMPASS 5000.1 Build 56

## Morcor Engineering

Morcor Standard Plan

| <br>Company: Project: Site: Well: Wellbore: Design: | Kaiser Francis Bell Lake Unit North 413H J11214 Bell Lake Unit North 413H | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db |
|---|---|---|---|
| Project<br>Map System:<br>Geo Datum:                | US State  | System Datum:   | Mean Sea Level  |

| Vell Position         +Nr-S         0.0 usft         Northing:         487,011.35 usft         Latitude:         32* 20* 10.0           +ELW         0.0 usft         Easting:         798,322.73 usft         Longitude:         103* 30* 4.6 | lell          | Bell  | Bell Lake Unit North 413H |           |                 |            |                  |
|--|---------------|-------|---------------------------|-----------|-----------------|------------|------------------|
| +E-W 0.0 usft Easting: 798,322.73 usft Longitude:  | fell Position | S-/N+ | 0.0 usft                  | Northing: | 487,011.35 usft | Latitude:  | 32° 20' 10.039 N |
|  |               | +E/-W | 0.0 usft                  | Easting:  | 798,322.73 usft | Longitude: | 103° 30' 4.607 W |

32° 20' 10.039 N 103° 30' 4.607 W 0.45°

Latitude: Longitude: Grid Convergence:

487,011.35 usft 798,322.73 usft 17-1/2 "

Northing: Easting: Slot Radius:

Bell Lake Unit North 413H

1.0 usft

Мар

Position Uncertainty:

Site Position: From:

Site

| Wellbore  | Bell Lake Unit North 413H        | th 413H         |                 |           |                        |  |
|-----------|----------------------------------|-----------------|-----------------|-----------|------------------------|--|
| Magnetics | Model Name                       | Sample Date     | Declination (°) | Dip Angle | Field Strength<br>(nT) |  |
|           | IGRF2010                         | 12/14/2019      | 6.50            | 80.09     | 47,839                 |  |
|           |                                  |                 |                 |           |                        |  |
| Desian    | 191214 Bell Lake Unit North 413H | Unit North 413H |                 |           |                        |  |

| Audit Notes:<br>Version: |              | Phase: PLAN                                       | N               | Tie On Depth:  | 0.0            |  |
|--------------------------|--------------|---|-----------------|----------------|----------------|--|
| Vertical Section:        |              | Depth From (TVD)<br>(usft)                        | +N/-S<br>(nstt) | +E-W<br>(usft) | Direction (°)  |  |
|                          |              | 0.0   | 0.0             | 0.0            | 175.95         |  |
| Survey Tool Program      | Date         | Date 2/3/2020                                     |                 |                |                |  |
| From (usft)              | To<br>(usft) | Survey (Wellbore)                                 | Tool Name       |                | Description    |  |
| 0.0                      |              | 19.920.3 191214 Bell Lake Unit North 413H (Bell L | i La MWD        | - MWD -        | MWD - Standard |  |

COMPASS 5000.1 Build 56

Morcor Engineering

Morcor Standard Plan

| Project: Site: Well: Wellbore:                | Kaiser Francis Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H | s<br>t North 4<br>t North 4<br>t North 4<br>t North 4 | 13H<br>13H<br>13H<br>13H<br>North 413H |               |   |               | Local Co-ordinate TVD Reference: MD Reference: North Reference: Survey Calculatic Database: | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original W WELL @ 3575.1usft (Original W Grid Minimum Curvature EDM 5000.1 Single User Db | Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db |                     |
|---|---|---|--|---------------|---|---------------|---|---|---|---|---------------------|
| Planned Survey                                |   |   |  |               |   |               |   |   |   |   |                     |
| MD  | Inc   |   | Azi (azimuth)                          | TVD<br>(usft) | TVDSS (usft)                            | N/S<br>(usft) | E/W<br>(usft)   | Easting<br>(usft)   | Northing<br>(usft)  | V. Sec<br>(usft)  | DLeg<br>(*/100usft) |
| hen   | 0.0   | 0.00  |  | 0.0           | -3,575.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| •   | 100.0   | 0.00  | 0.00                                   | 100.0         | -3,475.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| •-  | 120.0   | 00.00   | 00:00                                  | 120.0         | -3,455.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 0.00                |
| 20" Cc  | 20" Conductor   | 0   | CO                                     | 200.0         | -3.375.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 0.00                |
| . **  | 300.0   | 00.00   |  | 300.0         | -3,275.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| •   | 400.0   | 0.00  | 0.00                                   | 400.0         | -3,175.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
|   | 900.0   | 0.00  | 0.00                                   | 200.0         | -3,075.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00'0  | 0.00                |
| ,   | 0.009   | 0.00  | 0.00                                   | 0.009         | -2,975.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 0.00                |
|   | 700.0   | 0.00  | 0.00                                   | 700.0         | -2,875.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 0.00                |
|   | 800.0   | 00.0  | 0.00                                   | 800.0         | -2,775.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
|   | 0.006   | 0.00  | 0.00                                   | 0.006         | -2,675.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00:00   | 0.00                |
| ÷   | 1,000.0   | 0.00  | 0.00                                   | 1,000.0       | -2,575.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 00.00               |
| ÷   | 1,100.0   | 0.00  | 0.00                                   | 1,100.0       | -2,475.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| Ť,  | 1,152.0   | 0.00  | 00:00                                  | 1,152.0       | -2,423.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| Rustler                                       | J.  |   |  |               | 1 | •             | c   | 200 202 73  | A87 011 35  | 000   | 000                 |
| +,  | 1,200.0   | 0.00  | 0.00                                   | 1,200.0       | -2,3/5.1                                | 0.0           |   |   | 20,000  | 8   |                     |
| Ψ,  | 1,212.0   | 0.00  | 00:00                                  | 1,212.0       | -2,363.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| 13 3/8  | 13 3/8" Surface Casing  |   | 00.0                                   | 1.300.0       | -2.275.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| -   | 1.400.0   | 0.00  |  | 1,400.0       | -2,175.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| <del></del>                                   | 1,500.0   | 0.00  |  | 1,500.0       | -2,075.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 00.00   | 0.00                |
| +   | 1,522.0   | 0.00  |  | 1,522.0       | -2,053.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| Salado  | ٥   |   |  |               |   |               |   |   |   |   |                     |
| <u>, , , , , , , , , , , , , , , , , , , </u> | 1,600.0   | 0.00  | 0.00                                   | 1,600.0       | -1,975.1                                | 0.0           | 0.0   |   | 487,011.35  | 0.00  | 00.0                |
| 1   | 1,700.0   | 0.00  | 00:00                                  | 1,700.0       | -1,875.1                                | 0.0           | 0.0   |   | 487,011.35  | 0.00  | 0.00                |
| +   | 1,722.0   | 00.00   | 00:00                                  | 1,722.0       | -1,853.1                                | 0.0           | 0.0   | 798,322.73  | 487,011.35  | 0.00  | 0.00                |
| Ter of Colt                                   | 77-4-1  |   |  |               |   |               |   |   |   |   |                     |

Page 3

ć

2/3/2020 3:54:42PM

Released to Imaging: 3/15/2021 3:06:01 PM

COMPASS 5000.1 Build 56

## Morcor Engineering

Morcor Standard Plan

| Diamod Survey | Bell Lake Unit North 413H<br>191214 Bell Lake Unit North 413H | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>191214 Bell Lake Unit North 413H |             |          |     | TVD Reference: MD Reference: North Reference: Survey Calculatic | TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | WELL @ 3575.1usft (Origina<br>WELL @ 3575.1usft (Origina<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db | WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db | 8.6                 |
|---------------|---|---|-------------|----------|-----|---|--|--|--|---------------------|
| MD MD         | <u>n</u>  | Azi (azimuth)   | QVT<br>Beil | TVDSS    | N/S | E.W.  | Easting<br>(usft)  | Northing<br>(usft)   | V. Sec<br>(usft)   | DLeg<br>(*/100usft) |
| (usit)        | 00'0  |   | 1,800.0     | -1,775.1 | 0.0 | 0.0   |  | 487,011.35   | 00.0   | 0.00                |
| 1,900.0       | 0.00  |   | 1,900.0     | -1,675.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 2,000.0       | 00.00   | 0.00  | 2,000.0     | -1,575.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 2,100.0       | 0.00  | 0.00  | 2,100.0     | -1,475.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 2,200.0       | 0.00  | 0.00  | 2,200.0     | -1,375.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 00.00               |
| 2,300.0       | 0.00  | 0.00  | 2,300.0     | -1,275.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 2,400.0       | 0.00  | 00:00   | 2,400.0     | -1,175.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 2.500.0       | 0.00  | 0.00  | 2,500.0     | -1,075.1 | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 2.600.0       | 0.00  | 0.00  | 2,600.0     | -975.1   | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 2,700.0       | 0.00  | 0.00  | 2,700.0     | -875.1   | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 2,800.0       | 0.00  | 0.00  | 2,800.0     | -775.1   | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 2,900.0       | 0.00  | 00.00   | 2,900.0     | -675.1   | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 3.000.0       | 00.00   | 0.00  | 3,000.0     | -575.1   | 0.0 | 0.0   | 0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 3,100.0       | 0.00  |   | 3,100.0     | 475.1    | 0.0 | 0.0   | .0 798,322.73  | 487,011.35   | 00.00  | 0.00                |
| 3,200.0       | 0.00  |   | 3,200.0     | -375.1   | 0.0 | 0.0   | .0 798,322.73  | 487,011.35   | 0.00   | 0.00                |
| 3,300.0       | 0.00  | 00.00   | 3,300.0     | -275.1   | 0.0 | 0.0   | .0 798,322.73  | 487,011.35   | 0.00   | 0.00                |
| 3,400.0       | 0.00  | 00.00   | 3,400.0     | -175.1   | 0.0 | 0.0   | .0 798,322.73  | 487,011.35   | 0.00   | 0.00                |
| 3,500.0       | 0.00  | 0.00  | 3,500.0     | -75.1    | 0.0 | 0.0   | .0 798,322.73  | 487,011.35   | 00:00  | 0.00                |
| 3,600.0       | 0.00  | 00.00   | 3,600.0     | 24.9     | 0.0 | 0   | 0.0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
| 3,700.0       | 0.00  | 00.00   | 3,700.0     | 124.9    | 0.0 | 0   | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 3,800.0       | 0.00  | 00.00   | 3,800.0     | 224.9    | 0.0 | 0   | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 3,900.0       | 0.00  | 0.00  | 3,900.0     | 324.9    | 0.0 | o.  | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 4,000.0       | 0.00  | 0.00  | 4,000.0     | 424.9    | 0.0 |   | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 4,100.0       | 00.00   | 0.00  | 4,100.0     | 524.9    | 0.0 |   | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 4,200.0       | 0.00  | 0.00  | 4,200.0     | 624.9    | 0.0 | Ö   | 0.0 798,322.73   | 487,011.35   | 0.00   | 0.00                |
| 4,300.0       | 0.00  | 00.00   | 4,300.0     | 724.9    | 0.0 |   | 0.0 798,322.73   | 487,011.35   | 00.00  | 0.00                |
|               |   |   |             |          |     |   |  |  |  |                     |

2/3/2020 3:54:42PM

Page 4

# **Morcor Engineering**

Morcor Standard Plan

| Company: Project: Site: Well: Wellbors: Design: | Raiser Francis Bell Lake Unit North 413H | it North 41<br>if North 41<br>it North 41<br>it North 41<br>Lake Unit I | 3H<br>3H<br>3H<br>North 413H |                   |                 |    | Data | TVD Reference:<br>MD Reference:<br>North Reference:<br>Survey Calculation Method:<br>Database: | n Method:  | WELL @ 3575.1usff (Original Well Elev) WELL @ 3575.1usff (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db | WELL @ 3575.1usft (Original Well E<br>WELL @ 3575.1usft (Original Well E<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db | ilev) |       |
|---|--|---|------------------------------|-------------------|-----------------|----|------|--|------------|--|--|-------|-------|
| Planned Survey                                  | lnc  |   | Azi (azimuth)                | QVT<br>a          | TVDSS           | SN | EW   | > 4  | Easting    | Northing<br>(neft)   | V. Sec   | DLeg  |       |
| (usft)  | 4 500 0  | 000   | 0000                         | (usit)<br>4.500.0 | (usit)<br>924.9 |    | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 0.00  |
| t 4   | 4,500.0  | 00.0  | 00.0                         | 4,600.0           | 1,024.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 00.0  |
| 9,4   | 4,622.0  | 0.00  | 00.00                        | 4,622.0           | 1,046.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 00.00 |
| Base of Salt                                    | e of Salt<br>4.700.0   | 0.00  | 0.00                         | 4,700.0           | 1,124.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 4,8   | 4,800.0  | 0.00  | 0.00                         | 4,800.0           | 1,224.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 00.0  |
| 4,8   | 4,872.0  | 0.00  | 0.00                         | 4,872.0           | 1,296.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 00.0  |
| Lamar<br>4.9                                    | nar<br>4,900.0   | 0.00  | 0.00                         | 4,900.0           | 1,324.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 0.00  |
| 5.0   | 5,000.0  | 0.00  | 0.00                         | 5,000.0           | 1,424.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 0.00  |
| 5,0   | 5,072.0  | 0.00  | 0.00                         | 5,072.0           | 1,496.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 00.00 |
| Bell Canyon<br>5,100.0                          | <b>Canyon</b> 5,100.0  | 0.00  | 0.00                         | 5,100.0           | 1,524.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| ĸ   | 5.200.0  | 0.00  | 0.00                         | 5,200.0           | 1,624.9         | U  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 5,3   | 5,300.0  | 0.00  | 0.00                         | 5,300.0           | 1,724.9         | 0  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 5,4   | 5,400.0  | 0.00  | 0.00                         | 5,400.0           | 1,824.9         | J  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   |       | 0.00  |
| 5,6   | 5,500.0  | 0.00  | 0.00                         | 5,500.0           | 1,924.9         | J  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 9,6   | 5,600.0  | 0.00  | 0.00                         | 5,600.0           | 2,024.9         | Ü  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.0   |
| 5.7   | 5,700.0  | 0.00  | 0.00                         | 5,700.0           | 2,124.9         | J  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 5,5   | 5,800.0  | 0.00  | 0.00                         | 5,800.0           | 2,224.9         | J  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 2,6   | 5,900.0  | 0.00  | 0.00                         | 5,900.0           | 2,324.9         | Ü  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 00.00  | 0     | 0.00  |
| 5,6   | 5,912.0  | 0.00  | 00.00                        | 5,912.0           | 2,336.9         | Ū  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| Cherry,<br>6,0                                  | Cherry Canyon<br>6,000.0   | 0.00  | 0.00                         | 0.000,8           | 2,424.9         | J  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | a     | 0.00  |
| . 'g'   | 6,100.0  | 00.00   | 00:00                        | 6,100.0           | 2,524.9         |    | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 9   | 6,200.0  | 00.00   | 0.00                         | 6,200.0           | 2,624.9         | _  | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| 9,59  | 6,300.0  | 0.00  | 0.00                         | 6,300.0           | 2,724.9         |    | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |
| ď   | 8 400 0  | 0   | 000                          | 6.400.0           | 2.824.9         |    | 0.0  | 0.0  | 798,322.73 | 487,011.35   | 0.00   | 0     | 0.00  |

Page 5

# Morcor Engineering

Morcor Standard Plan

| Company: K<br>Project: B<br>Site: B | Kaiser Francis<br>Bell Lake Unit North 413H<br>Bell Lake Unit North 413H            | orth 413H<br>orth 413H   |               |              |               | i F Z | TVD Reference:  |                   | WELL @ 3575.1usft (Original Well Elev)<br>WELL @ 3575.1usft (Original Well Elev) | t (Original Well Eld<br>t (Original Well Eld | (Ac                 |
|-------------------------------------|---|--|---------------|--------------|---------------|-------|---|-------------------|--|--|---------------------|
| ore:                                | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>191214 Bell Lake Unit Nor | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>191214 Bell Lake Unit North 413H |               |              |               | 200   | North Reference:<br>Survey Calculation Method:<br>Database: | :<br>on Method:   | Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db                           | User Db                                      |                     |
| Planned Survey                      |   |  |               |              | Į.            |       |   |                   |  |  |                     |
| QWD (Heath)                         | Inc   | Azi (azimuth)  | QVT<br>(usff) | TVDSS (usft) | N/S<br>(usft) |       | E/W<br>(usft)   | Easting<br>(usft) | Northing<br>(usft)   | V. Sec<br>(usft)                             | DLeg<br>(*/100usft) |
| 6,500.0                             |   | 0.00 0.00  | 6,500.0       | 2,924.9      |               | 0:0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 0.600.0                             |   | 0.00 0.00  | 6,600.0       | 3,024.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 6.700.0                             |   |  | 6,700.0       | 3,124.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 6,800.0                             |   | 00.0 0.00  | 6,800.0       | 3,224.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 0.006,9                             |   | 0.00 0.00  | 0.006,8       | 3,324.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,000.0                             | _   | 0.00 0.00  | 7,000.0       | 3,424.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7.100.0                             |   | 00.00 00.00  | 7,100.0       | 3,524.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,200.0                             |   |  | 7,200.0       | 3,624.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,272.0                             | _   | 0.00 0.00  | 7,272.0       | 3,696.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| Brushy Canyon                       | noyu  |  |               |              |               | ,     |   | 0000              | 100  | d  | d                   |
| 7,300.0                             | _   | 0.00 0.00  | 7,300.0       | 3,724.9      |               | 0.0   | 0.0   | 130,322.13        | 407,110,53   | 0.00   |                     |
| 7,400.0                             | _   | 0.00 0.00  | 7,400.0       | 3,824.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,500.0                             | _   | 0.00 0.00  | 7,500.0       | 3,924.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,600.0                             | _   | 0.00 0.00  | 7,600.0       | 4,024.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,700.0                             | _   | 00.00 00.00  | 7,700.0       | 4,124.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 00.00               |
| 7,800.0                             | •   | 0.00 0.00  | 7,800.0       | 4,224.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 7,900.0                             | •   | 0.00 0.00  | 7,900.0       | 4,324.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,000.0                             | _   | 0.00 0.00  | 8,000.0       | 4,424.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,100.0                             | -   | 00.00 00.00  | 8,100.0       | 4,524.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,200.0                             | 0   | 0.00 0.00  | 8,200.0       | 4,624.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,300.0                             |   | 0.00 0.00  | 8,300.0       | 4,724.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,400.0                             |   | 0.00 0.00  | 8,400.0       | 4,824.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 00:00               |
| 8,500.0                             | •   | 0.00 0.00  | 8,500.0       | 4,924.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| 8,512.0                             | c   | 0.00 0.00  | 8,512.0       | 4,936.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
| Bone Spring<br>8,575.0              | 9<br>0  | 0.00   | 8,575.0       | 4,999.9      |               | 0.0   | 0.0   | 798,322.73        | 487,011.35   | 0.00   | 0.00                |
|                                     |   |  |               |              |               |       |   |                   |  |  |                     |

Page 6

2/3/2020 3:54:42PM

Released to Imaging: 3/15/2021 3:06:01 PM

# Morcor Engineering

Morcor Standard Plan

| Mathematical   Math | Site:                      | Bell Lake Un<br>Bell Lake Un                | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H |              |                   |                   |     | TVD Reference:                          | TVD Reference:<br>MD Reference: | WELL @ 3575.1usft (Original W<br>WELL @ 3575.1usft (Original M | WELL @ 3575.1usft (Original Well Elev) | इ इ  |
|--|----------------------------|---|--|--------------|-------------------|-------------------|-----|---|---------------------------------|--|--|------|
| Inc.   Azi (poliment)   TVD  | ell:<br>ellbore:<br>esign: | Bell Lake Un<br>Bell Lake Un<br>191214 Bell | iit North 413H<br>iit North 413H<br>Lake Unit Nort     | h 413H       |                   |                   |     | North Refer<br>Survey Calc<br>Database: | ence:<br>:ulation Method:       | Grid<br>Minimum Curvatu<br>EDM 5000.1 Sing                     | ire<br>jle User Db                     |      |
| 55000         0.00 <t< th=""><th>anned Surv</th><th></th><th></th><th>ti (azimuth)</th><th>D. T.</th><th>TVDSS</th><th>SIN</th><th>EW</th><th>Easting</th><th>Northing</th><th>V. Sec</th><th>DLeg</th></t<>   | anned Surv                 |   |  | ti (azimuth) | D. T.             | TVDSS             | SIN | EW                                      | Easting                         | Northing   | V. Sec                                 | DLeg |
| 000         6,600         3,224.9         0.0         0.0         788,322.73         487,011.35         0.0           000         6,700         6,700         3,124.9         0.0         0.0         788,322.73         487,011.35         0.0           000         0.00         6,700         3,124.9         0.0         0.0         788,322.73         487,011.35         0.0           000         0.00         7,000         3,524.9         0.0         0.0         788,322.73         487,011.35         0.0           0.00         0.00         7,000         3,524.9         0.0         0.0         788,322.73         487,011.35         0.0           0.00         0.00         7,200         3,524.9         0.0         0.0         788,322.73         487,011.35         0.0           0.00         0.00         7,200         3,524.9         0.0         0.0         788,222.73         487,011.35         0.0           0.00         0.00         7,200         3,524.9         0.0         0.0         788,227.73         487,011.35         0.0           0.00         0.00         7,500         3,524.9         0.0         0.0         788,227.73         487,011.35         0.0  | (usft)                     |   |  |              | (usft)<br>6.500.0 | (usft)<br>2.924.9 |     |   | 3                               | 3  |  |      |
| 0.00         0.00         67000         17449         0.0         798,32273         487,011.35         0.00           0.00         6,000         3,2249         0.0         0.0         798,32273         487,011.35         0.00           0.00         6,000         3,2249         0.0         0.0         798,32273         487,011.35         0.00           0.00         6,000         3,2249         0.0         0.0         788,32273         487,011.35         0.00           0.00         7,000         3,5249         0.0         0.0         788,32273         487,011.35         0.00           0.00         7,000         3,5249         0.0         0.0         788,32273         487,011.35         0.00           0.00         7,000         3,5249         0.0         0.0         788,32273         487,011.35         0.00           0.00         7,000         3,7249         0.0         0.0         788,32273         487,011.35         0.00           0.00         7,000         3,7249         0.0         0.0         788,32273         487,011.35         0.00           0.00         0.00         7,000         3,2249         0.0         0.0         788,32273   | ī <u>u</u>                 | 0.00  |  | 000          | 6 600 0           | 3 024 9           | 0.0 | 0                                       |                                 |  | 0.00                                   | 0    |
| 0.00         0.00         6,800.0         3,224.9         0.0         798,322.73         487,011.35         0.00           0.00         0.00         6,800.0         3,324.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,000.0         3,524.9         0.0         0.0         789,322.73         487,011.35         0.00           0.00         0.00         7,200.0         3,524.9         0.0         0.0         789,322.73         487,011.35         0.00           0.00         0.00         7,200.0         3,524.9         0.0  | σ΄ w                       | 700.0                                       | 0.00   | 0.00         | 6,700.0           | 3,124.9           | 0.0 | 0                                       |                                 |  | 0.00                                   |      |
| 0.00         0.00         6,900 (0)         3,324.9         0.0         788,322.73         487,011.35         0.00           0.00         0.00         7,000 (0)         3,424.9         0.0         0         788,322.73         487,011.35         0.00           0.00         0.00         7,000 (0)         3,524.9         0.0         0         788,322.73         487,011.35         0.00           0.00         0.00         7,200 (0)         3,524.9         0         0         0         788,322.73         487,011.35         0         0           0.00         0.00         7,200 (0)         3,724.9         0         0         788,322.73         487,011.35         0         0           0.00         0.00         7,400 (0)         3,724.9         0   |                            | 800.0                                       | 0.00   | 0.00         | 6,800.0           | 3,224.9           | 0.0 | 0                                       |                                 |  | 0.00                                   |      |
| 0,00         0,00         7,000         3,424.9         0,0         798,322.73         487,011.35         0,00           0,00         0,00         7,100         3,524.9         0,0         798,322.73         487,011.35         0,00           0,00         0,00         7,200         3,524.9         0,0         0,0         798,322.73         487,011.35         0,00           0,00         0,00         7,200         3,524.9         0,0         0,0         798,322.73         487,011.35         0,00           0,00         0,00         7,200         3,524.9         0,0         0,0         798,322.73         487,011.35         0,00           0,00         0,00         7,400         3,524.9         0,0         0,0         798,322.73         487,011.35         0,0           0,00         0,00         7,500         4,524.9         0,0         0,0         798,322.73         487,011.35         0,0           0,00         0,00         7,500         4,224.9         0,0         0,0         798,322.73         487,011.35         0,0           0,00         0,00         7,500         4,524.9         0,0         0,0         798,322.73         487,011.35         0,0   | 9,                         | 0.006                                       | 0.00   | 00.00        | 6,900.0           | 3,324.9           | 0.0 | 0                                       |                                 |  | 00'0                                   | 0    |
| 0.00         0.00         7,100.0         3,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,200.0         3,654.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,200.0         3,666.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,400.0         3,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,400.0         3,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,500.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,500.0         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,800.0         4,424.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,800.0         4,424.9         0.0         0.0         798,322.73   | 1,'2                       | 0.000                                       | 0.00   | 00.00        | 7,000.0           | 3,424.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | J    |
| 0.00         0.00         7,200.0         3,624.9         0.0         708,322.73         487,011.35         0.00           0.00         0.00         7,272.0         3,696.9         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,300.0         3,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,400.0         3,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,500.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,700.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.0           0.00         0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.0           0.00         0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.0           0.00         0.00         8,000.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.0   | 7.                         | 100.0                                       | 0.00   | 0.00         | 7,100.0           | 3,524.9           | 0.0 | 0                                       | ,                               |  | 0.00                                   | Ü    |
| 0.00         7,272,0         3,596,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         7,300,0         7,324,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         7,400,0         3,524,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         7,400,0         3,524,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         7,400,0         4,124,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         0.00         7,400,0         4,224,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         0.00         7,300,0         4,224,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         0.00         8,000,0         4,524,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         0.00         8,100,0         4,524,9         0.0         0.0         798,322,73         487,011,35         0.00           0.00         0.00  | 7,                         | 200.0                                       | 0.00   | 00:00        | 7,200.0           | 3,624.9           | 0.0 | 0                                       | ·                               |  | 0.00                                   | Ü    |
| 0.00         7,300.0         3,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,400.0         3,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,500.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,500.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,700.0         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,900.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,000         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,000         4,424.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,000         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,000         4,524.9         0.0         0.0         798,322.73  | 7.                         | 272.0                                       | 0.00   | 0.00         | 7,272.0           | 3,696.9           | 0.0 | 0                                       | •                               |  | 0.00                                   | J    |
| 0.00         7,400         3824.9         0.0         798,322.73         487,011.35         0.00           0.00         7,500         4,224.9         0.0         798,322.73         487,011.35         0.00           0.00         7,500         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,700         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,700         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,800         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,900         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,100         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,200         4,524.9         0.0         798,322.73         487,011.35         0.0           0.00         8,400         4,524.9         0.0         0.0         798,322.73         487,011.35         0.0 <td< td=""><td>Brush 7</td><td>ly Canyon<br/>300.0</td><td>0.00</td><td>0.00</td><td>7,300.0</td><td>3,724.9</td><td>0.0</td><td>0</td><td></td><td></td><td>00.0</td><td>Ü</td></td<>  | Brush 7                    | ly Canyon<br>300.0                          | 0.00   | 0.00         | 7,300.0           | 3,724.9           | 0.0 | 0                                       |                                 |  | 00.0                                   | Ü    |
| 0.00         0.00         7,500.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,600.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,700.0         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,100.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,100.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,200.0         4,624.9         0.0         0.0         798,322.73         487,011.35         0.0           0.00         8,200.0         4,624.9         0.0         0.0         798,322.73         487,011.35         0.0           0.00  | 7                          | 400.0                                       | 0.00   | 0.00         | 7,400.0           | 3,824.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | Ü    |
| 0.00         0.00         7,600.0         4,024.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,700.0         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         7,700.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,500.0         4,924.9         0.0         0.0         798,322.73         487,011.35         0.00   | 7,                         | 500.0                                       | 0.00   | 0.00         | 7,500.0           | 3,924.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | Ü    |
| 0.00         0.00         4,124.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,100.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,200.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,300.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,512.0         4,924.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,512.0         4,924.9         0.0         0.0         <   | 7,                         | 0.009                                       | 0.00   | 00.00        | 7,600.0           | 4,024.9           | 0.0 | 0                                       | •                               |  | 0.00                                   | J    |
| 0.00         7,800.0         4,224.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         4,324.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,000.0         4,424.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,100.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,200.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,300.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,500.0         4,924.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00  | 7,                         | 700.0                                       | 0.00   | 00.00        | 7,700.0           | 4,124.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | J    |
| 0.00         7,900.0         4,324.9         0.0         798,322.73         487,011.35         0.00           0.00         8,000.0         4,424.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,100.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,200.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,300.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,500.0         4,924.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,500.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,500.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         9,00         0.0         798,322.73         487,011.  | 7,                         | 0.008                                       | 0.00   | 00:00        | 7,800.0           | 4,224.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | J    |
| 0.00         0.00         4,424.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,100.0         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,200.0         4,624.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,700.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,500.0         4,924.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00   | 7,                         | 0.006                                       | 00.00  | 0.00         | 7,900.0           | 4,324.9           | 0.0 | 0                                       |                                 |  | 00:00                                  | J    |
| 0.00         0.00         4524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         4,524.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00  | ထ်                         | 0.000                                       | 0.00   | 00.00        | 8,000.0           | 4,424.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | Ü    |
| 0.00         0.00         4,624.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,300.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00   | φ.                         | 100.0                                       | 00.00  | 0.00         | 8,100.0           | 4,524.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | •    |
| 0.00         0.00         8,300.0         4,724.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,400.0         4,824.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,575.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00  | æ                          | 200.0                                       | 0.00   | 0.00         | 8,200.0           | 4,624.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | J    |
| 0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,575.0         4,999.9         0.0         0.0         798,322.73         487,011.35         0.00   | ထ                          | 300.0                                       | 0.00   | 0.00         | 8,300.0           | 4,724.9           | 0.0 | 0                                       |                                 |  | 0.00                                   | 0    |
| 0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,575.0         4,999.9         0.0         0.0         798,322.73         487,011.35         0.00   | κΰ                         | 400.0                                       | 0.00   | 00.00        | 8,400.0           | 4,824.9           | 0.0 | 0                                       | ,-                              |  | 00'0                                   | Ū    |
| 0.00         8,512.0         4,936.9         0.0         0.0         798,322.73         487,011.35         0.00           0.00         0.00         8,575.0         4,999.9         0.0         0.0         798,322.73         487,011.35         0.00   | εö                         | ,500.0                                      | 00.0   | 0.00         | 8,500.0           | 4,924.9           | 0.0 | J                                       |                                 |  | 00.00                                  | _    |
| 0.00 0.00 8,575.0 4,999.9 0.0 0.0 798,322.73 487,011.35 0.00   | æ'                         | ,512.0                                      | 0.00   | 0.00         | 8,512.0           | 4,936.9           | 0.0 | U                                       |                                 |  | 0.00                                   |      |
|  | Bone<br>8,                 | <b>Spring</b><br>,575.0                     | 0.00   | 0.00         | 8,575.0           | 4,999.9           | 0.0 | J                                       |                                 |  | 0.00                                   |      |

Page 6

# Morcor Engineering

Morcor Standard Plan

| Wellbore:<br>Design: | Bell Lake<br>Bell Lake<br>Bell Lake | Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H | 3H<br>3H<br>3H<br>iH<br>orth 413H |             |         |               | TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | :<br>on Method:   | WELL @ 3575.1usft (Original WeLL @ 3575.1usft (Original Well @ 3675.1usft (Original Winimum Curvature EDM 5000.1 Single User Db | WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db |                     |
|----------------------|-------------------------------------|--|-----------------------------------|-------------|---------|---------------|--|-------------------|---|--|---------------------|
| Planned Survey MD    | vey                                 | <u>ا</u> و   | Azi (azimuth)                     | TVD (Iusft) | N SSQVT | N/S<br>(usft) | E/W<br>(usft)  | Easting<br>(usft) | Northing<br>(usft)  | V. Sec<br>(usft)   | DLeg<br>(*/100usft) |
| (nen)                | 8,600.0                             | 00:00  | 0.00                              | 8,600.0     | 5,024.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| ~                    | 8,700.0                             | 0.00   | 00.00                             | 8,700.0     | 5,124.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
|                      | 8,800.0                             | 0.00   | 0.00                              | 8,800.0     | 5,224.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| ~                    | 8,900.0                             | 0.00   | 0.00                              | 8,900.0     | 5,324.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
| -                    | 9,000.0                             | 0.00   | 0.00                              | 9,000.0     | 5,424.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
|                      | 9,100.0                             | 0.00   | 0.00                              | 9,100.0     | 5,524.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| -                    | 9,200.0                             | 0.00   | 0.00                              | 9,200.0     | 5,624.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| ÷′                   | 9,300.0                             | 00.00  | 0.00                              | 0'008'6     | 5,724.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
|                      | 9,400.0                             | 0.00   | 00:00                             | 9,400.0     | 5,824.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
|                      | 9,500.0                             | 0.00   | 00.0                              | 9,500.0     | 5,924.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 00'0   | 0.00                |
|                      | 9,515.0                             | 00.00  | 00:00                             | 9,515.0     | 5,939.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| 1st l                | 1st BS Sand                         |  |                                   |             |         | ć             | ć  | 1000 0001         | 207 044 25  | o o  | Ċ                   |
|                      | 9,600.0                             | 0.00   | 00.0                              | 9,600.0     | 6,024.9 | 0.0           | 0.0  | 196,322.13        | 467,011.33  | 9  | õ                   |
|                      | 9,700.0                             | 0.00   | 00'0                              | 9,700.0     | 6,124.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 00.00               |
|                      | 9,800.0                             | 0.00   | 00.00                             | 0.008,6     | 6,224.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
|                      | 9,900.0                             | 0.00   | 00:00                             | 0'006'6     | 6,324.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| _                    | 10,000.0                            | 0.00   | 0.00                              | 10,000.0    | 6,424.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| 7-                   | 10,048.0                            | 0.00   | 0.00                              | 10,048.0    | 6,472.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| 2nd                  | 2nd BS Sand                         |  |                                   |             |         |               |  |                   |   |  |                     |
| -                    | 10,100.0                            | 0.00   | 0.00                              | 10,100.0    | 6,524.9 | 0:0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
| _                    | 10,200.0                            | 0.00   | 00.00                             | 10,200.0    | 6,624.9 | 0:0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
| -                    | 10,300.0                            | 0.00   | 00:00                             | 10,300.0    | 6,724.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 00.00  | 0.00                |
| _                    | 10,400.0                            | 0.00   | 0.00                              | 10,400.0    | 6,824.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 00.00               |
| •                    | 10,482.0                            | 0.00   | 0.00                              | 10,482.0    | 6,906,9 | 0:0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| 3rd                  | 3rd BS Lime                         |  |                                   |             |         |               |  |                   |   |  |                     |
| -                    | 10,500.0                            | 0.00   | 0.00                              | 10,500.0    | 6,924.9 | 0.0           | 0.0  | 798,322.73        | 487,011.35  | 0.00   | 0.00                |
| •                    | 10,600,0                            | 000  | 00 0                              | 10.600.0    | 7.024.9 | 0.0           | 0.0  | 798.322.73        | 487.011.35  | 00 0   | 000                 |

Page 7

ò

# **Morcor Engineering**

Morcor Standard Plan

| Site: Be                | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>Bell Lake Unit North 413H | 413H<br>413H<br>413H   |          |                   |        | TVD Reference: MD Reference: North Reference: |             | WELL @ 3575.1us<br>WELL @ 3575.1us<br>Grid     | WELL @ 3575.1usft (Original Well Elev)<br>WELL @ 3575.1usft (Original Well Elev)<br>Grid | S S   |
|-------------------------|---|------------------------|----------|-------------------|--------|---|-------------|--|--|-------|
| ore:                    | Bell Lake Unit North 413H<br>191214 Bell Lake Unit North 413H                       | 413H<br>nit North 413H |          |                   |        | Survey Calculation Method:<br>Database:       | ion Method: | Minimum Curvature<br>EDM 5000.1 Single User Db | e<br>e User Db   |       |
| Planned Survey          |   |                        |          |                   |        |   |             | g  |  |       |
| ₽.                      | lic<br>i  | Azi (azimuth)          | QVT .    | TVDSS             | SIN    | EW  | Easting     | Northing                                       | V. Sec   | DLeg  |
| (usft)                  | 5   | ( <u>)</u>             | 10 700 0 | (usn.)<br>7 124 9 | 0:0    | 0.0   | 798.322.73  | 487.011.35                                     | 00:00  | 0.00  |
| 10.761.0                | 00.0  |                        | 10,761.0 | 7,185.9           | 0.0    | 0.0   | 798,322.73  | 487,011.35                                     | 0.00   | 00.0  |
| 7 5/8" Interm           | 7 5/8" Intermediate Casing  |                        |          |                   |        | •   |             | 220  | · ·  |       |
| 10,800.0                | 0.00  | 0.00                   | 10,800.0 | 7,224.9           | 0.0    | 0.0   | 798,322.73  | 487,011.35                                     | 0.00   | 0.00  |
| 10,860.0                | 0.00  | 00:00                  | 10,860.0 | 7,284.9           | 0.0    | 0.0   | 798,322.73  | 487,011.35                                     | 00.00  | 0.00  |
| Start Build 10.00       |   |                        | 9        | 0.000             |        |   | 708 323 75  | 487 010 40                                     | 1 02   | 10.00 |
| 10,900.0                | 4.00<br>9.23  | 133.10                 | 10,900.0 | 7.366.9           | 0.1-   | 5. 4<br>5. 6                                  | 798 327 04  | 487,007.32                                     | 4.32   | 10.00 |
| 10,942.3                |   |                        | 0.245.0  | 2.000             | 2      | 2   |             |  |  |       |
| 3rd BS Sand<br>11,000.0 | 14.00   | 133.10                 | 10,998.6 | 7,423.5           | -11.6  | 12.4  | 798,335.16  | 486,999.72                                     | 12.48  | 10.00 |
| 11,100.0                | 24.00   | 133.10                 | 11,093.0 | 7,517.9           | -33.8  | 36.2  | 798,358.90  | 486,977.51                                     | 36.31  | 10.00 |
| 11,200.0                | 34.00   | 133.10                 | 11,180.4 | 7,605.3           | 6.99-  | 71.5  | 798,394.26  | 486,944.42                                     | 71.81  | 10.00 |
| 11,267.5                | 40.75   | 133.10                 | 11,234.0 | 7,658.9           | -94.9  | 101.4   | 798,424.16  | 486,916.45                                     | 101.82   | 10.00 |
| Wolfcamp<br>11,300.0    | 44.00   | 133.10                 | 11,258.0 | 7,682.9           | -109.9 | 117.4   | 798,440.15  | 486,901.48                                     | 117.88   | 10.00 |
| 11,400.0                | 54.00   | 133.10                 | 11,323.5 | 7,748.4           | -161.4 | 172.5   | 798,495.20  | 486,849.98                                     | 173.13   | 10.00 |
| 11,500.0                | 64.00   | 133.10                 | 11,375.0 | 7,799.9           | -219.9 | 235.0   | 798,557.71  | 486,791.49                                     | 235.89   | 10.00 |
| 11,600.0                | 74.00   | 133.10                 | 11,410.8 | 7,835.7           | -283.6 | 303.1   | 798,625.79  | 486,727.79                                     | 304.24   | 10.00 |
| 11,700.0                | 84.00   | 133.10                 | 11,429.8 | 7,854.7           | -350.5 | 374.7   | 798,697.38  | 486,660.80                                     | 376.11   | 10.00 |
| 11,757.3                | 89.73   | 73 133.10              | 11,432.9 | 7,857.8           | -389.6 | 416.4   | 798,739.11  | 486,621.76                                     | 418.00   | 10.00 |
| Start DLS 1.            | Start DLS 1.54 TFO -87.06   |                        |          | 1                 | 000    |   | 27 027 00Z  | 900  | 410  | 40.00 |
| 11,758.1                | 89.81   |                        | 11,432.8 | 7 959 0           | 330.2  | 446.8   | 798 769 50  | 486 591 71                                     | 450 12   | 02.2  |
| 11,800.0                | 89.82   | 136.32                 | 11,433.1 | 7,858.0           | 4      | 440.0   | 180,168.30  | 7:166,094                                      | 430.12   | -     |
| 11,900.0                | 89.85   | 144.02                 | 11,433.4 | 7,858.3           | 496.4  | 510.8   | 798,833.50  | 486,514.97                                     | 531.18   | 7.70  |
| 12,000.0                | 89.88   | 151.72                 | 11,433.6 | 7,858.5           | -581.0 | 563.9   | 798,886.64  | 486,430.35                                     | 619.34   | 7.70  |
| 12,100.0                | 89.91   | 91 159.42              | 11,433.8 | 7,858.7           | -672.0 | 605.2   | 798,927.96  | 486,339.37                                     | 713.01   | 7.70  |
| 20 4 75 2               | 000   |                        | 11 A33 B | 7 050 7           | 7 909  | 0.44.0  | 708 936 74  | 186 311 G7                                     | 738 26   | 7.70  |

Page 8

# Morcor Engineering

Morcor Standard Plan

| math         (math)         (math) <th>  Color</th> <th>Company: Project: Site: Well: Wellbore: Design:</th> <th>Kaiser Francis Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H</th> <th>413H<br/>413H<br/>413H<br/>413H<br/>it North 413H</th> <th></th> <th></th> <th></th> <th>Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:</th> <th>Reference:<br/>n Method:</th> <th>Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original V WELL @ 3575.1usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db</th> <th>Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db</th> <th></th>   | Color  | Company: Project: Site: Well: Wellbore: Design: | Kaiser Francis Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H | 413H<br>413H<br>413H<br>413H<br>it North 413H |          |         |          | Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | Reference:<br>n Method: | Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original V WELL @ 3575.1usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db | Well Bell Lake Unit North 413H WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db |             |
|---|--|---|---|---|----------|---------|----------|---|-------------------------|---|---|-------------|
| 10.         10.         Act (aza) (aza)         TVDS         (ACT)  | 100         100         1  | Planned Survey                                  |   |   |          |         |          |   |                         |   |   |             |
| Cyanolo         (mily)   | Column   C | Q.  | luc   | Azi (azimuth)                                 | DVT      | TVDSS   | N/S      | E/W   | Easting                 | Northing  | V. Sec  | DLeg        |
| 88.94         167.12         11,433.9         7,685.8         -767.7         64.0         788.96.57         468.24.87           88.98         174.2         11,434.0         7,885.9         -986.4         64.97         788.95.2         466.07.87           90.00         180.40         11,434.0         7,885.9         -986.3         652.7         738,975.2         466.07.87           90.00         180.40         11,434.0         7,885.9         -1,066.3         651.8         738,975.2         466.07.87           90.00         180.40         11,434.0         7,885.9         -1,066.3         651.1         798,974.2         466.04.60           90.00         180.40         11,434.0         7,885.9         -1,266.3         651.1         798,974.3         465.46.08           90.00         180.40         11,434.0         7,885.9         -1,266.3         649.7         798,974.3         465.46.08           90.00         180.40         11,434.0         7,885.9         -1,266.3         649.7         798,974.5         465.46.09           90.00         180.40         11,434.0         7,885.9         -1,266.3         644.5         798,974.5         465.46.09           90.00         180.40         11,43  | 88.94         167.12         114339         7,563.8         7787.7         634.0         788,524.0         468,438.7         8           98.94         174,42         1,434.0         7,563.9         -966.4         694.7         789,572.40         468,475.87         8           90.00         180.40         11,434.0         7,563.9         -966.3         652.7         778,572.2         466,466.8         1,10           90.00         180.40         11,434.0         7,563.9         -1,166.3         651.8         778,574.5         466,466.8         1,10           90.00         180.40         11,434.0         7,563.9         -1,366.3         649.7         798,74.5         466,46.8         1,10           90.00         180.40         11,434.0         7,563.9         -1,366.3         649.7         798,74.5         466,46.8         1,10           90.00         180.40         11,434.0         7,568.9         -1,366.3         649.7         798,74.5         466,46.8         1,10           90.00         180.40         11,434.0         7,568.9         -1,566.3         648.9         798,97.4         466,46.8         1,10           90.00         180.40         11,434.0         7,568.9         -1,566.3 </th <th>(nst.)</th> <th>3</th> <th>0</th> <th>(nsft)</th> <th>(nstf)</th> <th></th> <th></th> <th>(nst)</th> <th>(usft)</th> <th>(nst)</th> <th>("/100usft)</th>  | (nst.)  | 3   | 0   | (nsft)   | (nstf)  |          |   | (nst)                   | (usft)  | (nst)   | ("/100usft) |
| 898 (1748)         17482         17482         -8864 (1748)         6497         798,972.40         486,144.89           90.00         180.40         11,434.0         7,883         -988.7         662.7         788,972.42         486,072.67           90.00         180.40         11,434.0         7,883         -1,086.3         651.8         788,974.53         486,046.08           90.00         180.40         11,434.0         7,883         -1,186.3         651.8         788,974.53         485,946.08           90.00         180.40         11,434.0         7,888         -1,186.3         651.8         788,973.44         485,946.08           90.00         180.40         11,434.0         7,888         -1,186.3         660.4         788,973.44         485,946.08           90.00         180.40         11,434.0         7,888         -1,186.3         660.4         788,973.44         485,946.08           90.00         180.40         11,434.0         7,888         -1,186.3         660.4         788,973.44         485,946.08           90.00         180.40         11,434.0         7,888         -1,186.3         662.5         788,973.44         485,946.08           90.00         180.40         11,434.0  | 68 98         11,434,0         7,686 9         -986.4         6497         798,974.0         498,144,98         98           90 00         180.40         11,434,0         7,685 9         -988 7         657.5         788,754.2         496,045 8         10           90 00         180.40         11,434,0         7,685 9         -1,166.3         651.8         798,975.4         486,046 8         10           90 00         180.40         11,434,0         7,585 9         -1,166.3         651.8         798,975.4         485,646.8         10           90 00         180.40         11,434,0         7,585 9         -1,166.3         651.8         798,972.45         485,646.8         10           90 00         180.40         11,434,0         7,585 9         -1,166.3         651.8         798,972.45         485,466.8         11           90 00         180.40         11,434,0         7,585 9         -1,266.3         649.0         798,972.45         485,466.8         11           90 00         180.40         11,434,0         7,585 9         -1,266.3         64.2         798,972.45         485,466.9         11           90 00         180.40         11,434,0         7,585 9         -1,266.3         64.2  | 12,2(   |   |   | 11,433.9 | 7,858.8 | -767.7   | 634.0   | 798,956.72              | 486,243.67  | 810.49  | 7.70        |
| 90.00         180.40         11,434.0         7,888.9         -988.7         652.5         788,975.42         486,072.67           90.00         180.40         11,434.0         7,888.9         -1,066.3         652.5         788,975.23         486,045.08           90.00         180.40         11,434.0         7,888.9         -1,106.3         651.1         788,973.44         486,045.08           90.00         180.40         11,434.0         7,888.9         -1,206.3         660.4         788,973.44         485,645.08           90.00         180.40         11,434.0         7,888.9         -1,206.3         660.4         788,973.44         485,645.08           90.00         180.40         11,434.0         7,888.9         -1,166.3         660.4         788,973.44         485,645.08           90.00         180.40         11,434.0         7,888.9         -1,166.3         660.4         788,973.74         485,645.08           90.00         180.40         11,434.0         7,888.9         -1,166.3         660.4         788,971.75         485,645.09           90.00         180.40         11,434.0         7,888.9         -1,166.3         788,971.76         485,445.09           90.00         180.40         11,   | 90.00         180 40         11,434.0         7,583.9         -986.3         652.7         788,75.2         486,0126.0           90.00         180.40         11,434.0         7,583.9         -1,066.3         652.1         788,95.2         140,640.8         1,106.3         651.6         788,95.2         140,640.8         1,106.3         651.6         788,45.08         1,106.3         1,106.3         651.6         788,45.08         1,106.3         1,10   | 12,3(   |   |   | 11,434.0 | 7,858.9 | -866.4   | 649.7   | 798,972.40              | 486,144.98  | 910.04  | 7.70        |
| 90.00         180.40         11,434.0         7,588.9         -986.3         652.5         798,77.53         486,045.08           90.00         180.40         11,434.0         7,588.9         -1,106.3         651.8         798,77.53         485,045.08           90.00         180.40         11,434.0         7,588.9         -1,106.3         651.1         798,77.45         485,445.08           90.00         180.40         11,434.0         7,588.9         -1,286.3         649.7         798,77.45         485,445.08           90.00         180.40         11,434.0         7,588.9         -1,286.3         649.7         798,77.45         485,445.09           90.00         180.40         11,434.0         7,588.9         -1,286.3         649.7         798,877.45         485,445.09           90.00         180.40         11,434.0         7,588.9         -1,586.3         648.2         788,774.56         485,445.09           90.00         180.40         11,434.0         7,588.9         -1,586.3         648.2         788,545.09           90.00         180.40         11,434.0         7,888.9         -1,586.3         788,898.9         485,445.10           90.00         180.40         11,434.0         7,888.9 <td>90.00         180,40         11,434.0         7,885.9         -966.3         652.5         798,97.35         486,046.06         10.1           90.00         180,40         11,434.0         7,885.9         -1,166.3         661.8         788,94.53         486,046.06         11.1           90.00         180,40         11,434.0         7,885.9         -1,166.3         661.8         786,947.34         486,945.08         1.1           90.00         180,40         114,44.0         7,885.9         -1,266.3         661.0         798,73.44         485,445.08         1.1           90.00         180,40         114,44.0         7,868.9         -1,466.3         660.4         798,73.44         485,445.08         1.1           90.00         180,40         114,44.0         7,868.9         -1,466.3         648.3         788,971.06         485,445.09         1.1           90.00         180,40         114,44.0         7,868.9         -1,366.3         648.3         788,971.06         485,445.0         1.1           90.00         180,40         114,44.0         7,588.9         -1,366.3         788,971.06         485,445.0         1.1           90.00         180,40         114,44.0         7,588.9         -1,366.3<!--</td--><td>12,37</td><td></td><td></td><td>11,434.0</td><td>7,858.9</td><td>-938.7</td><td>652.7</td><td>798,975.42</td><td>486,072.67</td><td>982.39</td><td>7.70</td></td>      | 90.00         180,40         11,434.0         7,885.9         -966.3         652.5         798,97.35         486,046.06         10.1           90.00         180,40         11,434.0         7,885.9         -1,166.3         661.8         788,94.53         486,046.06         11.1           90.00         180,40         11,434.0         7,885.9         -1,166.3         661.8         786,947.34         486,945.08         1.1           90.00         180,40         114,44.0         7,885.9         -1,266.3         661.0         798,73.44         485,445.08         1.1           90.00         180,40         114,44.0         7,868.9         -1,466.3         660.4         798,73.44         485,445.08         1.1           90.00         180,40         114,44.0         7,868.9         -1,466.3         648.3         788,971.06         485,445.09         1.1           90.00         180,40         114,44.0         7,868.9         -1,366.3         648.3         788,971.06         485,445.0         1.1           90.00         180,40         114,44.0         7,588.9         -1,366.3         788,971.06         485,445.0         1.1           90.00         180,40         114,44.0         7,588.9         -1,366.3 </td <td>12,37</td> <td></td> <td></td> <td>11,434.0</td> <td>7,858.9</td> <td>-938.7</td> <td>652.7</td> <td>798,975.42</td> <td>486,072.67</td> <td>982.39</td> <td>7.70</td>   | 12,37   |   |   | 11,434.0 | 7,858.9 | -938.7   | 652.7   | 798,975.42              | 486,072.67  | 982.39  | 7.70        |
| 90.00         180.40         11,434.0         7,588.9         -1,066.3         651.1         788,973.44         486,946.08           90.00         180.40         11,434.0         7,588.9         -1,166.3         651.1         788,973.44         486,946.08           90.00         180.40         11,434.0         7,888.9         -1,266.3         660.4         788,973.44         485,545.08           90.00         180.40         11,434.0         7,888.9         -1,266.3         649.7         788,973.44         485,545.09           90.00         180.40         11,434.0         7,888.9         -1,466.3         649.7         788,971.24         485,545.09           90.00         180.40         11,434.0         7,888.9         -1,666.3         647.5         788,971.06         485,445.09           90.00         180.40         11,434.0         7,888.9         -1,666.3         646.2         788,980.97         485,445.0           90.00         180.40         11,434.0         7,888.9         -1,666.3         646.2         788,980.97         485,445.1           90.00         180.40         11,434.0         7,888.9         -2,666.2         644.5         788,986.97         486,445.1           90.00         180.4   | 90.00         180.40         11,434.0         7,858.9         -1,066.3         651.1         798,74.53         485,945.00         1,11           90.00         180.40         11,434.0         7,858.9         -1,166.3         661.1         798,728.4         465,945.00         1,11           90.00         180.40         11,434.0         7,858.9         -1,166.3         660.4         798,972.14         465,450.0         1,15           90.00         180.40         11,434.0         7,858.9         -1,266.3         640.3         798,971.35         485,450.0         1,15           90.00         180.40         11,434.0         7,858.9         -1,566.3         640.3         798,971.35         485,450.0         1,15           90.00         180.40         11,434.0         7,858.9         -1,566.3         640.3         798,971.35         485,446.00         1,15           90.00         180.40         11,434.0         7,858.9         -1,666.3         640.5         798,971.35         485,446.00         1,15           90.00         180.40         11,434.0         7,858.9         -1,666.3         640.5         798,971.35         485,446.00         1,15           90.00         180.40         11,434.0         7,8   | 12,4(   |   |   | 11,434.0 | 7,858.9 | -966.3   | 652.5   | 798,975.23              | 486,045.08  | 1,009.90  | 0.00        |
| 90.00         180.40         11,43.40         7,58.89         -1,166.3         651.1         798,973.44         485,645.08           90.00         180.40         11,43.40         7,588.9         -1,286.3         650.4         788,973.14         485,45.08           90.00         180.40         11,43.40         7,888.9         -1,286.3         649.7         788,972.45         485,45.08           90.00         180.40         11,43.40         7,888.9         -1,486.3         649.7         788,971.75         485,45.09           90.00         180.40         114,43.40         7,888.9         -1,486.3         649.9         789,971.75         485,445.09           90.00         180.40         114,43.40         7,888.9         -1,786.3         646.9         789,898.97         485,445.09           90.00         180.40         114,43.40         7,888.9         -1,866.3         647.5         789,898.97         485,445.01           90.00         180.40         114,43.40         7,888.9         -1,866.3         644.9         789,898.97         485,445.11           90.00         180.40         11,434.0         7,888.9         -2,866.2         644.9         789,988.9         484,445.11           90.00         18   | 90.00         180.40         11,434.0         7,888.9         -1,166.3         650.4         788,973.44         465,45.08         1,126.3           90.00         180.40         11,434.0         7,868.9         -1,266.3         650.4         788,973.44         465,45.08         1,136.30           90.00         180.40         11,434.0         7,868.9         -1,266.3         649.7         788,971.55         465,545.08         1,146.30           90.00         180.40         11,434.0         7,868.9         -1,266.3         649.7         788,971.65         465,545.09         1,156.10           90.00         180.40         11,434.0         7,888.9         -1,866.3         640.5         789,971.66         485,456.90         1,151.10           90.00         180.40         11,434.0         7,888.9         -1,866.3         646.2         789,988.28         485,456.00         1,169.00           90.00         180.40         11,434.0         7,888.9         -1,866.3         646.2         789,988.28         465,456.00         1,18           90.00         180.40         11,434.0         7,888.9         -2,866.2         644.5         788,988.28         466,456.1         2,18           90.00         180.40         11,4  | 12,50   |   |   | 11,434.0 | 7,858.9 | -1,066.3 | 651.8   | 798,974.53              | 485,945.08  | 1,109.60  | 0.00        |
| 90.00         180.40         11,434.0         7,868.9         -1,266.3         660.4         788,774.5         485,745.08           90.00         180.40         11,434.0         7,868.9         -1,366.3         649.7         788,774.5         485,745.08           90.00         180.40         11,434.0         7,868.9         -1,366.3         649.0         788,717.5         485,645.09           90.00         180.40         11,434.0         7,868.9         -1,566.3         649.0         788,717.5         485,445.09           90.00         180.40         11,434.0         7,868.9         -1,666.3         788,896.87         485,445.09           90.00         180.40         11,434.0         7,868.9         -1,866.3         788,896.89         485,445.0           90.00         180.40         11,434.0         7,868.9         -2,966.2         788,868.89         486,445.1           90.00         180.40         11,434.0         7,868.9         2,166.2         788,868.89         486,445.1           90.00         180.40         11,434.0         7,868.9         2,266.2         788,868.89         484,445.1           90.00         180.40         11,434.0         7,868.9         2,266.2         788,868.89 <td< td=""><td>90.00         180.40         11,434.0         7,888.9         -1,266.3         660.4         798,972.45         485,45.08         1,34           90.00         180.40         11,434.0         7,888.9         -1,266.3         649.7         798,977.35         485,545.09         1,41           90.00         180.40         11,434.0         7,888.9         -1,566.3         649.0         798,977.35         485,545.09         1,15           90.00         180.40         11,434.0         7,888.9         -1,566.3         648.0         798,977.35         485,445.09         1,18           90.00         180.40         11,434.0         7,888.9         -1,786.3         646.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -1,786.3         646.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.8         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.7         484,465.1</td><td>12,60</td><td></td><td></td><td>11,434.0</td><td>7,858.9</td><td>-1,166.3</td><td>651.1</td><td>798,973.84</td><td>485,845.08</td><td>1,209.30</td><td>0.00</td></td<>   | 90.00         180.40         11,434.0         7,888.9         -1,266.3         660.4         798,972.45         485,45.08         1,34           90.00         180.40         11,434.0         7,888.9         -1,266.3         649.7         798,977.35         485,545.09         1,41           90.00         180.40         11,434.0         7,888.9         -1,566.3         649.0         798,977.35         485,545.09         1,15           90.00         180.40         11,434.0         7,888.9         -1,566.3         648.0         798,977.35         485,445.09         1,18           90.00         180.40         11,434.0         7,888.9         -1,786.3         646.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -1,786.3         646.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.5         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.8         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,986.7         484,465.1  | 12,60   |   |   | 11,434.0 | 7,858.9 | -1,166.3 | 651.1   | 798,973.84              | 485,845.08  | 1,209.30  | 0.00        |
| 90.00         180.40         11,434.0         7,868.9         -1,366.3         649.7         789,77.45         485,645.09           90.00         180.40         11,434.0         7,868.9         -1,466.3         649.0         789,71.75         485,545.09           90.00         180.40         11,434.0         7,868.9         -1,566.3         648.3         789,71.06         485,545.09           90.00         180.40         11,434.0         7,868.9         -1,766.3         648.3         789,971.06         485,545.09           90.00         180.40         11,434.0         7,868.9         -1,766.3         648.9         789,986.75         485,546.09           90.00         180.40         11,434.0         7,868.9         -1,766.2         789,986.89         485,465.10           90.00         180.40         11,434.0         7,868.9         -2,266.2         644.5         789,966.80         486,465.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         644.5         789,966.80         484,455.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         641.4         789,966.80         484,455.11           90.00         180.40         11,4   | 90.00         180.40         11,434.0         7,888.9         -1,366.3         649.7         798,972.45         485,545.09         1,44           90.00         180.40         11,434.0         7,888.9         -1,466.3         649.0         798,977.55         485,545.09         1,51           90.00         180.40         11,434.0         7,888.9         -1,666.3         648.5         798,971.06         485,445.09         1,51           90.00         180.40         11,434.0         7,888.9         -1,766.3         646.5         798,971.06         485,445.09         1,17           90.00         180.40         11,434.0         7,888.9         -1,766.3         646.5         798,906.67         485,445.00         1,18           90.00         180.40         11,434.0         7,888.9         -1,766.2         646.5         798,906.7         1,18         1,14           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.5         798,906.8         484,465.1         2,0           90.00         180.40         11,434.0         7,888.9         -2,266.2         643.5         798,906.8         484,465.1         2,0           90.00         180.40         11,434.0         7,868.9 <td>12,70</td> <td></td> <td></td> <td>11,434.0</td> <td>7,858.9</td> <td>-1,266.3</td> <td>650.4</td> <td>798,973.14</td> <td>485,745.08</td> <td>1,309.00</td> <td>0.00</td>  | 12,70   |   |   | 11,434.0 | 7,858.9 | -1,266.3 | 650.4   | 798,973.14              | 485,745.08  | 1,309.00  | 0.00        |
| 90.00         180.40         11,434.0         7,88.8         -1,466.3         649.0         798,971.75         485,545.09           90.00         180.40         11,434.0         7,858.9         -1,566.3         648.3         778,971.05         485,445.09           90.00         180.40         11,434.0         7,858.9         -1,566.3         646.9         778,970.36         485,445.09           90.00         180.40         11,434.0         7,858.9         -1,766.3         646.9         798,906.97         485,456.09           90.00         180.40         11,434.0         7,858.9         -1,866.3         798,906.87         485,456.10           90.00         180.40         11,434.0         7,858.9         -1,866.3         798,906.89         484,456.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,906.99         484,456.11           90.00         180.40         11,434.0         7,868.9         2,266.2         642.5         798,906.99         484,445.11           90.00         180.40         11,434.0         7,868.9         2,266.2         642.1         798,906.90         484,445.11           90.00         180.40         11,434.0         7   | 90.00         180.40         11,434.0         7,888.9         -1,486.3         649.0         789,971.75         485,545.09         1,51           90.00         180.40         11,434.0         7,888.9         -1,566.3         648.3         788,971.06         485,456.09         1,16           90.00         180.40         11,434.0         7,888.9         -1,566.3         647.6         788,907.05         485,456.09         1,16           90.00         180.40         11,434.0         7,888.9         -1,766.3         646.9         788,966.7         485,465.0         1,18           90.00         180.40         11,434.0         7,888.9         -1,766.3         646.9         788,966.7         485,465.1         1,18           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.9         788,966.89         484,445.1         2,3           90.00         180.40         11,434.0         7,888.9         -2,266.2         644.9         788,966.89         484,445.1         2,3           90.00         180.40         11,434.0         7,888.9         -2,266.2         642.5         788,966.89         484,445.1         2,3           90.00         180.40         11,434.0         7,888.9<   | 12,8(   |   |   | 11,434.0 | 7,858.9 | -1,366.3 | 649.7   | 798,972.45              | 485,645.09  | 1,408.70  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -1,566.3         648.3         798,971.06         485,445.09           90.00         180.40         11,434.0         7,858.9         -1,666.3         646.5         798,970.36         485,345.09           90.00         180.40         11,434.0         7,858.9         -1,786.3         646.2         798,969.67         485,245.10           90.00         180.40         11,434.0         7,858.9         -1,866.2         646.5         798,968.97         485,445.09           90.00         180.40         11,434.0         7,858.9         -2,266.2         645.5         798,968.97         485,445.10           90.00         180.40         11,434.0         7,868.9         -2,266.2         645.5         798,968.99         484,455.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,968.99         484,455.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,968.99         484,455.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,968.91         484,455.11           90.00         18   | 90.00         180.40         11,434.0         7,888.9         -1,566.3         648.3         798,971.06         485,445.09         1,16           90.00         180.40         11,434.0         7,888.9         -1,666.3         646.9         798,965.0         485,445.0         1,1           90.00         180.40         11,434.0         7,888.9         -1,766.3         646.9         798,965.8         485,245.10         1,1           90.00         180.40         11,434.0         7,888.9         -1,866.3         646.5         798,965.8         485,445.10         1,1           90.00         180.40         11,434.0         7,888.9         -2,166.2         642.5         798,965.8         485,045.10         2,0           90.00         180.40         11,434.0         7,888.9         -2,166.2         642.8         798,965.8         484,445.11         2,0           90.00         180.40         11,434.0         7,888.9         -2,266.2         642.8         798,965.8         484,445.11         2,0           90.00         180.40         11,434.0         7,888.9         -2,266.2         642.8         798,965.8         484,445.11         2,0           90.00         180.40         11,434.0         7,888.9   | 12,9(   |   |   | 11,434.0 | 7,858.9 | -1,466.3 | 649.0   | 798,971.75              | 485,545.09  | 1,508.40  | 0.00        |
| 90.00         180.40         11,434.0         7,886.9         -1,666.3         647.6         798,970.36         485,345.09           90.00         180.40         11,434.0         7,886.9         -1,766.3         646.2         788,986.77         485,45.10           90.00         180.40         11,434.0         7,886.9         -1,866.2         645.5         798,986.87         485,45.10           90.00         180.40         11,434.0         7,886.9         -2,066.2         645.5         798,966.89         485,45.10           90.00         180.40         11,434.0         7,886.9         -2,166.2         644.9         798,966.89         486,45.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         798,966.90         484,45.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         798,966.90         484,45.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         798,966.90         484,45.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         798,966.10         484,45.11           90.00         180.40 <td>90.00         180.40         11,434.0         7,868.9         -1,666.3         647.6         798,970.36         485,345.09         1,17           90.00         180.40         11,434.0         7,868.9         -1,766.3         646.9         789,968.07         485,445.0         1,18           90.00         180.40         11,434.0         7,858.9         -1,866.2         646.5         789,968.26         485,445.10         1,19           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.9         789,968.26         486,445.10         2,19           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.9         788,966.89         484,845.11         2,2           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         788,966.89         484,845.11         2,3           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         788,966.89         484,845.11         2,3           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         788,966.50         484,445.11         2,3           90.00         180.40         11,434.0         7,8</td> <td>13,0</td> <td></td> <td></td> <td>11,434.0</td> <td>7,858.9</td> <td>-1,566.3</td> <td>648.3</td> <td>798,971.06</td> <td>485,445.09</td> <td>1,608.10</td> <td>0.00</td> | 90.00         180.40         11,434.0         7,868.9         -1,666.3         647.6         798,970.36         485,345.09         1,17           90.00         180.40         11,434.0         7,868.9         -1,766.3         646.9         789,968.07         485,445.0         1,18           90.00         180.40         11,434.0         7,858.9         -1,866.2         646.5         789,968.26         485,445.10         1,19           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.9         789,968.26         486,445.10         2,19           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.9         788,966.89         484,845.11         2,2           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         788,966.89         484,845.11         2,3           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         788,966.89         484,845.11         2,3           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         788,966.50         484,445.11         2,3           90.00         180.40         11,434.0         7,8   | 13,0  |   |   | 11,434.0 | 7,858.9 | -1,566.3 | 648.3   | 798,971.06              | 485,445.09  | 1,608.10  | 0.00        |
| 90.00         180.40         11,434.0         7,886.9         -1,786.3         646.9         789,696.87         485,245.10           90.00         180.40         11,434.0         7,886.9         -1,886.3         646.2         789,696.37         485,145.10           90.00         180.40         11,434.0         7,886.9         -2,066.2         644.9         789,686.28         485,045.10           90.00         180.40         11,434.0         7,886.9         -2,266.2         644.9         789,686.99         484,945.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         643.5         789,686.99         484,945.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         643.5         789,686.90         484,445.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         789,686.11         484,445.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         642.8         789,966.50         484,445.11           90.00         180.40         11,434.0         7,886.9         -2,266.2         640.1         789,964.11         484,445.11           90.00         18   | 90.00         180.40         11,434.0         7,888.9         -1,786.3         646.9         798,969.67         485,245.10         1,98           90.00         180.40         11,434.0         7,888.9         -1,886.3         646.2         798,968.97         485,145.10         1,91           90.00         180.40         11,434.0         7,888.9         -2,086.2         645.5         798,968.28         486,045.10         2,0           90.00         180.40         11,434.0         7,888.9         -2,086.2         644.5         798,968.58         486,045.10         2,0           90.00         180.40         11,434.0         7,888.9         -2,266.2         643.5         798,966.56         484,945.11         2,3           90.00         180.40         11,434.0         7,888.9         -2,266.2         642.8         798,966.50         484,445.11         2,3           90.00         180.40         11,434.0         7,888.9         -2,266.2         64.2         798,966.50         484,445.11         2,3           90.00         180.40         11,434.0         7,888.9         -2,766.2         64.1         798,964.80         444,445.11         2,3           90.00         180.40         11,434.0         7,888.   | 13,1(   |   |   | 11,434.0 | 7,858.9 | -1,666.3 | 647.6   | 798,970.36              | 485,345.09  | 1,707.80  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -1,866.2         646.2         798,968.97         485,145.10           90.00         180.40         11,434.0         7,858.9         -1,966.2         645.5         798,968.28         485,045.10           90.00         180.40         11,434.0         7,858.9         -2,066.2         644.9         798,966.89         484,945.11           90.00         180.40         11,434.0         7,868.9         -2,766.2         643.5         798,966.89         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,966.89         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,966.10         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,766.2         642.8         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,962.72         484,245.12           90.00         18   | 90.00         180.40         11,434.0         7,858.9         -1,866.2         646.2         798,968.97         485,145.10         1,91           90.00         180.40         11,434.0         7,858.9         -1,966.2         645.5         798,968.28         485,045.10         2.0           90.00         180.40         11,434.0         7,858.9         -2,066.2         644.9         798,968.9         484,945.11         2.0           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.89         484,945.11         2.0           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.89         484,945.11         2.0           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.8         798,966.19         484,455.11         2.0           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,964.11         484,455.11         2.0           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.02         484,445.11         2.0           90.00         180.40         11,434.0         7,858.   | 13,2  |   |   | 11,434.0 | 7,858.9 | -1,766.3 | 646.9   | 798,969.67              | 485,245.10  | 1,807.50  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -1,966.2         645.5         798,968.28         486,045.10           90.00         180.40         11,434.0         7,868.9         -2,066.2         644.9         798,965.8         484,957.10           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.2         798,966.89         484,945.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,966.19         484,745.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,966.19         484,745.11           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,966.19         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,566.2         640.7         798,965.0         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,766.2         640.7         798,965.0         484,445.11           90.00         180.40         11,434.0         7,868.9         -2,766.2         640.7         798,965.0         484,445.12           90.00         180.40   | 90.00         180.40         11,434.0         7,888.9         -1,966.2         645.5         798,968.28         485,045.10         2,0           90.00         180.40         11,434.0         7,888.9         -2,066.2         644.9         78,968.28         484,945.10         2,1           90.00         180.40         11,434.0         7,868.9         -2,166.2         643.5         788,966.89         484,455.11         2,2           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,966.89         484,455.11         2,3           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,965.60         484,455.11         2,3           90.00         180.40         11,434.0         7,858.9         -2,266.2         640.7         798,964.80         484,455.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.80         484,455.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,962.34         484,345.12         2,7           90.00         180.40         11,434.0         7,858.9   | 13,3  |   |   | 11,434.0 | 7,858.9 | -1,866.3 | 646.2   | 798,968.97              | 485,145.10  | 1,907.19  | 0.00        |
| 90.00         11,434.0         7,858.9         -2,066.2         644.9         798,967.58         484,945.10           90.00         180.40         11,434.0         7,868.9         -2,166.2         644.2         798,966.89         484,945.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.19         484,745.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.8         798,966.19         484,745.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.7         798,966.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,963.41         484,445.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,963.21         484,445.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,960.52         484,456.12           90.00         180.40         11   | 90.00         180.40         11,434.0         7,858.9         -2,066.2         644.9         798,967.58         484,945.10         2,11           90.00         180.40         11,434.0         7,858.9         -2,166.2         643.5         798,966.89         484,945.11         2,2           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.89         484,445.11         2,3           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.8         798,966.19         484,455.11         2,3           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.8         798,966.19         484,456.11         2,3           90.00         180.40         11,434.0         7,858.9         -2,766.2         642.1         798,964.80         484,456.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,964.80         484,465.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,962.02         484,465.12         2,9           90.00         180.40         11,434.0         7,858   | 13,4  |   |   | 11,434.0 | 7,858.9 | -1,966.2 | 645.5   | 798,968.28              | 485,045.10  | 2,006.89  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -2,166.2         644.2         798,966.89         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.19         484,745.11           90.00         180.40         11,434.0         7,858.9         -2,266.2         642.1         798,965.0         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,566.2         641.4         798,965.0         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,960.63         483,945.13           90.00         180.   | 90.00         180.40         11,434.0         7,868.9         -2,166.2         644.2         798,966.89         484,945.11         2,23           90.00         180.40         11,434.0         7,868.9         -2,266.2         643.5         798,966.90         484,745.11         2,34           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,965.00         484,745.11         2,44           90.00         180.40         11,434.0         7,868.9         -2,366.2         642.8         798,965.01         484,745.11         2,44           90.00         180.40         11,434.0         7,888.9         -2,566.2         640.7         798,964.11         484,445.11         2,5           90.00         180.40         11,434.0         7,888.9         -2,566.2         640.0         798,964.11         484,245.12         2,7           90.00         180.40         11,434.0         7,888.9         -2,766.2         640.0         798,963.12         484,245.12         2,9           90.00         180.40         11,434.0         7,888.9         -2,966.2         630.3         798,960.3         483,945.13         3,1           90.00         180.40         11,434.0         7,8   | 13,5  |   |   | 11,434.0 | 7,858.9 | -2,066.2 | 644.9   | 798,967.58              | 484,945.10  | 2,106.59  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -2,266.2         643.5         798,966.19         484,745.11           90.00         180.40         11,434.0         7,858.9         -2,366.2         642.8         798,965.50         484,645.11           90.00         180.40         11,434.0         7,858.9         -2,366.2         642.1         798,964.01         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,366.2         639.3         798,960.03         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         639.6         798,960.93         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,066.2         639.7         798,960.93         483,945.13           90.00         18   | 90.00         180.40         11,434.0         7,588.9         -2,266.2         643.5         798,966.50         484,745.11         2,446.1           90.00         180.40         11,434.0         7,868.9         -2,266.2         642.8         798,965.50         484,645.11         2,446.5           90.00         180.40         11,434.0         7,858.9         -2,466.2         642.1         798,964.80         484,645.11         2,556.2           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.11         484,445.11         2,56           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,963.71         484,445.12         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.02         484,145.12         2,9           90.00         180.40         11,434.0         7,858.9         -2,366.2         638.6         798,961.32         484,045.12         2,9           90.00         180.40         11,434.0         7,858.9         -3,066.2         638.6         798,961.32         483,945.13         3,1           90.00         180.40         11,434.0   | 13,6  |   |   | 11,434.0 | 7,858.9 | -2,166.2 | 644.2   | 798,966.89              | 484,845.11  | 2,206.29  | 0.00        |
| 90.00         180.40         11,434.0         7,868.9         -2,366.2         642.8         798,965.60         484,645.11           90.00         180.40         11,434.0         7,858.9         -2,466.2         642.1         798,964.0         484,545.11           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.02         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         639.3         798,960.03         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         639.3         798,960.03         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.93         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.93         483,945.13           90.00         180   | 90.00         180.40         11,434.0         7,858.9         -2,366.2         642.8         798,965.50         484,645.11         2,4           90.00         180.40         11,434.0         7,858.9         -2,466.2         642.1         798,965.11         484,545.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,566.2         640.7         798,964.11         484,445.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.7         798,963.41         484,445.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,963.41         484,345.12         2,7           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,963.72         484,145.12         2,9           90.00         180.40         11,434.0         7,858.9         -3,066.2         639.3         798,960.32         484,045.12         3,0           10.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         484,045.13         3,1           10.00         180.40         11,434.0         7,858.   | 13,7  |   |   | 11,434.0 | 7,858.9 | -2,266.2 | 643.5   | 798,966.19              | 484,745.11  | 2,305.99  | 0.00        |
| 90.00         180.40         11,434.0         7,888.9         -2,466.2         642.1         798,964.80         484,545.11           90.00         180.40         11,434.0         7,858.9         -2,566.2         641.4         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,960.63         484,045.13           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.93         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.9         798,969.93         483,845.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         636.5         798,959.93         483,845.13  | 90.00         180.40         11,434.0         7,858.9         -2,466.2         642.1         798,964.80         484,545.11         2,5           90.00         180.40         11,434.0         7,858.9         -2,566.2         641.4         798,964.11         484,445.11         2,6           90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,962.72         484,345.12         2,7           90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12         2,9           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,960.63         484,045.12         2,9           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13         3,0           10.00         180.40         11,434.0         7,858.9         -3,166.2         637.9         798,959.93         483,945.13         3,1           10.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,945.13         3,2           10.00         180.40         11,434.0         7,858.   | 13,8  |   |   | 11,434.0 | 7,858.9 | -2,366.2 | 642.8   | 798,965.50              | 484,645.11  | 2,405.69  | 0.00        |
| 90.00         180.40         11,434.0         7,868.9         -2,566.2         641.4         798,964.11         484,445.11           90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,963.41         484,345.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,786.2         638.6         798,961.32         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,969.93         483,845.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,845.13  | 90.00         180.40         11,434.0         7,858.9         -2,566.2         641.4         798,964.11         484,445.11         2,6           90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,962.72         484,245.12         2,7           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.02         484,145.12         2,8           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,962.02         484,145.12         2,9           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,960.63         483,945.13         3,0           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.9         798,950.63         483,945.13         3,1           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.24         483,945.13         3,2           90.00         180.40         11,434.0         7,858.9         -3,166.2         636.5         798,959.24         483,745.13         3,3  | 13,9  |   |   | 11,434.0 | 7,858.9 | -2,466.2 | 642.1   | 798,964.80              | 484,545.11  | 2,505.39  | 00.0        |
| 90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,963.41         484,345.12           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,845.13   | 90.00         180.40         11,434.0         7,858.9         -2,666.2         640.7         798,963.41         484,345.12         2,77           90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.72         484,245.12         2,78           90.00         180.40         11,434.0         7,858.9         -2,766.2         639.3         798,962.02         484,145.12         2,98           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12         3,0           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13         3,1           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.33         483,945.13         3,2           100.00         180.40         11,434.0         7,858.9         -3,266.2         636.5         798,959.24         483,745.13         3,3   | 14,0  |   |   | 11,434.0 | 7,858.9 | -2,566.2 | 641.4   | 798,964.11              | 484,445.11  | 2,605.09  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798.962.72         484,245.12           90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,845.13           180.40         11,434.0         7,858.9         -3,266.2         636.5         798,959.93         483,845.13   | 90.00         180.40         11,434.0         7,858.9         -2,766.2         640.0         798,962.72         484,245.12         2,88           90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12         2,9           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12         3,0           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.9         798,960.63         483,945.13         3,1           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,845.13         3,2           90.00         180.40         11,434.0         7,858.9         -3,266.2         636.5         798,959.24         483,745.13         3,3   | 14,1  |   |   | 11,434.0 | 7,858.9 | -2,666.2 | 640.7   | 798,963.41              | 484,345,12  | 2,704.79  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.2         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         636.5         798,959.93         483,845.13   | 90.00         180.40         11,434.0         7,858.9         -2,866.2         639.3         798,962.02         484,145.12         2,96           90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12         3,0           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13         3,1           1         90.00         180.40         11,434.0         7,858.9         -3,166.2         636.5         798,959.33         483,845.13         3,2           Page 9         1         11,434.0         7,858.9         -3,266.2         636.5         798,959.24         483,745.13         3,3  | 14,2  |   |   | 11,434.0 | 7,858.9 | -2,766.2 | 640.0   | 798,962.72              | 484,245.12  | 2,804.49  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         636.5         798,959.24         483,745.13  | 90.00         180.40         11,434.0         7,858.9         -2,966.2         638.6         798,961.32         484,045.12         3,0           90.00         180.40         11,434.0         7,858.9         -3,066.2         637.2         798,960.63         483,945.13         3,1           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.33         483,845.13         3,2           Page 9         11,434.0         7,858.9         -3,266.2         636.5         798,959.24         483,745.13         3,3  | 14,3  |   |   | 11,434.0 | 7,858.9 | -2,866.2 | 639.3   | 798,962.02              | 484,145.12  | 2,904.19  | 0.00        |
| 90.00         180.40         11,434.0         7,858.9         -3,066.2         637.9         798,960.63         483,945.13           90.00         180.40         11,434.0         7,858.9         -3,166.2         637.2         798,959.93         483,845.13           90.00         180.40         11,434.0         7,858.9         -3,266.2         636.5         798,959.24         483,745.13  | 90.00 180.40 11,434.0 7,858.9 -3,066.2 637.9 798,960.63 483,945.13 3,11   90.00 180.40 11,434.0 7,858.9 -3,166.2 636.5 798,959.24 483,745.13 3,2   Page 9  | 14,4  |   |   | 11,434.0 | 7,858.9 | -2,966.2 | 638.6   | 798,961.32              | 484,045.12  | 3,003.89  | 0.00        |
| 90.00 180.40 11,434.0 7,858.9 -3,166.2 637.2 798,959.93 483,845.13<br>90.00 180.40 11,434.0 7,858.9 -3,266.2 636.5 798,959.24 483,745.13  | 90.00 180.40 11,434.0 7,858.9 -3,166.2 637.2 798,959.93 483,845.13 3,2 3,0 0.00 180.40 11,434.0 7,858.9 -3,266.2 636.5 798,959.24 483,745.13 3,3 Page 9  | 14,5  |   |   | 11,434.0 | 7,858.9 | -3,066.2 | 637.9   | 798,960.63              | 483,945.13  | 3,103.59  | 0.00        |
| 90.00 180.40 11,434.0 7,858.9 -3,266.2 636.5 798,959.24 483,745.13  | 90.00 180.40 11,434.0 7,858.9 -3,266.2 636.5 798,959.24 483,745.13 3,3   | 14,6  |   |   | 11,434.0 | 7,858.9 | -3,166.2 | 637.2   | 798,959.93              | 483,845.13  | 3,203.29  | 0.00        |
|   | Page 9   | 14,7  |   |   | 11,434.0 | 7,858.9 | -3,266.2 | 636.5   | 798,959.24              | 483,745.13  | 3,302.99  | 00'0        |

Page 10

2/3/2020 3:54:42PM

# Morcor Engineering

Morcor Standard Plan

| Site:<br>Well:<br>Wellbore:<br>Design: | Bell Lake Unit North 413H Bell Lake Unit North 413H Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H | Bell Lake Unit North 413H Bell Lake Unit North 413H Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H |          |         |          | TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: | n Method:  | WELL @ 3575.1usft (Origina<br>WELL @ 3575.1usft (Origina<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db | WELL @ 3575.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db |             |
|--|--|--|----------|---------|----------|--|------------|--|--|-------------|
| Planned Survey                         | <u>n</u> c   | Azi (azimuth)  | δħ       | TVDSS   | NS       | EW   | Easting    | Northing   | V. Sec   | DLeg        |
| (nst)                                  | 0  | 0  | (nstt)   | (usft)  | (usft)   | (nsft)   | (usft)     | (usft)   | (usft)   | (*/100usft) |
| 14,800.0                               | 0.00   |  | 11,434.0 | 7,858.9 | -3,366.2 | 635.8  | 798,956.54 | 403,040.13   | 3,402.69   | 00.0        |
| 14,900.0                               |  |  | 11,434.0 | 7,858.9 | -3,466.2 | 635.1  | 798,957.85 | 483,545.14   | 3,502.38   | 00.00       |
| 15,000.0<br>15,100.0                   | 0.00   | 180.40   | 11,434.0 | 7,858.9 | -3,566.2 | 633.7  | 798,956.46 | 483,345.14   | 3,701.78   | 0.00        |
| 15,200.0                               | 00'06 0'0  | 180.40   | 11,434.0 | 7,858.9 | -3,766.2 | 633.0  | 798,955.76 | 483,245.14   | 3,801.48   | 00.00       |
| 15,300.0                               |  |  | 11,434.0 | 7,858.9 | -3,866.2 | 632.3  | 798,955.07 | 483,145.15   | 3,901.18   | 0.00        |
| 15,400.0                               | 0.0 90.00  | 180.40   | 11,434.0 | 7,858.9 | -3,966.2 | 631.6  | 798,954.37 | 483,045.15   | 4,000.88   | 00.00       |
| 15,500.0                               | 0.0 90.00  | 180.40   | 11,434.0 | 7,858.9 | 4,066.2  | 630.9  | 798,953.68 | 482,945.15   | 4,100.58   | 0.00        |
| 15,600.0                               | 0.00   | 180.40   | 11,434.0 | 7,858.9 | -4,166.2 | 630.3  | 798,952.98 | 482,845.15   | 4,200.28   | 0.00        |
| 15,700.0                               | 0.0  | 180.40   | 11,434.0 | 7,858.9 | -4,266.2 | 629.6  | 798,952.29 | 482,745.16   | 4,299.98   | 0.00        |
| 15,800.0                               | 0.00 90.00   | 00 180.40  | 11,434.0 | 7,858.9 | -4,366.2 | 628.9  | 798,951.59 | 482,645.16   | 4,399.68   | 0.00        |
| 15,900.0                               | 0.00 90.00   | 180.40   | 11,434.0 | 7,858.9 | -4,466.2 | 628.2  | 798,950.90 | 482,545.16   | 4,499.38   | 00.00       |
| 16,000.0                               | 00.06 00.00  | 180.40   | 11,434.0 | 7,858.9 | 4,566.2  | 627.5  | 798,950.20 | 482,445.16   | 4,599.08   | 00.00       |
| 16,100.0                               | 00.00 90.00  | 180.40   | 11,434.0 | 7,858.9 | 4,666.2  | 626.8  | 798,949.51 | 482,345.17   | 4,698.78   | 0.00        |
| 16,200.0                               | 00.06 90.00  | 00 180.40  | 11,434.0 | 7,858.9 | -4,766.2 | 626.1  | 798,948.81 | 482,245.17   | 4,798.48   | 0.00        |
| 16,300.0                               | 00.06 0.00   | 180.40   | 11,434.0 | 7,858.9 | -4,866.2 | 625.4  | 798,948.12 | 482,145.17   | 4,898.18   | 0.00        |
| 16,400.0                               | 00.06 00.00  | 180.40   | 11,434.0 | 7,858.9 | 4,966.2  | 624.7  | 798,947.42 | 482,045.17   | 4,997.87   | 0.00        |
| 16,500.0                               | 00.06 00.00  | 180.40   | 11,434.0 | 7,858.9 | -5,066.2 | 624.0  | 798,946.73 | 481,945.18   | 5,097.57   | 0.00        |
| 16,600.0                               | 00.06 00.00  | 00 180.40  | 11,434.0 | 7,858.9 | -5,166.2 | 623.3  | 798,946.03 | 481,845.18   | 5,197.27   | 0.00        |
| 16,700.0                               | 00.06 90.00  | 180.40   | 11,434.0 | 7,858.9 | -5,266.2 | 622.6  | 798,945.34 | 481,745.18   | 5,296.97   | 0.00        |
| 16,800.0                               | 00.06 0.00   | 180.40   | 11,434.0 | 7,858.9 | -5,366.2 | 621.9  | 798,944.64 | 481,645.18   | 5,396.67   | 0.00        |
| 16,900.0                               | 00.06 00.00  | 00 180.40  | 11,434.0 | 7,858.9 | -5,466.2 | 621.2  | 798,943.95 | 481,545.19   | 5,496.37   | 0.00        |
| 17,000.0                               | 00.00  | 00 180.40  | 11,434.0 | 7,858.9 | -5,566.2 | 620.5  | 798,943.25 | 481,445.19   | 5,596.07   | 0.00        |
| 17,100.0                               | 00.00  | 00 180.40  | 11,434.0 | 7,858.9 | -5,666,2 | 619.8  | 798,942.56 | 481,345.19   | 5,695.77   | 0.00        |
| 17,200.0                               | 00.06 0.00   | 00 180.40  | 11,434.0 | 7,858.9 | -5,766.2 | 619.1  | 798,941.86 | 481,245.19   | 5,795.47   | 0.00        |
| 17,300.0                               | 00:00  | 00 180.40  | 11,434.0 | 7,858.9 | -5,866.2 | 618.4  | 798,941.17 | 481,145.19   | 5,895.17   | 0.00        |
| 17 400 0                               | 0000   | 000  | 11 434 0 | 7.858.9 | -5 966 2 | 6177   | 798 940 47 | 481.045.20   | 5 994 87   | 0.00        |

# Morcor Engineering

Morcor Standard Plan

|                          | Dell Lake Unit North 413H Bell Lake Unit North 413H 191214 Bell Lake Unit North 413H | Į      |            |              |               | MD Reference: North Reference: Survey Calculation Method: Database: | on Method:        | WELL @ 3575.1usft (Origina<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db | WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db | 55                  |
|--------------------------|--|--------|------------|--------------|---------------|---|-------------------|--|---|---------------------|
| Planned Survey MD (usft) | Inc Azi (azimuth)  | muth)  | TVD (usft) | TVDSS (usft) | N/S<br>(usft) | EW (usft)   | Easting<br>(usft) | Northing<br>(usft)   | V. Sec<br>(usft)  | DLeg<br>(*/100usft) |
| 17,500.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,066.2      | 617.0   | 798,939.78        | 480,945.20   | 6,094.57  | 0.00                |
| 17,600.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,166.1      | 616.3   | 798,939.08        | 480,845.20   | 6,194.27  | 0.00                |
| 17,700.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,266.1      | 615.7   | 798,938.38        | 480,745.20   | 6,293.97  | 0.00                |
| 17,800.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,366.1      | 615.0   | 798,937.69        | 480,645.21   | 6,393,67  | 0.00                |
| 17,900.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,466.1      | 614.3   | 798,936.99        | 480,545.21   | 6,493.37  | 0.00                |
| 18,000.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,566.1      | 613.6   | 798,936.30        | 480,445.21   | 6,593.06  | 0.00                |
| 18,100.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,666.1      | 612.9   | 798,935.60        | 480,345.21   | 6,692.76  | 0.00                |
| 18,200.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,766.1      | 612.2   | 798,934.91        | 480,245.22   | 6,792.46  | 0.00                |
| 18,300.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,866.1      | 611.5   | 798,934.21        | 480,145.22   | 6,892.16  | 0.00                |
| 18,400.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -6,966.1      | 610.8   | 798,933.52        | 480,045.22   | 6,991.86  | 0.00                |
| 18,500.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,066.1      | 610.1   | 798,932.82        | 479,945.22   | 7,091.56  | 0.00                |
| 18,600.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,166.1      | 609.4   | 798,932.13        | 479,845.23   | 7,191.26  | 0.00                |
| 18,700.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,266.1      | 608.7   | 798,931.43        | 479,745.23   | 7,290.96  | 0.00                |
| 18,800.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,366.1      | 0.809   | 798,930.74        | 479,645.23   | 7,390.66  | 0.00                |
| 18,900.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,466.1      | 607.3   | 798,930.04        | 479,545.23   | 7,490.36  | 0.00                |
| 19,000.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,566.1      | 9'909   | 798,929.35        | 479,445.24   | 7,590.06  | 0.00                |
| 19,100.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,666.1      | 605.9   | 798,928.65        | 479,345.24   | 7,689.76  | 0.00                |
| 19,200.0                 | 00.06  | 180.40 | 11,434.0   | 7,858.9      | -7,766.1      | 605.2   | 798,927.96        | 479,245.24   | 7,789.46  | 0.00                |
| 19,300.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,866.1      | 604.5   | 798,927.26        | 479,145.24   | 7,889.16  | 0.00                |
| 19,400.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -7,966.1      | 603.8   | 798,926.57        | 479,045.25   | 7,988.86  | 0.00                |
| 19,500.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -8,066.1      | 603.1   | 798,925.87        | 478,945.25   | 8,088.56  | 0.00                |
| 19,600.0                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -8,166.1      | 602.4   | 798,925.18        | 478,845.25   | 8,188.25  | 0.00                |
| 19,697.8                 | 90.00  | 180.40 | 11,434.0   | 7,858.9      | -8,263.9      | 601.8   | 798,924.50        | 478,747.45   | 8,285.76  | 0.00                |
| TD at 19697              | TD at 19697.8 - 5 1/2" Production Casing   | 180.40 | 11 434 0   | 7 858 9      | -8 266 1      | 6018  | 798 924.48        | 478.745.25   | 8.287.95  | 00.0                |
| 0.00.10                  |  |        |            |              |               | !   |                   |  |   |                     |
| 19 800 0                 | 00 06  | 180.40 | 11.434.0   | 7.858.9      | -8.366.1      | 601.1   | 798,923.79        | 478,645.26   | 8,387.65  | 00.0                |

Page 11

# Morcor Engineering

Morcor Standard Plan

| Project:       | Kaiser Francis<br>Bell Lake Unit N | Kaiser Francis<br>Bell Lake Unit North 413H |               |          |         |          | Local Co-ordinate Reference: TVD Reference: | te Kererence: | WELL @ 3575.1usft (Original W | Well Bell Lake Unit North 413H<br>WELL @ 3575.1usft (Original Well Elev) |             |
|----------------|------------------------------------|---|---------------|----------|---------|----------|---|---------------|-------------------------------|--|-------------|
| Site:          | Bell Lake Un                       | Bell Lake Unit North 413H                   |               |          |         |          | MD Reference:                               |               | WELL @ 3575.1ust              | WELL @ 3575.1usft (Original Well Elev)                                   |             |
| Well:          | Bell Lake Un                       | Bell Lake Unit North 413H                   |               |          |         |          | North Reference:                            |               | Grid                          |  |             |
| Wellbore:      | Bell Lake Un                       | Bell Lake Unit North 413H                   | _             |          |         |          | Survey Calculation Method:                  | ion Method:   | Minimum Curvature             | pti  |             |
| Design:        | 191214 Beil                        | 191214 Bell Lake Unit North 413H            | rth 413H      |          |         |          | Database:                                   |               | EDM 5000.1 Single User Db     | User Db  |             |
| Planned Survey | éy                                 |   |               |          |         |          |   |               |                               |  |             |
| WD             | nc Inc                             |   | Azi (azimuth) | ΔVT      | TVDSS   | S/N      | E/W   | Easting       | Northing                      | V. Sec   | DLeg        |
| (usft)         | E                                  |   | 3             | (nstt)   | (nst)   | (nst)    | (nst)                                       | (nstt)        | (nstf)                        | (nsft)   | (°/100usft) |
| 19.            | 19,920.3                           | 90.00                                       | 180.40        | 11,434.0 | 7,858.9 | -8,486.4 | 600.2                                       | 798,922.95    | 478,524.95                    | 8,507.60   | 00.00       |

| .0 10,761.0 75/8" Intermediate Casing<br>.0 1,212.0 13.98" Surface Casing<br>.0 120.0 20" Conductor<br>.8 11.434.0 5.1/2" Production Casing | (Hsn) (Hsn)                         | Name   | (")    |  |
|---|-------------------------------------|--------|--------|--|
| 1,212.0 13.3/8" Surface Casing 13-3/8 120.0 20" Conductor 20 11.434.0 5.1/2" Production Casino 5-1/2  | 0.                                  |        | 8/2-6  |  |
| 120.0 20" Conductor 20<br>11.434.0 5.1/2" Production Casino 5-1/2   |                                     | asing  | 14-3/4 |  |
| 11.434.0 5.1/2" Production Casina 5-1/2   |                                     |        | 26     |  |
|   | 19,697.8 11,434.0 5 1/2" Production | Casing | 6-3/4  |  |

Casing Points

| Measured | Depth<br>(usft)          |
|----------|--------------------------|
|          | (usft) Name Lithology (" |
|          | (j) (j)                  |

Page 12

# Morcor Engineering

Morcor Standard Plan

| Site:<br>Well:<br>Wellbore: | Bell Lake Unit North 413H Bell Lake Unit North 413H Bell Lake Unit North 413H | Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>Bell Lake Unit North 413H<br>Bell Lake Unit North 413H |                   |                 |                                 | TVD Reference: MD Reference: North Reference: Survey Calculation Method: | WELL @ 35/5.1usft (Original Well Elev) WELL @ 3575.1usft (Original Well Elev) Grid Minimum Curvature |
|-----------------------------|---|--|-------------------|-----------------|---------------------------------|--|--|
| Design:                     | 191214 Bell L   | 191214 Bell Lake Unit North 413H   | HSH.              |                 |                                 | Database:  | EDM 5000.1 Single User Db  |
| Plan Annotations            | ons   | Vertical   | Local Coordinates | nates           |                                 |  |  |
|                             | Depth<br>(usft)   | Depth<br>(usft)  | +NS<br>(usft)     | +E/-W<br>(usft) | Comment                         |  |  |
|                             | 10,860.0  | 10,860.0   | 0.0               | 0.0             | Start Build 10.00               |  |  |
|                             | 11,757.3  | 11,433.1   | -402.3            | 404.0           | Start DLS 1.54 TFO -87.06       |  |  |
|                             | 12,126.2  | 11,433.9   | -710.1            | 602.2           | Start 7571.5 hold at 12126.2 MD |  |  |
|                             | 19,697.8  | 11,434.0   | -8,252.3          | 1,234.3         | TD at 19697.8                   |  |  |



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

SUPO Data Report

APD ID: 10400053946

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Submission Date: 02/04/2020

Well Number: 413H

Well Work Type: Drill

Highlighted data reflects the most

recent changes

**Show Final Text** 

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

BLUN\_413H\_Existing\_Roads\_20200203120932.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:** 

BLUN\_413H\_Access\_Road\_20200203120945.pdf

New road type: RESOURCE

Length: 882

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

**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? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

**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: BLM's caliche pit in SWSW Section 22-T24-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 consistent with 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:

BLUN\_413H\_1MILE\_WELLS\_20200203121008.pdf BLUN\_413H\_1\_Mile\_Wells\_Map\_20200203121008.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 south 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 48X 10 2-phase sep

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

# Section 5 - Location and Types of Water Supply

### **Water Source Table**

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: Source trai

Water source volume (barrels): 20000

is a mixture of Federal, State and County. Source volume (acre-feet): 2.57786193

Source volume (gal): 840000

Water source type: OTHER

Describe type: FRESH WATER

Water source use type:

STIMULATION

OTHER

Describe use type: ROAD/PAD CONSTRUCTION ANI

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

iip. Ottillik

Describe transportation land ownership: Source trai

Water source volume (barrels): 250000

is a mixture of Federal, State and County. Source volume (acre-feet): 32.223274

Source volume (gal): 10500000

Page 3 of 10

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

Water source and transportation map:

BLUN\_Pad\_12\_Water\_Source\_Map\_20200124081154.pdf

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

New water well? N

**New Water Weil 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: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency: Weekly

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

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

Safe containment 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 located in Section 27-T20S-R32E on US 62/180 at

Halfway, NM

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency: Weekly

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 (Carlsbad sewer plant SENW Section 10-T22S-

R27E)

Waste type: GARBAGE

Waste content description: Miscellaneous trash

Amount of waste: 500 pounds

Waste disposal frequency: Weekly

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

container and disposed of properly Safe containmant attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility (Sandpoint Landfill (solid materials dump) NW/4

Section 11-T21S-R28E)

# Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

### Reserve pit liner specifications and installation description

# **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

**Description of cuttings location** Cuttings will be stored in roll off bins and hauled to R360 located in Section 27-T20S-R32E 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?: N

**Ancillary Facilities attachment:** 

### Comments:

## **Section 9 - Well Site Layout**

### Well Site Layout Diagram:

BLUN\_413H\_Wellsite\_Layout\_20200203121111.pdf BLUN\_Pad\_12\_Drilling\_Layout\_20200827151003.pdf

### Comments:

### Section 10 - Plans for Surface Reclamation

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

Multiple Well Pad Number: 12

### Recontouring attachment:

BLUN\_Pad\_12\_IR\_20200827151026.pdf

**Drainage/Erosion control construction:** During construction proper erosion control methods will be used to control erosion, runoff and siltation of the surrounding area.

**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 NORTH Well Number: 413H

Well pad proposed disturbance

(acres): 5.96

Road proposed disturbance (acres):

0.607

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 6.567

Well pad interim reclamation (acres): Well pad long term disturbance

0.91

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.91

(acres): 5.05

Road long term disturbance (acres):

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 5.657

### **Disturbance Comments:**

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: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: None

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

Seed harvest description:

Seed harvest description attachment:

**Seed Management** 

**Seed Table** 

Seed Summary

Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Last Name:

Phone: Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

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 NORTH Well Number: 413H

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

DOD Local Office:

**NPS Local Office:** 

State Local Office: NM STATE LAND OFFICE, 602 N CANAL ST B, CARLSBAD, NM 88220

**Military Local Office:** 

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

USFS Forest/Grassland: USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

State Local Office: NM STATE LAND OFFICE, 602 N CANAL STE B, CARLSBAD NM 88220

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

**Section 12 - Other Information** 

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

**ROW Applications** 

**SUPO Additional Information:** 

Use a previously conducted onsite? Y

**Previous Onsite information:** Onsite conducted 10/24/2019 by Nik MacPhee (BLM), Eric Hansen (Kaiser-Francis) and Frank Jaramillo (Madron Surveying).

Other SUPO Attachment



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

PWD Data Report

APD ID: 10400053946

Submission Date: 02/04/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 413H

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? N

**Produced Water Disposal (PWD) Location:** 

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

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 NORTH Well Number: 413H

**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? N

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 NORTH Well Number: 413H

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? N

**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? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

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**

APD ID: 10400053946

Submission Date: 02/04/2020

Highlighted data reflects the most

**Operator Name: KAISER FRANCIS OIL COMPANY** 

recent changes

Well Name: BELL LAKE UNIT NORTH

Well Number: 413H

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

## **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:

District [ 1625 N. French Dr. Hobbs NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax; (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

480

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

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

☐ AMENDED REPORT

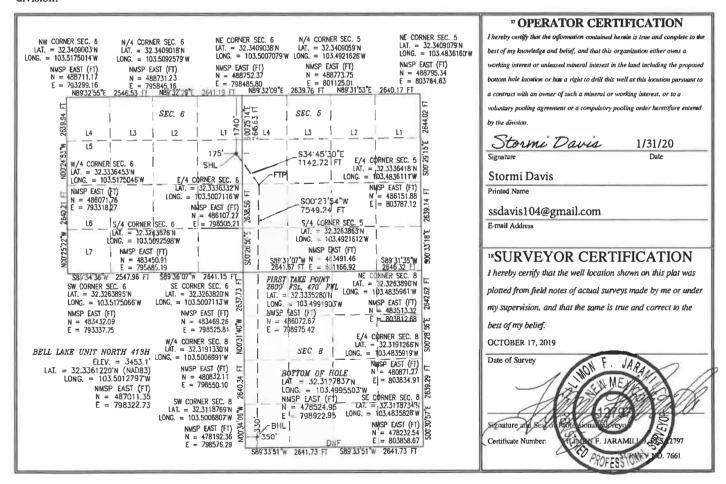
### WELL LOCATION AND ACREAGE DEDICATION PLAT

| <sup>1</sup> API Number    | <sup>2</sup> Pool Code        | <sup>2</sup> Pool Code <sup>3</sup> Pool Name |  |  |  |  |  |  |
|----------------------------|-------------------------------|---|--|--|--|--|--|--|
| 30-025-48558               | 98265                         | Ojo Chiso; Wolfcamp, Southwest                |  |  |  |  |  |  |
| <sup>4</sup> Property Code | <sup>5</sup> Pı               | 6 Well Number                                 |  |  |  |  |  |  |
| 316707                     | BELL LAKE UNIT NORTH          |   |  |  |  |  |  |  |
| OGRID No.                  | 8 O                           | ' Elevation                                   |  |  |  |  |  |  |
| 12361                      | KAISER-FRANCIS OIL CO. 3453.1 |   |  |  |  |  |  |  |

R-14602

|  |  |          |       |         | Surface       | Location         |               |                |        |  |  |  |
|--|--|----------|-------|---------|---------------|------------------|---------------|----------------|--------|--|--|--|
| UL or lot no.  | Section  | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |  |  |  |
| H  | 6  | 23 S     | 34 E  |         | 1740          | NORTH            | NORTH 175     |                | LEA    |  |  |  |
|  | " Bottom Hole Location If Different From Surface |          |       |         |               |                  |               |                |        |  |  |  |
| UL or lot no.  | Section  | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |  |  |  |
| M  | 8  | 23 S     | 34 E  |         | 330           | SOUTH            | 350           | WEST           | LEA    |  |  |  |
| <sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code |  |          |       |         | 15 Order No.  |                  |               |                |        |  |  |  |

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



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

### GAS CAPTURE PLAN

| Date: 01/10/2020                  |   |
|-----------------------------------|---|
| □ Original                        | Operator & OGRID No.: Kaiser-Francis Oil Company, 12361 |
| ☐ Amended - Reason for Amendment: |   |
|                                   |   |

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

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

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

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

| Well Name                 | API | Well Location<br>(ULSTR) | Footages     | Expected MCF/D | Flared or<br>Vented | Comments |
|---------------------------|-----|--------------------------|--------------|----------------|---------------------|----------|
| Bell Lake Unit North 212H |     | 6-23S-34E                |              | 2000           | 0                   |          |
| Bell Lake Unit North 213H |     | 6-23S-34E                |              | 2000           | 0                   |          |
| Bell Lake Unit North 312H |     | 6-23S-34E                |              | 2000           | 0                   |          |
| Bell Lake Unit North 313H |     | 6-23S-34E                |              | 2000           | 0                   |          |
| Bell Lake Unit North 412H |     | 6-23S-34E                |              | 2000           | 0                   |          |
| Bell Lake Unit North 413H |     | 6-23S-34E                | 30-025-48558 | 2000           | 0                   |          |

## **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Targa</u> and will be connected to <u>Targa</u> low/high pressure gathering system located in <u>Lea\_County</u>, New Mexico. It will require <u>11,000'</u> of pipeline to connect the facility to low/high pressure gathering system. <u>Kaiser-Francis Oil Company</u> provides (periodically) to <u>Targa</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Kaiser-Francis Oil Company</u> and <u>Targa</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Targa</u> Processing Plant located in Sec. <u>36</u>, Twn. <u>19S</u>, Rng. <u>36E</u>, <u>Lea\_County</u>, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

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

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

## **Alternatives to Reduce Flaring**

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

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

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

Pressure Rating (PSI): 5M Rating Depth: 13000

**Equipment:** A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. 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 MultiBowl Wellhead

**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:**

BLUN\_Pad\_12\_Choke\_Manifold\_20200203102656.pdf

### **BOP Diagram Attachment:**

Annular\_BOP\_Variance\_Request\_20200203095113.pdf
Cactus\_Flex\_Hose\_16C\_Certification\_20200203095241.pdf
BLUN\_413H\_BOP\_20200203120417.pdf
BLUN\_413H\_Well\_Head\_20200203120459.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<br>length MD | Grade       | Weight | Joint Type                  | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|-------------|--------|-----------------------------|-------------|----------|---------------|----------|--------------|---------|
| 1         | SURFACE          | 14.7<br>5 | 10.75    | NEW       | API      | N              | 0          | 1212          | 0           | 1212           | 3453        | 2241           | 1212                           | J-55        | 40.5   | ST&C                        | 2.8         | 5.5      | DRY           | 8.6      | DRY          | 12.8    |
| 2         | INTERMED<br>IATE | 9.87<br>5 | 7.625    | NEW       | API      | N              | 0          | 10761         | 0           | 10761          | 3452        | -7308          | 10761                          | HCP<br>-110 | 29.7   | LT&C                        | 1.3         | 1.9      | DRY           | 2.4      | DRY          | 2.9     |
| 3         | PRODUCTI<br>ON   | 6.75      | 5.5      | NEW       | API      | N              | D          | 19697         | 0           | 11434          |             | -7981          | 19697                          | P-<br>110   |        | OTHER -<br>USS Eagle<br>SFH | 1.8         | 2        | DRY           | 2.8      | DRY          | 3.2     |

Well Number: 413H Well Name: BELL LAKE UNIT NORTH

### **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $BLUN\_413H\_Casing\_Assumptions\_20200203120700.pdf$ 

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

BLUN\_413H\_Casing\_Assumptions\_20200203120617.pdf

Casing ID: 3

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

5.5 x 20\_P110\_HP\_USS\_EAGLE\_SFH\_Performance\_Sheet\_20200203095604.pdf

BLUN\_413H\_Casing\_Assumptions\_20200203120641.pdf

Section 4 - Cement

Well Name: BELL LAKE UNIT NORTH Well Number: 413H

| String Type | Lead/Tail | Stage Tool<br>Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives    |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--------------|
| SURFACE     | Lead      |                     | 0      | 1212      | 584          | 1.72  | 13.5    | 1010  | 50      | ExtendaCem  | Poly E Flake |

| INTERMEDIATE. | Lead | 0    | 1076<br>1 | 814 | 2.73 | 11   | 2224 | 25 | NeoCem   | Extender |
|---------------|------|------|-----------|-----|------|------|------|----|----------|----------|
| INTERMEDIATE  | Tail | 0    | 1076<br>1 | 556 | 1.2  | 15.6 | 665  | 25 | Halcem   | none     |
| PRODUCTION    | Lead | 9000 | 1969<br>7 | 840 | 1.22 | 14.5 | 1027 | 15 | VersaCem | Halad    |

# 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 time.

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) | ЬН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1076<br>1 | 1143<br>4    | OIL-BASED<br>MUD                  | 10                   | 12                   |                     |                             |    |                |                |                 |                            |
| 1212      | 1076<br>1    | OTHER : Diesel-<br>Brine Emulsion | 8.8                  | 9.2                  |                     |                             |    |                |                |                 |                            |
| 0         | 1212         | OTHER : Fresh<br>Water            | 8.4                  | 9                    |                     |                             |    |                |                |                 |                            |

Date: 3/12/2021

To: NMOCD

From: Charlotte Van Valkenburg

Re: Closed-Loop System

It is the intention of Kaiser-Francis Oil Company to use a closed-loop system during drilling of the following well:

Bell Lake Unit North 413H Sec. 6-23S-34E Lea Co., NM

Charlotte Van Valkenburg

Mgr., Regulatory Compliance

Kaiser-Francis Oil Company

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

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 20665

### **CONDITIONS OF APPROVAL**

| Operator:             |                |                | OGRID: | Action Number: | Action Type: |
|-----------------------|----------------|----------------|--------|----------------|--------------|
| KAISER-FRANCIS OIL CO | P.O. Box 21468 | Tulsa, OK74121 | 12361  | 20665          | FORM 3160-3  |

| OCD<br>Reviewer | Condition  |
|-----------------|--|
| pkautz          | Will require a File As Drilled C-102 and a Directional Survey with the C-104   |
| 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 |