Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM0001244A

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.
BELL LAKE / NMNM 068292X

8. Lease Name and Well No.
BELL LAKE UNIT NORTH [316707]
425H

2. Name of Operator
KAISER FRANCIS OIL COMPANY [12361]

9. API Well No. 30-025-48555

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory [98265]
6733 S. Yale Ave., Tulsa, OK 74121	(918) 491-0000	OJO CHISO/WOLFCAMP, SOUTHWEST

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface LOT 5 / 2380 FNL / 550 FWL / LAT 32.3343602 / LONG -103.515724
At proposed prod. zone LOT 1 / 330 FNL / 350 FWL / LAT 32.354508 / LONG -103.516383

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 6/T23S/R34E/NMP

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State
20 miles	LEA	NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
260 feet	634.35	480.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
30 feet	11580 feet / 19735 feet	FED: WYB000055

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3489 feet	06/01/2020	40 days

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	MELANIE WILSON / Ph: (918) 491-0000	02/06/2020

Title
Regulatory Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	09/11/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

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

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

GCP Rec 03/12/2021

SL

APPROVED WITH CONDITIONS

KZ
03/12/2021

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 09/11/2020

PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Kaiser Francis Oil Company**
LEASE/UNIT NO.:	**NMNM0001244A/068292X**
WELL NAME & NO.:	**Bell Lake Unit North 424H**
SURFACE HOLE FOOTAGE:	**2380' FNL & 550' FWL**
BOTTOM HOLE FOOTAGE	**330' FNL & 350' FWL**
LOCATION:	**Section 6, T 23S, R 34E, NMPM**
COUNTY:	**Lea County, New Mexico**

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
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

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated **500 feet** prior to drilling into the **Bell Lake producing** formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4"** surface casing shall be set at approximately **1275'** (to protect fresh water anticipated to 1250') and cemented to surface.
   a. **If cement does not circulate to 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 **6 hours** after pumping cement, ideally between 8-10 hours after.
   b. WOC time for a primary cement job will be a minimum of **8 hours** or **500 psi** compressive strength, whichever is greater. This is to include the lead cement.
   c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
   d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

2. The **7-5/8"** intermediate casing shall be cemented to surface.
   a. **If cement does not circulate to surface,** see B.1.a, c & d.
3. The **5-1/2"** production casing shall be cemented with at least **200' tie-back** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
2. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

D. SPECIAL REQUIREMENTS

2. 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 once it has been established.
   a. A commercial well determination shall be submit after production has been established for at least six months. Secondary recovery unit wells are exempt from this requirement.

DR 9/9/2020

Approval Date: 09/11/2020

GENERAL REQUIREMENTS

1. The BLM is to be notified in advance for a representative to witness:
   a. Spudding the well (minimum of 24 hours)
   b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
   c. BOP/BOPE tests (minimum of 4 hours)
      ☒ Eddy County: Call the Carlsbad Field Office, (575) 361-2822
      ☒ Lea County: Call the Hobbs Field Station, (575) 393-3612
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig:
      i. Notify the BLM when moving in and removing the Spudder Rig.
      ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      iii. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
4. 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 available upon request. 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 the portion of well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. If the operator has proposed a multi-bowl wellhead assembly in the APD, it must meet or exceed the pressure rating of the BOP system. Additionally, the following requirements must be met:
   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. 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 Onshore Order 2 III.A.2.i must be followed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the BOP/BOPE 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 which 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. The results of the test shall be made available upon request.
   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 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. This test shall be performed prior

to the test at full stack pressure.

f. BOP/BOPE must be tested 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

1. 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

1. 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.
2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

AFMSS

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

Operator Certification Data Report

09/14/2020

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Melanie Wilson **Signed on:** 02/05/2020

Title: Regulatory Analyst

Street Address: 106 W. Riverside Drive

City: Carlsbad **State:** NM **Zip:** 88220

Phone: (575)914-1461

Email address: nmogrservices@gmail.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

AFMSS

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

Application Data Report

09/14/2020

APD ID: 10400054020
Submission Date: 02/06/2020
Operator Name: KAISER FRANCIS OIL COMPANY
Well Name: BELL LAKE UNIT NORTH
Well Number: 425H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400054020
Tie to previous NOS? N
Submission Date: 02/06/2020
BLM Office: CARLSBAD
User: Melanie Wilson
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM0001244A
Lease Acres: 634.35
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? YES
Federal or Indian agreement: FEDERAL
Agreement number: NMNM068292X
Agreement name: BELL LAKE
Keep application confidential? 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.
Zip: 74121
Operator PO Box: PO Box 21468
Operator City: Tulsa
State: OK
Operator Phone: (918)491-0000
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: BELL LAKE UNIT NORTH
Well Number: 425H
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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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:** NORTH BELL LAKE UNIT **Number:** 7

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 20 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 260 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: BLUN_425H_C102_20200205150719.pdf

BLUN_425H_Pymt_20200206140907.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: 7084A **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 Leg #1	2380	FNL	550	FWL	23S	34E	6	Lot 5	32.3343602	-103.515724	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0001244A	3489	0	0	N
KOP Leg #1	2106	FSL	421	FWL	23S	34E	6	Lot 6	32.3321804	-103.516162	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0000587	-7518	11054	11007	N

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-1	2600	FNL	410	FWL	23S	34E	6	Lot 5	32.3337553	-103.5161774	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0001244A	-8091	11954	11580	Y
PPP Leg #1-2	0	FSL	350	FWL	22S	34E	31	Lot 4	32.341	-103.516245	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 070544B	-8091	14650	11580	Y
PPP Leg #1-3	2640	FNL	350	FWL	22S	34E	31	Lot 2	32.348446	-103.516319	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 070544A	-8091	17425	11580	Y
EXIT Leg #1	330	FNL	350	FWL	22S	34E	31	Lot 1	32.354508	-103.516383	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 070544A	-8091	19735	11580	Y
BHL Leg #1	330	FNL	350	FWL	22S	34E	31	Lot 1	32.354508	-103.516383	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 070544A	-8091	19735	11580	Y

mjp1692@gmail.com

From: notification@pay.gov
Sent: Thursday, February 6, 2020 2:08 PM
To: mjp1692@gmail.com
Subject: Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment


An official email of the United States government

Pay.gov

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: 26NC2B6O
Agency Tracking ID: 75946482276
Transaction Type: Sale
Transaction Date: 02/06/2020 04:07:35 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: 10400054020
Lease Numbers: NMNM0001244A
Well Numbers: 425H
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

AFMSS

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

Drilling Plan Data Report

09/14/2020

APD ID: 10400054020 **Submission Date:** 02/06/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
655418	---	3489	0	0	OTHER : Surface	NONE	N
655419	RUSTLER	2339	1150	1150	SANDSTONE	NONE	N
655420	SALADO	2039	1450	1450	SALT	NONE	N
655421	TOP SALT	1739	1750	1750	SALT	NONE	N
655422	BASE OF SALT	-1051	4540	4540	SALT	NONE	N
655423	LAMAR	-1336	4825	4825	SANDSTONE	NATURAL GAS, OIL	N
655424	BELL CANYON	-1661	5150	5150	SANDSTONE	NATURAL GAS, OIL	N
655425	CHERRY CANYON	-1886	5375	5375	SANDSTONE	NATURAL GAS, OIL	N
655426	BRUSHY CANYON	-4511	8000	8000	SANDSTONE	NATURAL GAS, OIL	N
655427	BONE SPRING	-4786	8275	8275	LIMESTONE	NATURAL GAS, OIL	N
655428	AVALON SAND	-5146	8635	8635	SANDSTONE	NATURAL GAS, OIL	N
655429	BONE SPRING 1ST	-6086	9575	9575	SANDSTONE	NATURAL GAS, OIL	N
655436	BONE SPRING 2ND	-6601	10090	10090	SANDSTONE	NATURAL GAS, OIL	Y
655440	BONE SPRING LIME	-7211	10700	10700	LIMESTONE	NATURAL GAS, OIL	N
655441	BONE SPRING 3RD	-7576	11065	11065	SANDSTONE	NATURAL GAS, OIL	N
655442	WOLFCAMP	-7891	11380	11380	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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_425H_Choke_Manifold_20200205152800.pdf

BOP Diagram Attachment:

BLUN_425H_BOP_20200205152828.pdf

BLUN_425H_Wellhead_20200205152828.pdf

BLUN_425H_Annular_Variance_Rqst_20200205152829.pdf

BLUN_425H_Flex_Hose_20200205152829.pdf

BLUN_Well_Control_Plan_20200205152852.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	14.75	10.75	NEW	API	N	0	1210	0	1210	3489	2279	1210	J-55	40.5	ST&C	2.8	5.5	DRY	8.6	DRY	12.8
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10954	0	10907		-7418	10954	HCP-110	29.7	LT&C	1.3	1.9	DRY	2.4	DRY	2.9
3	PRODUCTION	6.75	5.5	NEW	API	N	0	19735	0	11580		-8091	19735	HCP-110	20	OTHER - USS Eagle SFH	1.8	2	DRY	2.7	DRY	3.1

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Casing_Assumptions_20200205153116.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Casing_Assumptions_20200205152953.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Prod_Csg_Specs_20200205153015.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1210	583	1.7	13.5	1008	50	ExtendaCem	Poly E Flake
INTERMEDIATE	Lead		0	10954	829	2.7	11	2263	25	NeoCem	Extender
INTERMEDIATE	Tail		0	10954	566	1.2	15.6	677	25	Halcem	none
PRODUCTION	Lead		9000	19735	843	1.2	14.5	1030	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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
10907	11580	OIL-BASED MUD	10	12							
1210	10907	OTHER : Brine	8.7	9							
0	1210	OTHER : Fresh Water	8.4	9							

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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: 7226 **Anticipated Surface Pressure:** 4678

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_425H_Directional_Plan_20200205153457.pdf

Other proposed operations facets description:

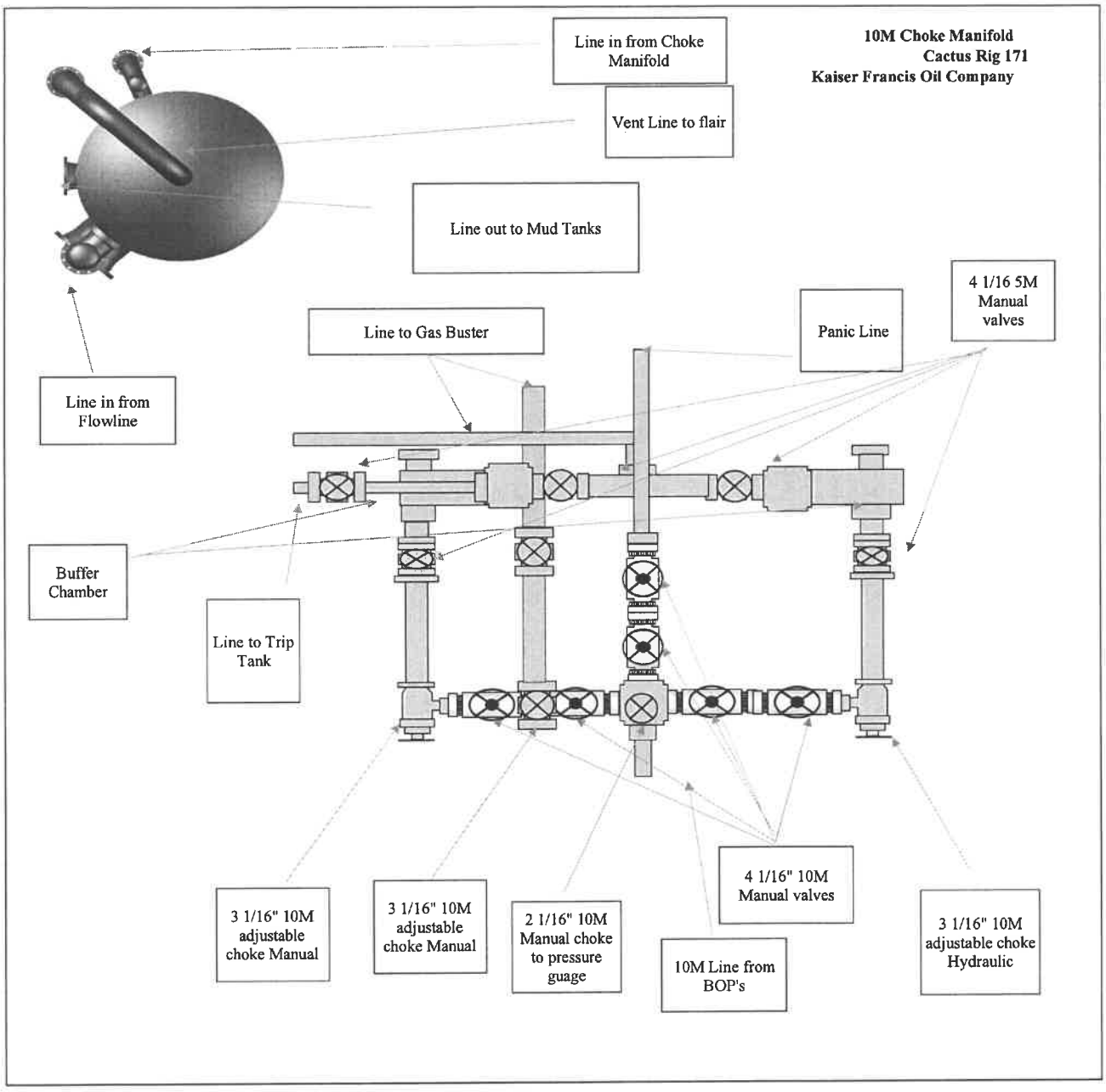
Gas Capture Plan attached

Other proposed operations facets attachment:

BLUN_Pad_7_GCP_20200205153503.pdf

Other Variance attachment:

BLUN_425H_Annular_Variance_Rqst_20200205153528.pdf
BLUN_425H_Flex_Hose_20200205153528.pdf
BLUN_425H_Wellhead_20200205153531.pdf


10M Choke Manifold
Cactus Rig 171
Kaiser Francis Oil Company
Line in from Choke Manifold
Vent Line to flair
Line out to Mud Tanks
4 1/16 5M Manual valves
Panic Line
Line to Gas Buster
Line in from Flowline
Buffer Chamber
Line to Trip Tank
3 1/16" 10M adjustable choke Manual
3 1/16" 10M adjustable choke Manual
2 1/16" 10M Manual choke to pressure guage
10M Line from BOP's
4 1/16" 10M Manual valves
3 1/16" 10M adjustable choke Hydraulic

KAISER-FRANCIS OIL COMPANY
HYDROGEN SULFIDE (H_2S) 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_2S, but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

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

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

General Responsibilities

In the event of an H_2S emergency, the following plan will be initiated.

1) All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".

2) If for any reason a person must enter the hazardous area, they must wear a SCBA (Self contained breathing apparatus).

3) Always use the "buddy system".

4) Isolate the well/problem if possible.

5) Account for all personnel

6) Display the proper colors, warning all unsuspecting personnel of the danger at hand

7) Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed)

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

INDIVIDUAL RESPONSIBILITIES DURING AN H_2S 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:

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

All Other Personnel:

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

Kaiser-Francis Oil Company Representative:

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

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:
Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

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

1) Human life and/or property are in danger.

2) There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTIONS FOR IGNITION:

1) Two people are required. They must be equipped with positive pressure; self contained breathing apparatus and a "D"-ring style, full body, OSHA approved safety harness. Non-flammable rope will be attached.

2) One of the people will be a qualified safety person who will test the atmosphere for H_2S, 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)

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

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

State Police – Artesia	575/748-9718
State Police – Hobbs	575/392-5580
State Police – Carlsbad	575/885-3138
Lea County Sheriff - Lovington	575/396-3611
Local Emergency Planning Center – Lea County	575/396-8607
Local Emergency Planning Center – Eddy County	575/885-3581
Fire Fighting, Rescue & Ambulance – Carlsbad	911 or 575/885-3125
Fire Fighting, Rescue & Ambulance – Hobbs	911 or 575/397-9308
Fire Fighting – Jal Volunteer Fire Department	911 or 505/395-2221
New Mexico Oil & Gas Commission – Artesia	575/748-1283
New Mexico Oil & Gas Commission – Hobbs	575/393-6161
Air Medical Transport Services – Hobbs	800/550-1025
Med Flight Air Ambulance – Albuquerque	505/842-4433
Angel MedFlight	844/553-9033
DXP	432/580-3770
BJ Services	575/392-5556
Halliburton	575/392-6531 800/844-8451

PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event of a release with a concentration greater than 100 ppm H_2S, the ROE (Radius of Exposure) calculations will be done to determine if the following conditions have been met:

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

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

Calculation for the 100 ppm ROE:

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

(H2S concentrations in decimal form)
10,000 ppm +=1.+
1,000 ppm +=.1+
100 ppm +=.01+
10 ppm +=.001+

Calculation for the 500 ppm ROE:

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

EXAMPLE: If a well/facility has been determined to have 150 ppm H_2S in the gas mixture and the well/facility is producing at a gas rate of 200 MCFPD then:

ROE for 100 PPM X=[(1.589)(.0150)(200)] (0.6258)
X=2.65'

ROE for 500 PPM X=[(.4546)(.0150)(200)] (0.6258)
X=1.2'

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

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

1) Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.

2) A trained person in H_2S safety, shall monitor with detection equipment the H_2S 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_2S, oxygen, and flammable values.)**

3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.

4) The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

CHARACTERISTICS OF H_2S AND SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = 1	10 ppm	100 ppm	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = 1	2 ppm	N/A	1000 ppm

TRAINING:

All responders must have training in the detection of H_2S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H_2S monitors at all times.

PUBLIC RELATIONS

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

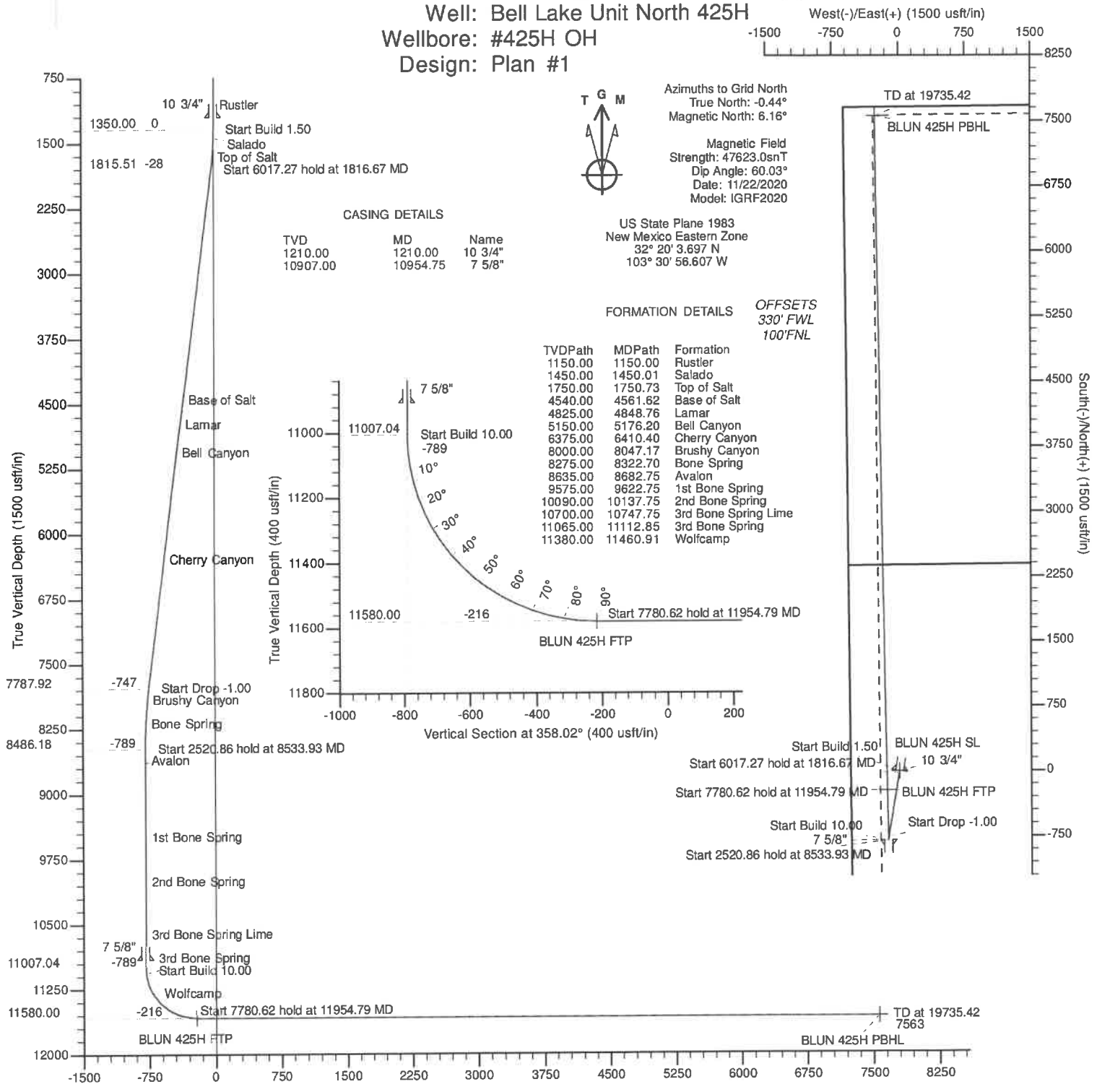
Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

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

Kaiser-Francis Oil Company

Project: Permian NM E'83
County: Lea
Site: BLUN Pad 7
Well: Bell Lake Unit North 425H
Wellbore: #425H OH
Design: Plan #1

TITAN Directional Drilling



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BLUN 425H SL	0.00	0.00	0.00	486336.07	793866.23	32° 20' 3.697 N	103° 30' 56.607 W
BLUN 425H FTP	11580.00	-221.15	-138.33	486114.92	793727.90	32° 20' 1.519 N	103° 30' 58.239 W
BLUN 425H PBHL	11580.00	7558.48	-261.78	493894.41	793604.45	32° 21' 18.505 N	103° 30' 58.986 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1350.00	0.00	0.00	1350.00	0.00	0.00	0.00	0.00	0.00	
3	1816.67	7.00	189.24	1815.51	-28.10	-4.57	1.50	189.24	-27.93	
4	7833.93	7.00	189.24	7787.92	-751.90	-122.38	0.00	0.00	-747.21	
5	8533.93	0.00	0.00	8486.18	-794.05	-129.24	1.00	180.00	-789.10	
6	11054.79	0.00	0.00	11007.04	-794.05	-129.24	0.00	0.00	-789.10	
7	11954.79	90.00	359.09	11580.00	-221.16	-138.33	10.00	359.09	-216.24	
8	19735.42	90.00	359.09	11580.00	7558.48	-261.78	0.00	0.00	7563.01	BLUN 425H PBHL

S6-T23S-R34E SL
2380'FNL 550'FWL
S6-T23S-R34E FTP
2600'FNL 410'FWL
S31-T22S-R34E PBHL
100'FNL 350'FWL

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Project	Permian NM E'83		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	BLUN Pad 7, Centered on 225H				
Site Position:		**Northing:**	486,276.04 usft	**Latitude:**	32° 20' 3.103 N
From:	Map	**Easting:**	793,866.65 usft	**Longitude:**	103° 30' 56.607 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.44 °

Well	Bell Lake Unit North 425H - Slot F					
Well Position	**+N/-S**	0.00 usft	**Northing:**	486,336.07 usft	**Latitude:**	32° 20' 3.697 N
	+E/-W	0.00 usft	**Easting:**	793,866.23 usft	**Longitude:**	103° 30' 56.607 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,488.90 usft

Wellbore	#425H OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	11/22/20	6.59	60.03	47,623.01437452

Design	Plan #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	358.02	

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,210.00	0.00	0.00	1,210.00	0.00	0.00	0.00	0.00	0.00	0.00
10 3/4"									
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.75	189.24	1,400.00	-0.32	-0.05	-0.32	1.50	1.50	0.00
1,450.01	1.50	189.24	1,450.00	-1.29	-0.21	-1.28	1.50	1.50	0.00
Salado									
1,500.00	2.25	189.24	1,499.96	-2.91	-0.47	-2.89	1.50	1.50	0.00
1,600.00	3.75	189.24	1,599.82	-8.07	-1.31	-8.02	1.50	1.50	0.00
1,700.00	5.25	189.24	1,699.51	-15.82	-2.57	-15.72	1.50	1.50	0.00
1,750.73	6.01	189.24	1,750.00	-20.73	-3.37	-20.60	1.50	1.50	0.00
Top of Salt									
1,800.00	6.75	189.24	1,798.96	-26.13	-4.25	-25.97	1.50	1.50	0.00
1,816.67	7.00	189.24	1,815.51	-28.10	-4.57	-27.93	1.50	1.50	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,900.00	7.00	189.24	1,898.22	-38.13	-6.21	-37.89	0.00	0.00	0.00
2,000.00	7.00	189.24	1,997.47	-50.15	-8.16	-49.84	0.00	0.00	0.00
2,100.00	7.00	189.24	2,096.73	-62.18	-10.12	-61.80	0.00	0.00	0.00
2,200.00	7.00	189.24	2,195.98	-74.21	-12.08	-73.75	0.00	0.00	0.00
2,300.00	7.00	189.24	2,295.24	-86.24	-14.04	-85.70	0.00	0.00	0.00
2,400.00	7.00	189.24	2,394.49	-98.27	-15.99	-97.66	0.00	0.00	0.00
2,500.00	7.00	189.24	2,493.75	-110.30	-17.95	-109.61	0.00	0.00	0.00
2,600.00	7.00	189.24	2,593.00	-122.33	-19.91	-121.56	0.00	0.00	0.00
2,700.00	7.00	189.24	2,692.26	-134.35	-21.87	-133.52	0.00	0.00	0.00
2,800.00	7.00	189.24	2,791.51	-146.38	-23.83	-145.47	0.00	0.00	0.00
2,900.00	7.00	189.24	2,890.76	-158.41	-25.78	-157.42	0.00	0.00	0.00
3,000.00	7.00	189.24	2,990.02	-170.44	-27.74	-169.38	0.00	0.00	0.00
3,100.00	7.00	189.24	3,089.27	-182.47	-29.70	-181.33	0.00	0.00	0.00
3,200.00	7.00	189.24	3,188.53	-194.50	-31.66	-193.29	0.00	0.00	0.00
3,300.00	7.00	189.24	3,287.78	-206.53	-33.61	-205.24	0.00	0.00	0.00
3,400.00	7.00	189.24	3,387.04	-218.56	-35.57	-217.19	0.00	0.00	0.00
3,500.00	7.00	189.24	3,486.29	-230.58	-37.53	-229.15	0.00	0.00	0.00
3,600.00	7.00	189.24	3,585.55	-242.61	-39.49	-241.10	0.00	0.00	0.00
3,700.00	7.00	189.24	3,684.80	-254.64	-41.45	-253.05	0.00	0.00	0.00
3,800.00	7.00	189.24	3,784.06	-266.67	-43.40	-265.01	0.00	0.00	0.00
3,900.00	7.00	189.24	3,883.31	-278.70	-45.36	-276.96	0.00	0.00	0.00
4,000.00	7.00	189.24	3,982.57	-290.73	-47.32	-288.92	0.00	0.00	0.00
4,100.00	7.00	189.24	4,081.82	-302.76	-49.28	-300.87	0.00	0.00	0.00
4,200.00	7.00	189.24	4,181.08	-314.78	-51.24	-312.82	0.00	0.00	0.00
4,300.00	7.00	189.24	4,280.33	-326.81	-53.19	-324.78	0.00	0.00	0.00
4,400.00	7.00	189.24	4,379.58	-338.84	-55.15	-336.73	0.00	0.00	0.00
4,500.00	7.00	189.24	4,478.84	-350.87	-57.11	-348.68	0.00	0.00	0.00
4,561.62	7.00	189.24	4,540.00	-358.28	-58.31	-356.05	0.00	0.00	0.00
Base of Salt									
4,600.00	7.00	189.24	4,578.09	-362.90	-59.07	-360.64	0.00	0.00	0.00
4,700.00	7.00	189.24	4,677.35	-374.93	-61.02	-372.59	0.00	0.00	0.00
4,800.00	7.00	189.24	4,776.60	-386.96	-62.98	-384.54	0.00	0.00	0.00
4,848.76	7.00	189.24	4,825.00	-392.82	-63.94	-390.37	0.00	0.00	0.00
Lamar									
4,900.00	7.00	189.24	4,875.86	-398.99	-64.94	-396.50	0.00	0.00	0.00
5,000.00	7.00	189.24	4,975.11	-411.01	-66.90	-408.45	0.00	0.00	0.00
5,100.00	7.00	189.24	5,074.37	-423.04	-68.86	-420.41	0.00	0.00	0.00
5,176.20	7.00	189.24	5,150.00	-432.21	-70.35	-429.51	0.00	0.00	0.00
Bell Canyon									
5,200.00	7.00	189.24	5,173.62	-435.07	-70.81	-432.36	0.00	0.00	0.00
5,300.00	7.00	189.24	5,272.88	-447.10	-72.77	-444.31	0.00	0.00	0.00
5,400.00	7.00	189.24	5,372.13	-459.13	-74.73	-456.27	0.00	0.00	0.00
5,500.00	7.00	189.24	5,471.39	-471.16	-76.69	-468.22	0.00	0.00	0.00
5,600.00	7.00	189.24	5,570.64	-483.19	-78.64	-480.17	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,700.00	7.00	189.24	5,669.89	-495.21	-80.60	-492.13	0.00	0.00	0.00
5,800.00	7.00	189.24	5,769.15	-507.24	-82.56	-504.08	0.00	0.00	0.00
5,900.00	7.00	189.24	5,868.40	-519.27	-84.52	-516.04	0.00	0.00	0.00
6,000.00	7.00	189.24	5,967.66	-531.30	-86.48	-527.99	0.00	0.00	0.00
6,100.00	7.00	189.24	6,066.91	-543.33	-88.43	-539.94	0.00	0.00	0.00
6,200.00	7.00	189.24	6,166.17	-555.36	-90.39	-551.90	0.00	0.00	0.00
6,300.00	7.00	189.24	6,265.42	-567.39	-92.35	-563.85	0.00	0.00	0.00
6,400.00	7.00	189.24	6,364.68	-579.41	-94.31	-575.80	0.00	0.00	0.00
6,410.40	7.00	189.24	6,375.00	-580.67	-94.51	-577.05	0.00	0.00	0.00
Cherry Canyon									
6,500.00	7.00	189.24	6,463.93	-591.44	-96.26	-587.76	0.00	0.00	0.00
6,600.00	7.00	189.24	6,563.19	-603.47	-98.22	-599.71	0.00	0.00	0.00
6,700.00	7.00	189.24	6,662.44	-615.50	-100.18	-611.66	0.00	0.00	0.00
6,800.00	7.00	189.24	6,761.70	-627.53	-102.14	-623.62	0.00	0.00	0.00
6,900.00	7.00	189.24	6,860.95	-639.56	-104.10	-635.57	0.00	0.00	0.00
7,000.00	7.00	189.24	6,960.20	-651.59	-106.05	-647.53	0.00	0.00	0.00
7,100.00	7.00	189.24	7,059.46	-663.62	-108.01	-659.48	0.00	0.00	0.00
7,200.00	7.00	189.24	7,158.71	-675.64	-109.97	-671.43	0.00	0.00	0.00
7,300.00	7.00	189.24	7,257.97	-687.67	-111.93	-683.39	0.00	0.00	0.00
7,400.00	7.00	189.24	7,357.22	-699.70	-113.88	-695.34	0.00	0.00	0.00
7,500.00	7.00	189.24	7,456.48	-711.73	-115.84	-707.29	0.00	0.00	0.00
7,600.00	7.00	189.24	7,555.73	-723.76	-117.80	-719.25	0.00	0.00	0.00
7,700.00	7.00	189.24	7,654.99	-735.79	-119.76	-731.20	0.00	0.00	0.00
7,800.00	7.00	189.24	7,754.24	-747.82	-121.72	-743.15	0.00	0.00	0.00
7,833.93	7.00	189.24	7,787.92	-751.90	-122.38	-747.21	0.00	0.00	0.00
7,900.00	6.34	189.24	7,853.54	-759.47	-123.61	-754.74	1.00	-1.00	0.00
8,000.00	5.34	189.24	7,953.02	-769.51	-125.25	-764.72	1.00	-1.00	0.00
8,047.17	4.87	189.24	8,000.00	-773.65	-125.92	-768.83	1.00	-1.00	0.00
Brushy Canyon									
8,100.00	4.34	189.24	8,052.66	-777.84	-126.60	-772.99	1.00	-1.00	0.00
8,200.00	3.34	189.24	8,152.44	-784.45	-127.68	-779.56	1.00	-1.00	0.00
8,300.00	2.34	189.24	8,252.31	-789.34	-128.47	-784.42	1.00	-1.00	0.00
8,322.70	2.11	189.24	8,275.00	-790.21	-128.62	-785.28	1.00	-1.00	0.00
Bone Spring									
8,400.00	1.34	189.24	8,352.26	-792.51	-128.99	-787.57	1.00	-1.00	0.00
8,500.00	0.34	189.24	8,452.25	-793.95	-129.23	-789.00	1.00	-1.00	0.00
8,533.93	0.00	0.00	8,486.18	-794.05	-129.24	-789.10	1.00	-1.00	0.00
8,600.00	0.00	0.00	8,552.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
8,682.75	0.00	0.00	8,635.00	-794.05	-129.24	-789.10	0.00	0.00	0.00
Avalon									
8,700.00	0.00	0.00	8,652.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
8,800.00	0.00	0.00	8,752.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
8,900.00	0.00	0.00	8,852.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,952.25	-794.05	-129.24	-789.10	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,100.00	0.00	0.00	9,052.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,200.00	0.00	0.00	9,152.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,300.00	0.00	0.00	9,252.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,352.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,452.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,552.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,622.75	0.00	0.00	9,575.00	-794.05	-129.24	-789.10	0.00	0.00	0.00
1st Bone Spring									
9,700.00	0.00	0.00	9,652.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,800.00	0.00	0.00	9,752.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
9,900.00	0.00	0.00	9,852.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,000.00	0.00	0.00	9,952.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,100.00	0.00	0.00	10,052.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,137.75	0.00	0.00	10,090.00	-794.05	-129.24	-789.10	0.00	0.00	0.00
2nd Bone Spring									
10,200.00	0.00	0.00	10,152.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,300.00	0.00	0.00	10,252.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,400.00	0.00	0.00	10,352.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,500.00	0.00	0.00	10,452.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,600.00	0.00	0.00	10,552.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,700.00	0.00	0.00	10,652.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,747.75	0.00	0.00	10,700.00	-794.05	-129.24	-789.10	0.00	0.00	0.00
3rd Bone Spring Lime									
10,800.00	0.00	0.00	10,752.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,900.00	0.00	0.00	10,852.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
10,954.75	0.00	0.00	10,907.00	-794.05	-129.24	-789.10	0.00	0.00	0.00
7 5/8"									
11,000.00	0.00	0.00	10,952.25	-794.05	-129.24	-789.10	0.00	0.00	0.00
11,054.79	0.00	0.00	11,007.04	-794.05	-129.24	-789.10	0.00	0.00	0.00
11,100.00	4.52	359.09	11,052.20	-792.27	-129.27	-787.32	10.00	10.00	0.00
11,112.85	5.81	359.09	11,065.00	-791.11	-129.29	-786.16	10.00	10.00	0.00
3rd Bone Spring									
11,150.00	9.52	359.09	11,101.81	-786.16	-129.37	-781.21	10.00	10.00	0.00
11,200.00	14.52	359.09	11,150.70	-775.75	-129.53	-770.80	10.00	10.00	0.00
11,250.00	19.52	359.09	11,198.49	-761.12	-129.76	-756.17	10.00	10.00	0.00
11,300.00	24.52	359.09	11,244.83	-742.38	-130.06	-737.44	10.00	10.00	0.00
11,350.00	29.52	359.09	11,289.36	-719.68	-130.42	-714.73	10.00	10.00	0.00
11,400.00	34.52	359.09	11,331.74	-693.18	-130.84	-688.23	10.00	10.00	0.00
11,450.00	39.52	359.09	11,371.65	-663.09	-131.32	-658.14	10.00	10.00	0.00
11,460.92	40.61	359.09	11,380.00	-656.06	-131.43	-651.12	10.00	10.00	0.00
Wolfcamp									
11,500.00	44.52	359.09	11,408.78	-629.63	-131.85	-624.69	10.00	10.00	0.00
11,550.00	49.52	359.09	11,442.86	-593.07	-132.43	-588.13	10.00	10.00	0.00
11,600.00	54.52	359.09	11,473.62	-553.67	-133.06	-548.74	10.00	10.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,650.00	59.52	359.09	11,500.82	-511.75	-133.72	-506.81	10.00	10.00	0.00
11,700.00	64.52	359.09	11,524.27	-467.61	-134.42	-462.68	10.00	10.00	0.00
11,750.00	69.52	359.09	11,543.79	-421.60	-135.15	-416.67	10.00	10.00	0.00
11,800.00	74.52	359.09	11,559.22	-374.06	-135.91	-369.13	10.00	10.00	0.00
11,850.00	79.52	359.09	11,570.44	-325.36	-136.68	-320.44	10.00	10.00	0.00
11,900.00	84.52	359.09	11,577.38	-275.87	-137.46	-270.94	10.00	10.00	0.00
11,954.79	90.00	359.09	11,580.00	-221.16	-138.33	-216.24	10.00	10.00	0.00
12,000.00	90.00	359.09	11,580.00	-175.96	-139.05	-171.05	0.00	0.00	0.00
12,100.00	90.00	359.09	11,580.00	-75.98	-140.64	-71.06	0.00	0.00	0.00
12,200.00	90.00	359.09	11,580.00	24.01	-142.22	28.92	0.00	0.00	0.00
12,300.00	90.00	359.09	11,580.00	124.00	-143.81	128.90	0.00	0.00	0.00
12,400.00	90.00	359.09	11,580.00	223.99	-145.40	228.88	0.00	0.00	0.00
12,500.00	90.00	359.09	11,580.00	323.97	-146.98	328.87	0.00	0.00	0.00
12,600.00	90.00	359.09	11,580.00	423.96	-148.57	428.85	0.00	0.00	0.00
12,700.00	90.00	359.09	11,580.00	523.95	-150.16	528.83	0.00	0.00	0.00
12,800.00	90.00	359.09	11,580.00	623.93	-151.74	628.81	0.00	0.00	0.00
12,900.00	90.00	359.09	11,580.00	723.92	-153.33	728.80	0.00	0.00	0.00
13,000.00	90.00	359.09	11,580.00	823.91	-154.92	828.78	0.00	0.00	0.00
13,100.00	90.00	359.09	11,580.00	923.90	-156.50	928.76	0.00	0.00	0.00
13,200.00	90.00	359.09	11,580.00	1,023.88	-158.09	1,028.74	0.00	0.00	0.00
13,300.00	90.00	359.09	11,580.00	1,123.87	-159.68	1,128.73	0.00	0.00	0.00
13,400.00	90.00	359.09	11,580.00	1,223.86	-161.26	1,228.71	0.00	0.00	0.00
13,500.00	90.00	359.09	11,580.00	1,323.85	-162.85	1,328.69	0.00	0.00	0.00
13,600.00	90.00	359.09	11,580.00	1,423.83	-164.44	1,428.67	0.00	0.00	0.00
13,700.00	90.00	359.09	11,580.00	1,523.82	-166.02	1,528.66	0.00	0.00	0.00
13,800.00	90.00	359.09	11,580.00	1,623.81	-167.61	1,628.64	0.00	0.00	0.00
13,900.00	90.00	359.09	11,580.00	1,723.80	-169.20	1,728.62	0.00	0.00	0.00
14,000.00	90.00	359.09	11,580.00	1,823.78	-170.78	1,828.60	0.00	0.00	0.00
14,100.00	90.00	359.09	11,580.00	1,923.77	-172.37	1,928.58	0.00	0.00	0.00
14,200.00	90.00	359.09	11,580.00	2,023.76	-173.96	2,028.57	0.00	0.00	0.00
14,300.00	90.00	359.09	11,580.00	2,123.75	-175.54	2,128.55	0.00	0.00	0.00
14,400.00	90.00	359.09	11,580.00	2,223.73	-177.13	2,228.53	0.00	0.00	0.00
14,500.00	90.00	359.09	11,580.00	2,323.72	-178.72	2,328.51	0.00	0.00	0.00
14,600.00	90.00	359.09	11,580.00	2,423.71	-180.30	2,428.50	0.00	0.00	0.00
14,700.00	90.00	359.09	11,580.00	2,523.70	-181.89	2,528.48	0.00	0.00	0.00
14,800.00	90.00	359.09	11,580.00	2,623.68	-183.47	2,628.46	0.00	0.00	0.00
14,900.00	90.00	359.09	11,580.00	2,723.67	-185.06	2,728.44	0.00	0.00	0.00
15,000.00	90.00	359.09	11,580.00	2,823.66	-186.65	2,828.43	0.00	0.00	0.00
15,100.00	90.00	359.09	11,580.00	2,923.65	-188.23	2,928.41	0.00	0.00	0.00
15,200.00	90.00	359.09	11,580.00	3,023.63	-189.82	3,028.39	0.00	0.00	0.00
15,300.00	90.00	359.09	11,580.00	3,123.62	-191.41	3,128.37	0.00	0.00	0.00
15,400.00	90.00	359.09	11,580.00	3,223.61	-192.99	3,228.36	0.00	0.00	0.00
15,500.00	90.00	359.09	11,580.00	3,323.60	-194.58	3,328.34	0.00	0.00	0.00
15,600.00	90.00	359.09	11,580.00	3,423.58	-196.17	3,428.32	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,700.00	90.00	359.09	11,580.00	3,523.57	-197.75	3,528.30	0.00	0.00	0.00
15,800.00	90.00	359.09	11,580.00	3,623.56	-199.34	3,628.29	0.00	0.00	0.00
15,900.00	90.00	359.09	11,580.00	3,723.54	-200.93	3,728.27	0.00	0.00	0.00
16,000.00	90.00	359.09	11,580.00	3,823.53	-202.51	3,828.25	0.00	0.00	0.00
16,100.00	90.00	359.09	11,580.00	3,923.52	-204.10	3,928.23	0.00	0.00	0.00
16,200.00	90.00	359.09	11,580.00	4,023.51	-205.69	4,028.22	0.00	0.00	0.00
16,300.00	90.00	359.09	11,580.00	4,123.49	-207.27	4,128.20	0.00	0.00	0.00
16,400.00	90.00	359.09	11,580.00	4,223.48	-208.86	4,228.18	0.00	0.00	0.00
16,500.00	90.00	359.09	11,580.00	4,323.47	-210.45	4,328.16	0.00	0.00	0.00
16,600.00	90.00	359.09	11,580.00	4,423.46	-212.03	4,428.15	0.00	0.00	0.00
16,700.00	90.00	359.09	11,580.00	4,523.44	-213.62	4,528.13	0.00	0.00	0.00
16,800.00	90.00	359.09	11,580.00	4,623.43	-215.21	4,628.11	0.00	0.00	0.00
16,900.00	90.00	359.09	11,580.00	4,723.42	-216.79	4,728.09	0.00	0.00	0.00
17,000.00	90.00	359.09	11,580.00	4,823.41	-218.38	4,828.07	0.00	0.00	0.00
17,100.00	90.00	359.09	11,580.00	4,923.39	-219.97	4,928.06	0.00	0.00	0.00
17,200.00	90.00	359.09	11,580.00	5,023.38	-221.55	5,028.04	0.00	0.00	0.00
17,300.00	90.00	359.09	11,580.00	5,123.37	-223.14	5,128.02	0.00	0.00	0.00
17,400.00	90.00	359.09	11,580.00	5,223.36	-224.73	5,228.00	0.00	0.00	0.00
17,500.00	90.00	359.09	11,580.00	5,323.34	-226.31	5,327.99	0.00	0.00	0.00
17,600.00	90.00	359.09	11,580.00	5,423.33	-227.90	5,427.97	0.00	0.00	0.00
17,700.00	90.00	359.09	11,580.00	5,523.32	-229.49	5,527.95	0.00	0.00	0.00
17,800.00	90.00	359.09	11,580.00	5,623.31	-231.07	5,627.93	0.00	0.00	0.00
17,900.00	90.00	359.09	11,580.00	5,723.29	-232.66	5,727.92	0.00	0.00	0.00
18,000.00	90.00	359.09	11,580.00	5,823.28	-234.25	5,827.90	0.00	0.00	0.00
18,100.00	90.00	359.09	11,580.00	5,923.27	-235.83	5,927.88	0.00	0.00	0.00
18,200.00	90.00	359.09	11,580.00	6,023.26	-237.42	6,027.86	0.00	0.00	0.00
18,300.00	90.00	359.09	11,580.00	6,123.24	-239.01	6,127.85	0.00	0.00	0.00
18,400.00	90.00	359.09	11,580.00	6,223.23	-240.59	6,227.83	0.00	0.00	0.00
18,500.00	90.00	359.09	11,580.00	6,323.22	-242.18	6,327.81	0.00	0.00	0.00
18,600.00	90.00	359.09	11,580.00	6,423.20	-243.77	6,427.79	0.00	0.00	0.00
18,700.00	90.00	359.09	11,580.00	6,523.19	-245.35	6,527.78	0.00	0.00	0.00
18,800.00	90.00	359.09	11,580.00	6,623.18	-246.94	6,627.76	0.00	0.00	0.00
18,900.00	90.00	359.09	11,580.00	6,723.17	-248.53	6,727.74	0.00	0.00	0.00
19,000.00	90.00	359.09	11,580.00	6,823.15	-250.11	6,827.72	0.00	0.00	0.00
19,100.00	90.00	359.09	11,580.00	6,923.14	-251.70	6,927.71	0.00	0.00	0.00
19,200.00	90.00	359.09	11,580.00	7,023.13	-253.29	7,027.69	0.00	0.00	0.00
19,300.00	90.00	359.09	11,580.00	7,123.12	-254.87	7,127.67	0.00	0.00	0.00
19,400.00	90.00	359.09	11,580.00	7,223.10	-256.46	7,227.65	0.00	0.00	0.00
19,500.00	90.00	359.09	11,580.00	7,323.09	-258.05	7,327.64	0.00	0.00	0.00
19,600.00	90.00	359.09	11,580.00	7,423.08	-259.63	7,427.62	0.00	0.00	0.00
19,700.00	90.00	359.09	11,580.00	7,523.07	-261.22	7,527.60	0.00	0.00	0.00
19,735.42	90.00	359.09	11,580.00	7,558.48	-261.78	7,563.01	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 425H - Slot F
Project:	Permian NM E'83	**TVD Reference:**	est.GL+KB @ 3514.00usft (planning)
Site:	BLUN Pad 7	**MD Reference:**	est.GL+KB @ 3514.00usft (planning)
Well:	Bell Lake Unit North 425H	**North Reference:**	Grid
Wellbore:	#425H OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	EDM 5k-14

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,210.00	1,210.00	10 3/4"	10-3/4	13-1/2
10,954.75	10,907.00	7 5/8"	7-5/8	9-7/8

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,150.00	1,150.00	Rustler		0.00	
1,450.01	1,450.00	Salado		0.00	
1,750.73	1,750.00	Top of Salt		0.00	
4,561.62	4,540.00	Base of Salt		0.00	
4,848.76	4,825.00	Lamar		0.00	
5,176.20	5,150.00	Bell Canyon		0.00	
6,410.40	6,375.00	Cherry Canyon		0.00	
8,047.17	8,000.00	Brushy Canyon		0.00	
8,322.70	8,275.00	Bone Spring		0.00	
8,682.75	8,635.00	Avalon		0.00	
9,622.75	9,575.00	1st Bone Spring		0.00	
10,137.75	10,090.00	2nd Bone Spring		0.00	
10,747.75	10,700.00	3rd Bone Spring Lime		0.00	
11,112.85	11,065.00	3rd Bone Spring		0.00	
11,460.92	11,380.00	Wolfcamp		0.00	

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

SUPO Data Report
09/14/2020

APD ID: 10400054020
Submission Date: 02/06/2020
Operator Name: KAISER FRANCIS OIL COMPANY
Well Name: BELL LAKE UNIT NORTH
Well Number: 425H
Well Type: OIL WELL
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_425H_Existing_Roads_20200205153602.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_425H_Access_Road_20200205153630.pdf

New road type: RESOURCE

Length: 1128 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:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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_425H_1_Mile_Data_20200205153726.pdf

BLUN_425H_1_Mile_Map_20200205153727.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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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: STATE

Water source volume (barrels): 20000

Source volume (acre-feet): 2.57786193

Source volume (gal): 840000

Water source type: OTHER

Describe type: FRESH WATER

Water source use type: STIMULATION

OTHER

SURFACE CASING

Describe use type: ROAD/PAD CONSTRUCTION ANI

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 is a mixture of Federal, State and County.

Water source volume (barrels): 250000

Source volume (acre-feet): 32.223274

Source volume (gal): 10500000

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Water source and transportation map:

BLUN_Pad_7_Wtr_Source_Map_20200205153811.pdf

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

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

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

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

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

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

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

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency : One Time Only

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Safe containmant attachment:

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

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 : One Time Only

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

Safe containmant attachment:

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

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 : One Time Only

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

Safe containmant attachment:

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

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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_425H_Well_Site_Layout_20200205153903.pdf

BLUN_425H_Pad_7_Drilling_Layout_20200827141608.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: 7

Recontouring attachment:

BLUN_Pad_7_IR_Plat_20200205154056.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.

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Well pad proposed disturbance (acres): 5.94
Road proposed disturbance (acres): 0.78
Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0

Total proposed disturbance: 6.720000000000001

Well pad interim reclamation (acres): 0.89
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0

Total interim reclamation: 0.89

Well pad long term disturbance (acres): 5.05
Road long term disturbance (acres): 0.78
Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0

Total long term disturbance: 5.83

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary	
Seed Type	**Pounds/Acre**

Total 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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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:**

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Section 12 - Other Information

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW Applications

SUPO Additional Information:

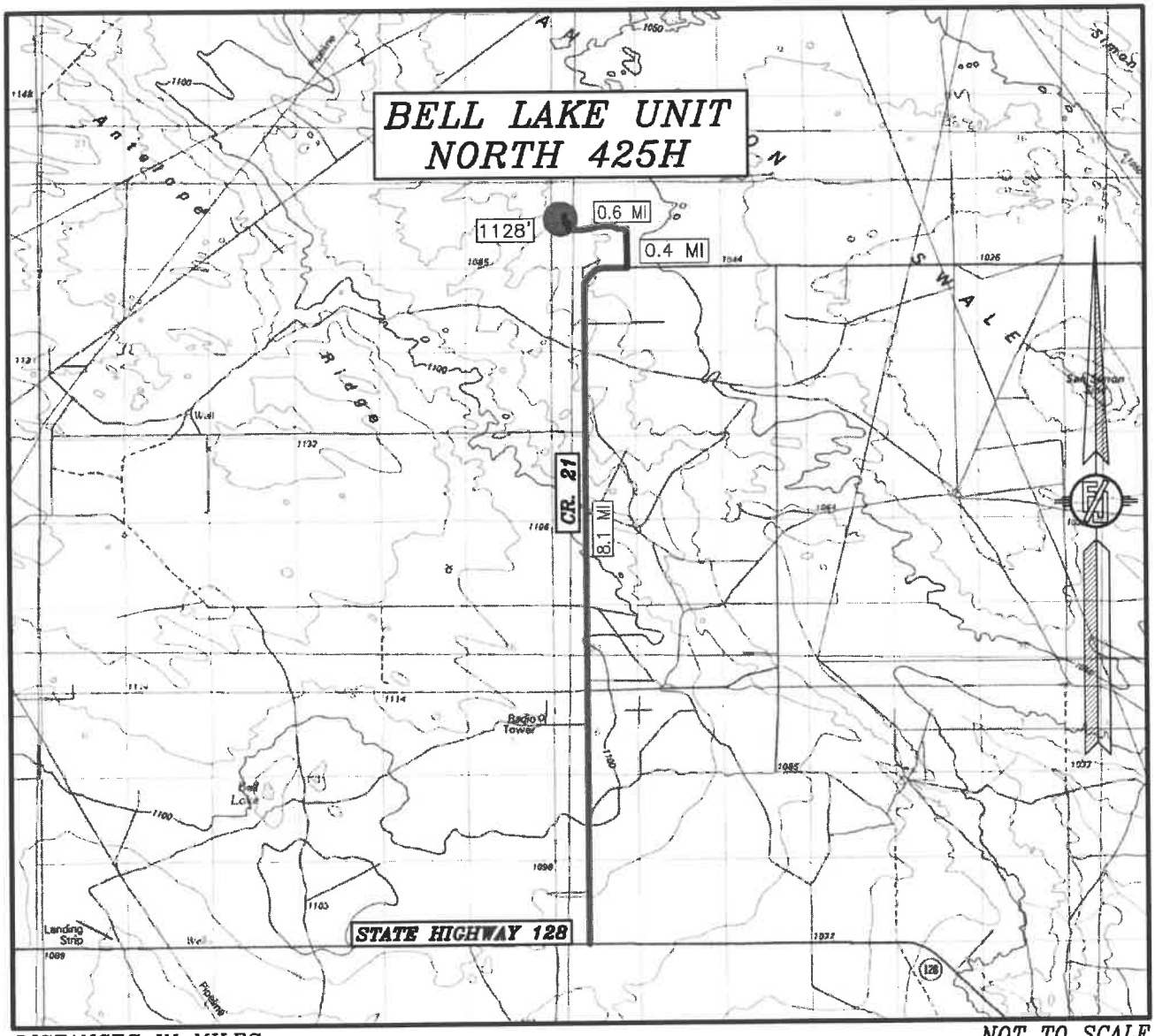
Use a previously conducted onsite? Y

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

Other SUPO Attachment

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR. 21 (DELAWARE BASIN) GO NORTH ON CR. 21 FOR APPROX. 8.1 MILES TO 90° BEND EAST, CONTINUE EAST TO SECOND CALICHE LEASE ROAD (KAISER-FRANCIS SIGNS) GO NORTH ON CALICHE LEASE ROAD APPROX. 0.4 OF A MILE, GO WEST 0.6 OF A MILE TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY NORTH 422', THEN WEST 233', THEN NORTH 473' (TOTAL OF 1128') TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT NORTH 425H
LOCATED 2380 FT. FROM THE NORTH LINE
AND 550 FT. FROM THE WEST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

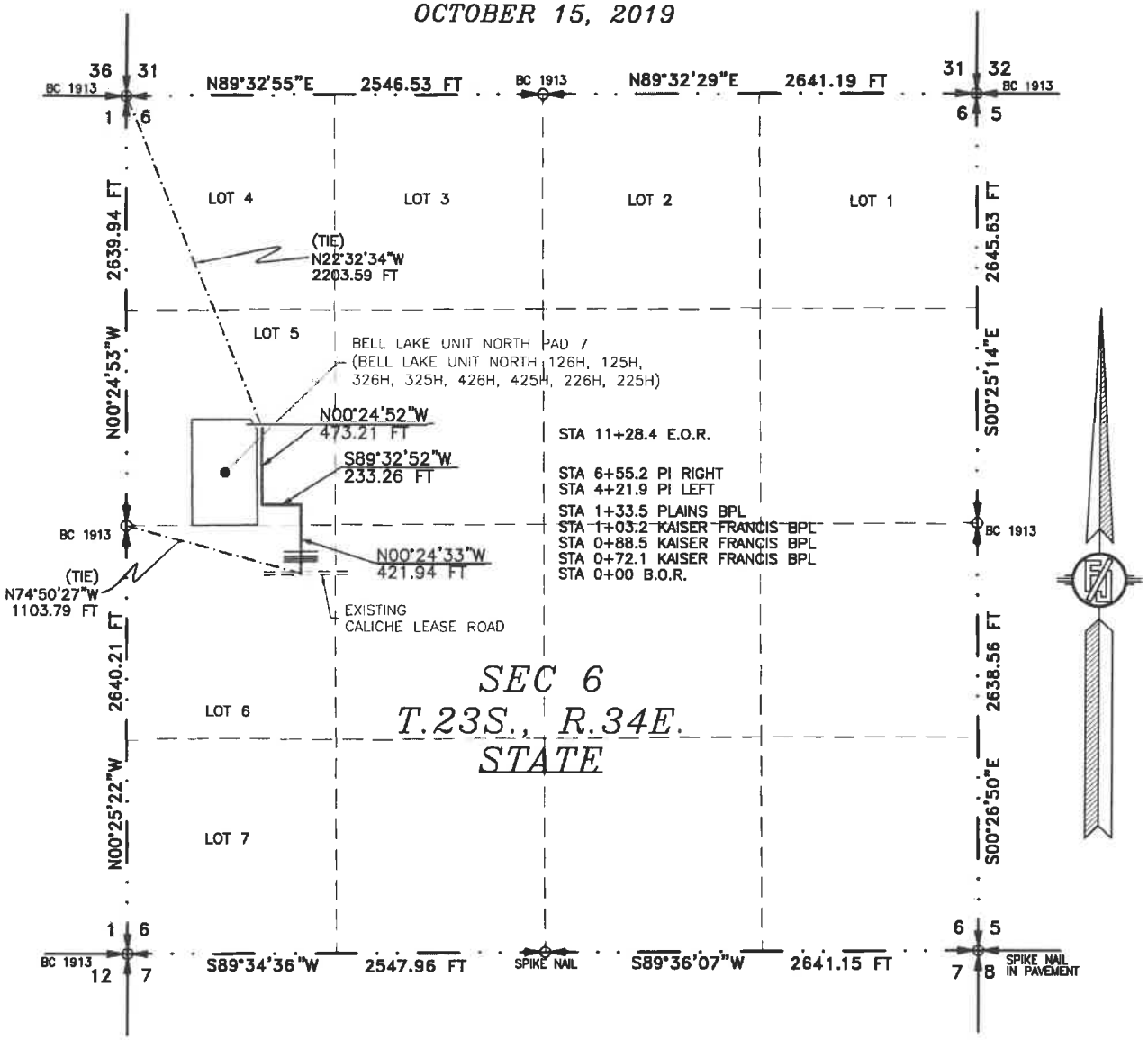
SURVEY NO. 7084A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD TO THE BELL LAKE UNIT NORTH PAD 7
(BELL LAKE UNIT NORTH 126H, 125H, 326H, 325H, 426H, 425H, 226H, 225H)

KAISER-FRANCIS OIL CO.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
OCTOBER 15, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION

1000 0 1000

Scale: 1" = 1000'

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF NOVEMBER 2019

FILIMON F. JARAMILLO NM PS 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SHEET: 1-2

SURVEY NO. 7084A

Kaiser Francis Oil Co.
10K Annular Variance Request

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:
    i. 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

Kaiser Francis Oil Co.
10K Annular Variance Request

d. Regroup and identify forward plan

** 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.

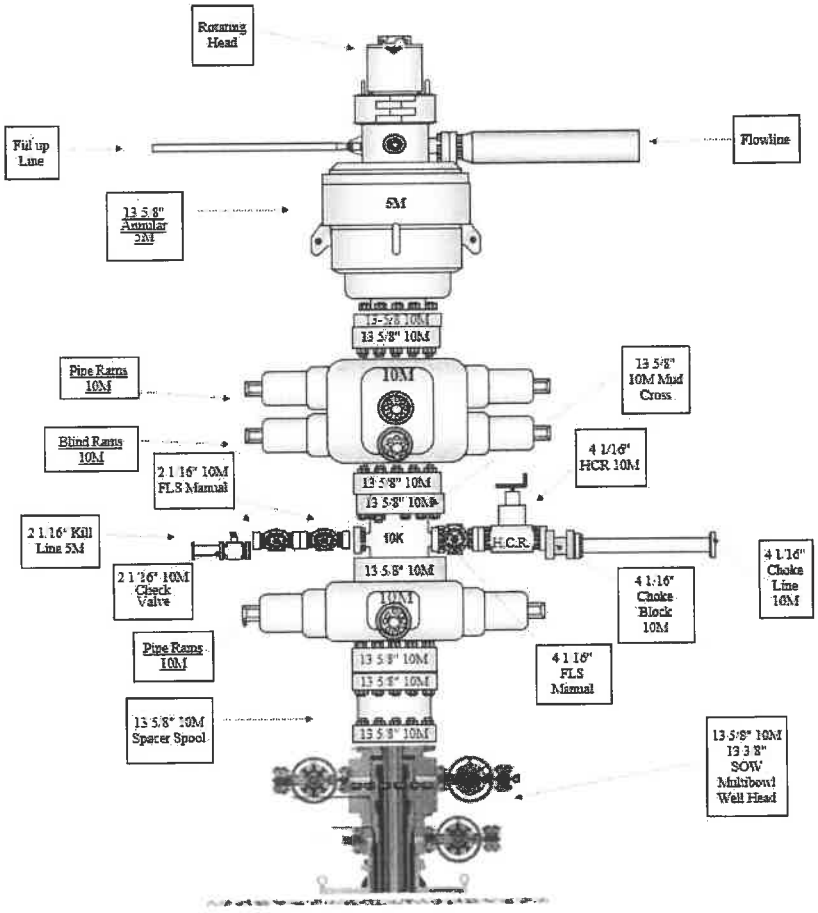
Kaiser Francis Oil Co.
10K Annular Variance Request

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

10M BOP with 5M Annular
Kaiser Francis Oil Company

Hole Sections Utilized
***12 1/4" Hole below Surface Casing**
***8 3/4"-8 1/2" Hole below Intermediate casing**



Kaiser Francis Oil Co.
10K Annular Variance Request

B. Component and Preventer Compatibility Table

Component	OD	Preventer	RWP
Drill Pipe	4 1/2"	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Heavyweight Drill Pipe	4 1/2"	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Drill Collars & MWD Tools	6 1/4"-4 ¾"	Annular Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	5M 10M 10M
Mud Motor	8"-4 3/4"	Annular Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	5M 10M 10M
Production Casing	5 1/2"	Upper VBR: 3.5 – 5.5 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

Kaiser Francis Oil Co.
10K Annular Variance Request

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

ACCESS ROAD PLAT

ACCESS ROAD TO THE BELL LAKE UNIT NORTH PAD 7
(BELL LAKE UNIT NORTH 126H, 125H, 326H, 325H, 426H, 425H, 226H, 225H)

KAISER-FRANCIS OIL CO.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
OCTOBER 15, 2019

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN LOT 6 OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N74°50'27"W, A DISTANCE OF 1103.79 FEET;
THENCE N00°24'33"W A DISTANCE OF 421.94 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°32'52"W A DISTANCE OF 233.26 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°24'52"W A DISTANCE OF 473.21 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N22°32'34"W, A DISTANCE OF 2203.59 FEET;

SAID STRIP OF LAND BEING 1128.41 FEET OR 68.39 RODS IN LENGTH, CONTAINING 0.777 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 6	295.93 L.F.	17.94 RODS	0.204 ACRES
LOT 5	832.48 L.F.	50.45 RODS	0.573 ACRES

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 13 DAY OF NOVEMBER 2019

FILIMON F. JARAMILLO NEW MEXICO 12797 PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SHEET: 2-2

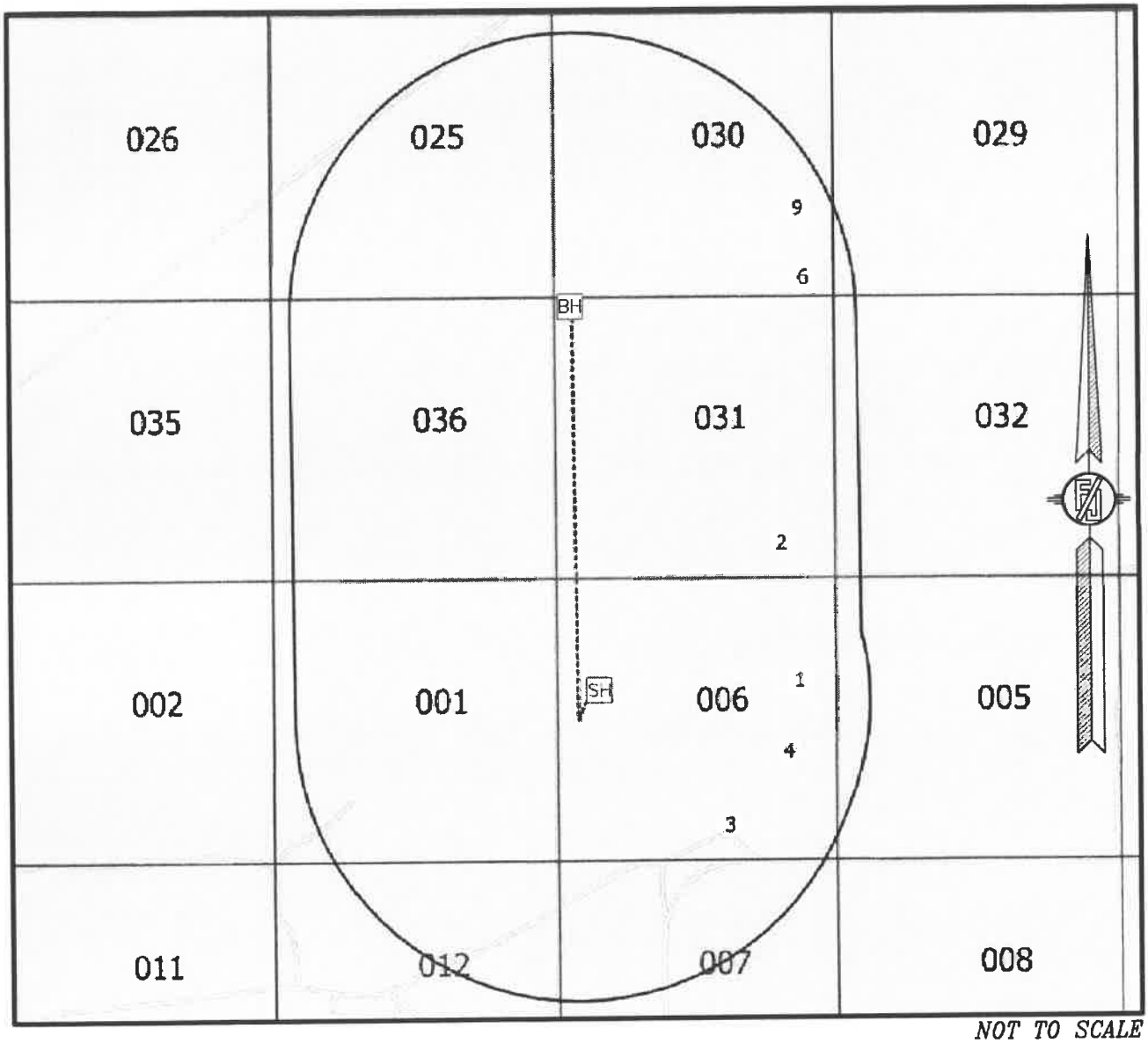
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234 CARLSBAD, NEW MEXICO

SURVEY NO. 7084A

Kaiser-Francis Oil Company
Bell Lake Unit North 425H
One Mile Radius Data

ID	API	wellname	well type	ulstr	ogrid_name	status	dir status	elevation	MD	TVD	spud year	latitude	longitude	Pool ID
1	30-025-33077	NORTH BELL LAKE FEDERAL #003	G	H-06-23S-34E	KAISER-FRANCIS OIL CO	A	V	3456	17540	17540	1995	32.3356552	-103.5028305	[71840]
2	30-025-35592	BELL LAKE UNIT #022	G	P-31-22S-34E	KAISER-FRANCIS OIL CO	A	V	341	13430	13430	2001	32.3427773	-103.503891	[96665]
3	30-025-08483	BELL LAKE UNIT #006	G	O-06-23S-34E	KAISER-FRANCIS OIL CO	P	V	3485	16506	16506	1959	32.3282585	-103.507103	[71840]
4	30-025-43033	BELL LAKE UNIT NORTH #230H	O	I-06-23S-34E	KAISER-FRANCIS OIL CO	A	H	3456	18370	10226	2017	32.332037	-103.503544	[5150] B
6	30-025-45166	GAUCHO UNIT #026H	O	P-30-22S-34E	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	9999	32.3564505	-103.5026562	[97922]
6	30-025-45169	GAUCHO UNIT #033H	O	P-30-22S-34E	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	9999	32.3564504	-103.5024619	[97922]
6	30-025-45167	GAUCHO UNIT #028H	O	P-30-22S-34E	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	9999	32.3564504	-103.5027534	[97922]
6	30-025-45168	GAUCHO UNIT #031H	O	P-30-22S-34E	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	9999	32.3564505	-103.5025591	[97922]
9	30-025-34149	GAUCHO UNIT #005	G	I-30-22S-34E	DEVON ENERGY PRODUCTION COMPANY, LP	P	V	3438	13450	13450	1998	32.3600006	-103.5027847	[96665]

1-MILE MAP



NOT TO SCALE

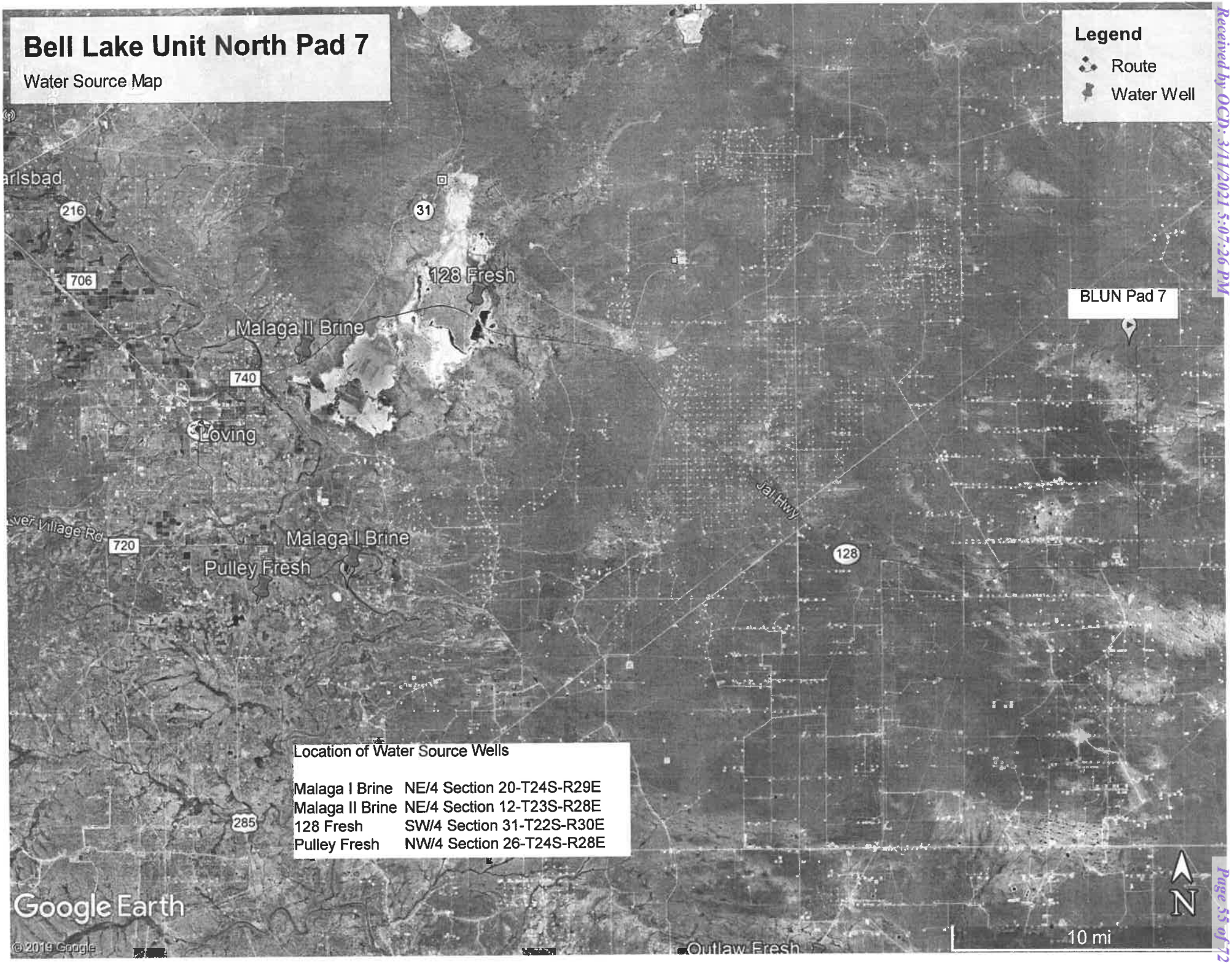
SH SURFACE LOCATION
BH BOTTOM OF HOLE
XX WELLS WITHIN 1 MILE
WELL PATH
1-MILE BOUNDARY

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT NORTH 425H
LOCATED 2380 FT. FROM THE NORTH LINE
AND 550 FT. FROM THE WEST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

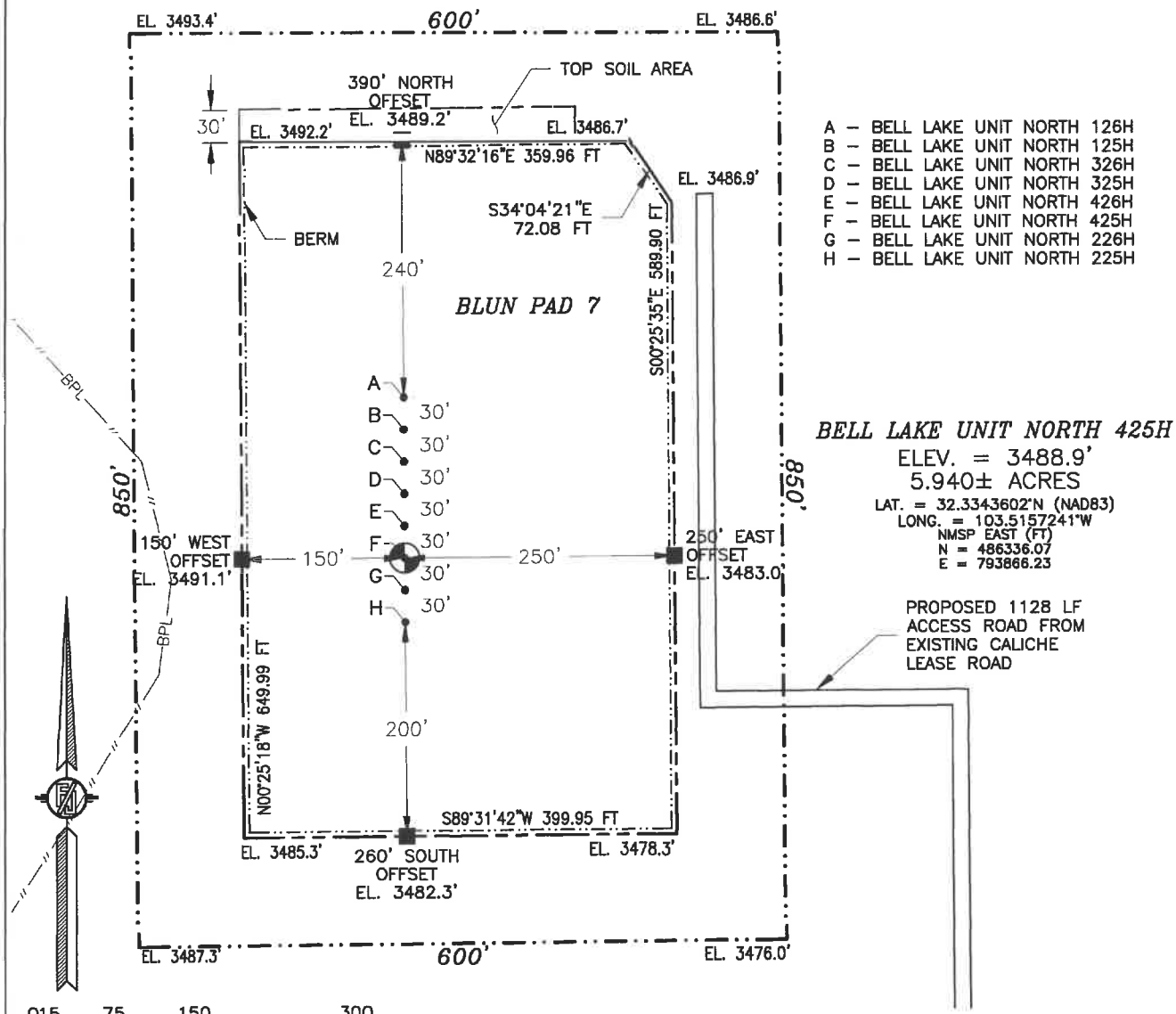
SURVEY NO. 7084A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



A – BELL LAKE UNIT NORTH 126H
B – BELL LAKE UNIT NORTH 125H
C – BELL LAKE UNIT NORTH 326H
D – BELL LAKE UNIT NORTH 325H
E – BELL LAKE UNIT NORTH 426H
F – BELL LAKE UNIT NORTH 425H
G – BELL LAKE UNIT NORTH 226H
H – BELL LAKE UNIT NORTH 225H

BELL LAKE UNIT NORTH 425H
ELEV. = 3488.9'
5.940± ACRES
LAT. = 32.3343602°N (NAD83)
LONG. = 103.5157241°W
NMSP EAST (FT)
N = 486336.07
E = 793866.23

PROPOSED 1128 LF ACCESS ROAD FROM EXISTING CALICHE LEASE ROAD

015 75 150 300
SCALE 1" = 150'

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR. 21 (DELAWARE BASIN) GO NORTH ON CR. 21 FOR APPROX. 8.1 MILES TO 90° BEND EAST, CONTINUE EAST TO SECOND CALICHE LEASE ROAD (KAISER–FRANCIS SIGNS) GO NORTH ON CALICHE LEASE ROAD APPROX. 0.4 OF A MILE, GO WEST 0.6 OF A MILE TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY NORTH 422', THEN WEST 233', THEN NORTH 473' (TOTAL OF 1128') TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THIS SURVEY WAS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

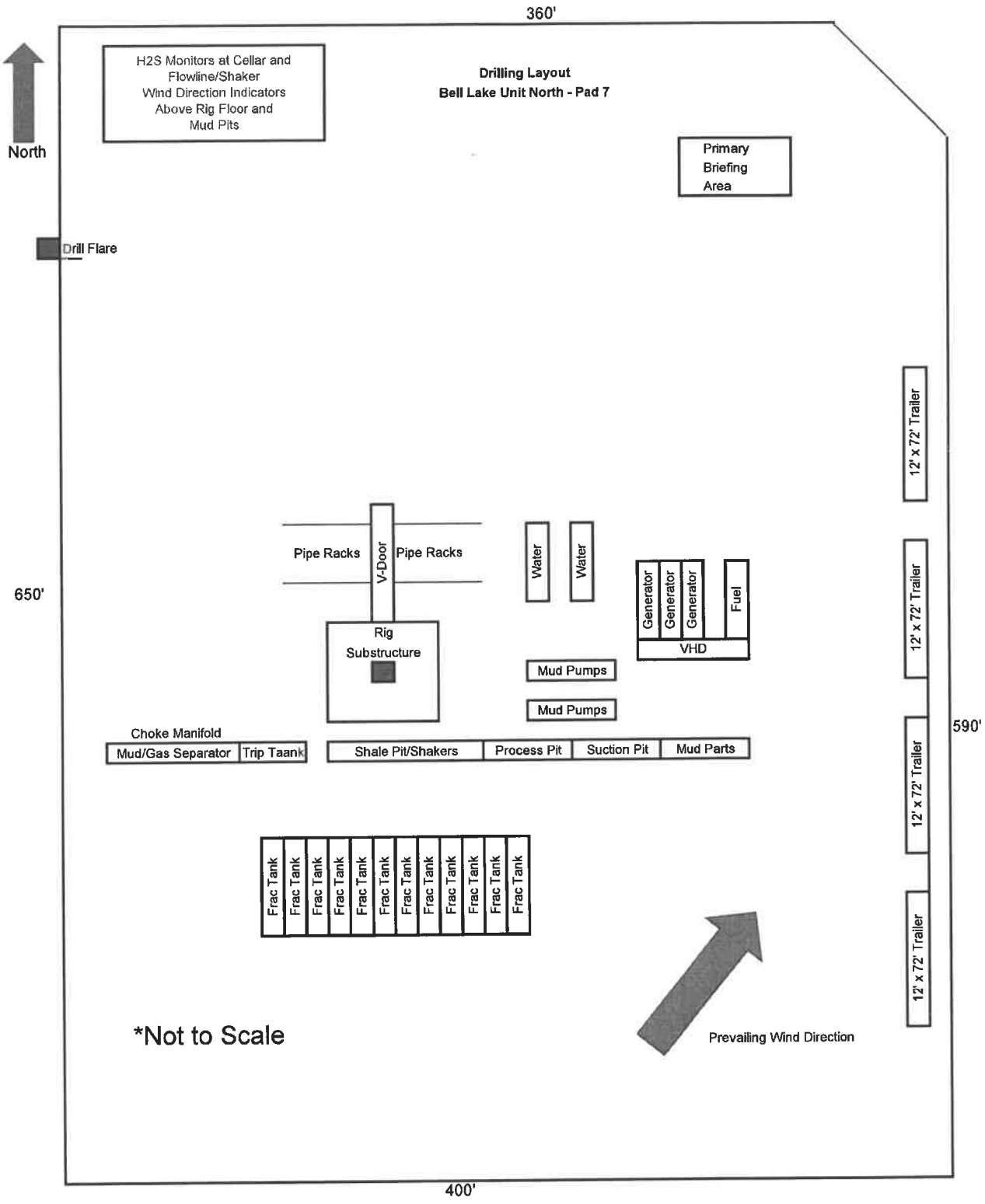
FILIMON F. JARAMILLO 12797

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

KAISER–FRANCIS OIL CO.
BELL LAKE UNIT NORTH 425H
LOCATED 2380 FT. FROM THE NORTH LINE AND 550 FT. FROM THE WEST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

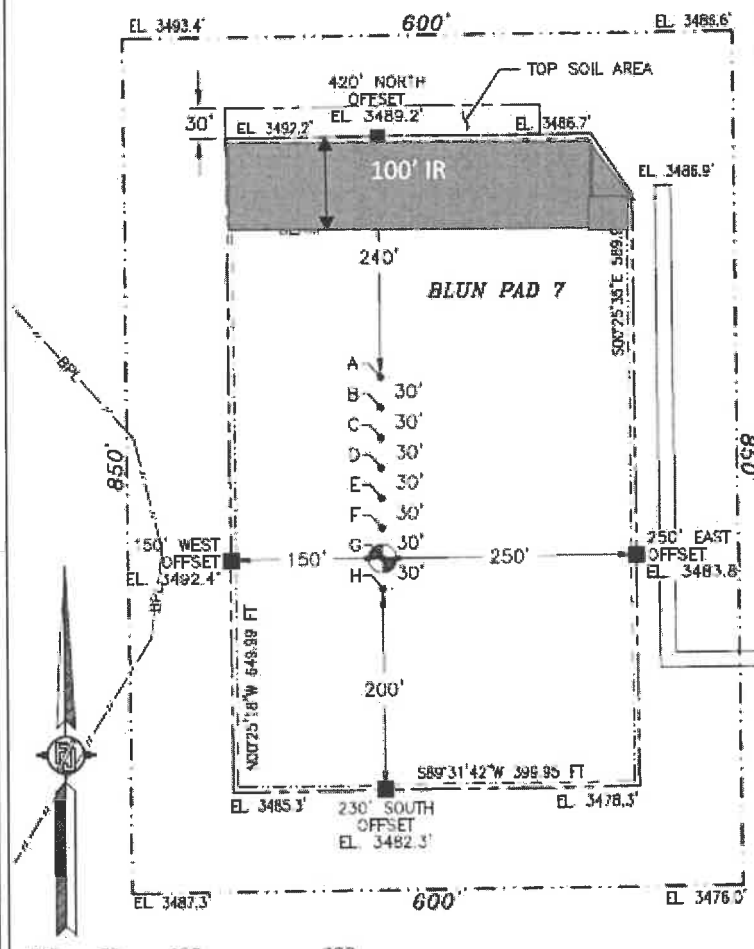
SURVEY NO. 7084A


360'
H2S Monitors at Cellar and Flowline/Shaker Wind Direction Indicators Above Rig Floor and Mud Pits
Drilling Layout
Bell Lake Unit North - Pad 7
North
Primary Briefing Area
Drill Flare
12' x 72' Trailer
12' x 72' Trailer
12' x 72' Trailer
12' x 72' Trailer
650'
590'
Pipe Racks
V-Door
Pipe Racks
Water
Water
Generator
Generator
Generator
Fuel
VHD
Rig Substructure
Mud Pumps
Mud Pumps
Choke Manifold
Mud/Gas Separator
Trip Taank
Shale Pit/Shakers
Process Pit
Suction Pit
Mud Parts
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
Frac Tank
*Not to Scale
Prevailing Wind Direction
400'

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE ELEVATION VALUES ARE NAVD88.

Interim Reclamation
~ 0.89 acres



A – BELL LAKE UNIT NORTH 126H
B – BELL LAKE UNIT NORTH 125H
C – BELL LAKE UNIT NORTH 326H
D – BELL LAKE UNIT NORTH 325H
E – BELL LAKE UNIT NORTH 426H
F – BELL LAKE UNIT NORTH 425H
G – BELL LAKE UNIT NORTH 226H
H – BELL LAKE UNIT NORTH 225H

BELL LAKE UNIT NORTH 226H
ELEV. = 3489.5'
5.940± ACRES
LAT. = 32.3547776°N (NAD83)
LONG. = 103.5157239°W
NMSP EAST (FT)
N = 486306.00
E = 793866.51

PROPOSED 1128 LF ACCESS ROAD FROM EXISTING CALICHE LEASE ROAD

0 15 75 150 300
SCALE 1" = 150'

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR. 21 (DELAWARE BASIN) GO NORTH ON CR. 21 FOR APPROX. 8.1 MILES TO 90° BEND EAST. CONTINUE EAST TO SECOND CALICHE LEASE ROAD (KAISER-FRANCIS SIGNS) GO NORTH ON CALICHE LEASE ROAD APPROX. 0.4 OF A MILE, GO WEST 0.8 OF A MILE TO SECTION ROAD SURVEY, FOLLOW ROAD SURVEY NORTH 423' THEN WEST 230', THEN NORTH 473' (TOTAL OF 1128') TO THE NORTH-EAST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO PLS. 12797 DATE

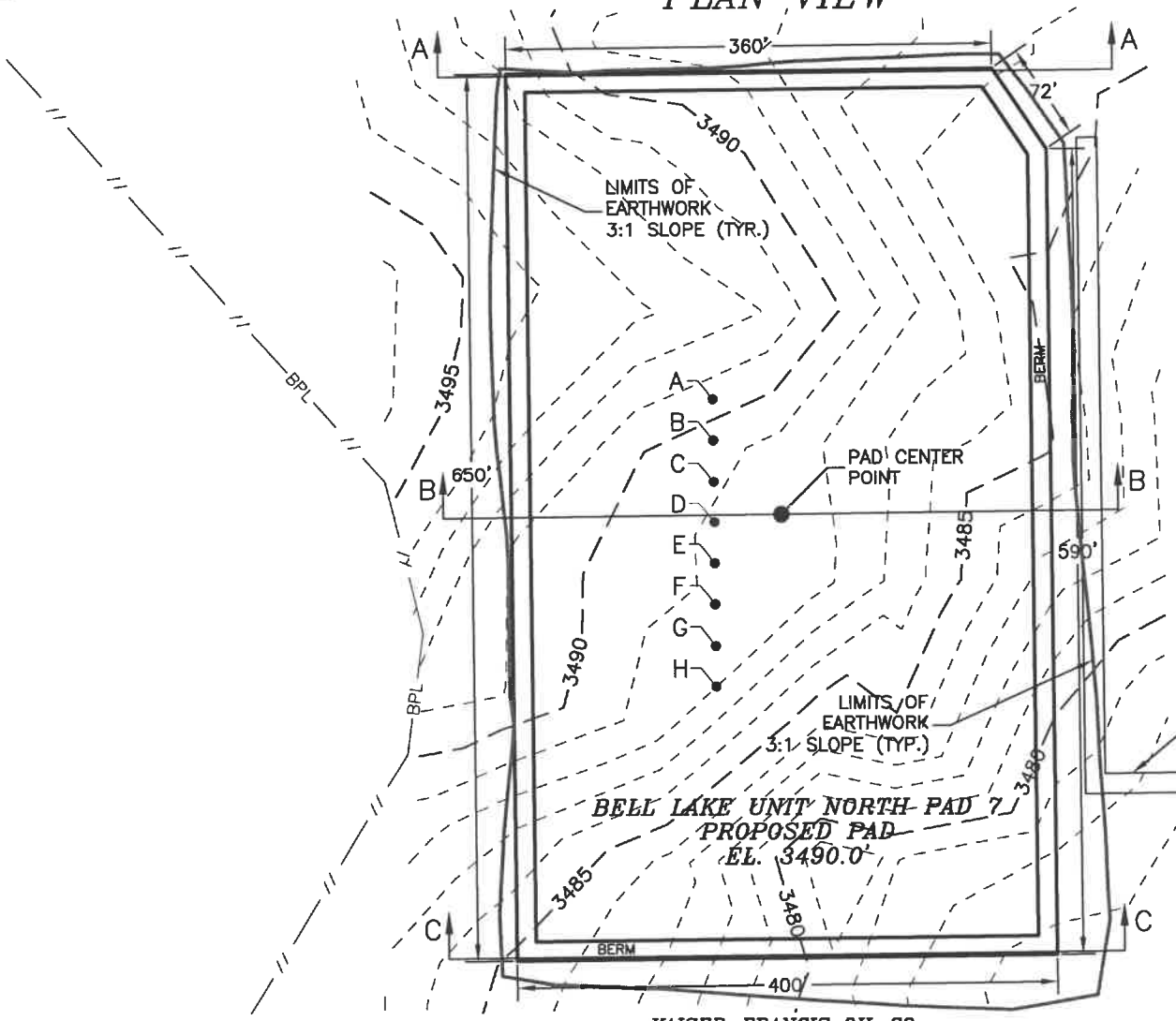
KAISER–FRANCIS OIL CO.
BELL LAKE UNIT NORTH 226H
LOCATED 2410 FT. FROM THE NORTH LINE AND 550 FT. FROM THE WEST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

SURVEY NO. 7081A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



A – BELL LAKE UNIT NORTH 126H
B – BELL LAKE UNIT NORTH 125H
C – BELL LAKE UNIT NORTH 326H
D – BELL LAKE UNIT NORTH 325H
E – BELL LAKE UNIT NORTH 426H
F – BELL LAKE UNIT NORTH 425H
G – BELL LAKE UNIT NORTH 226H
H – BELL LAKE UNIT NORTH 225H

PROPOSED 1128 LF ACCESS ROAD FROM EXISTING CALICHE LEASE ROAD

012 60 120 240
SCALE 1" = 120'

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO PLS. 12797

KAISER-FRANCIS OIL CO.
GRADING PLAN AND CROSS SECTIONS
FOR BELL LAKE UNIT NORTH 226H
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

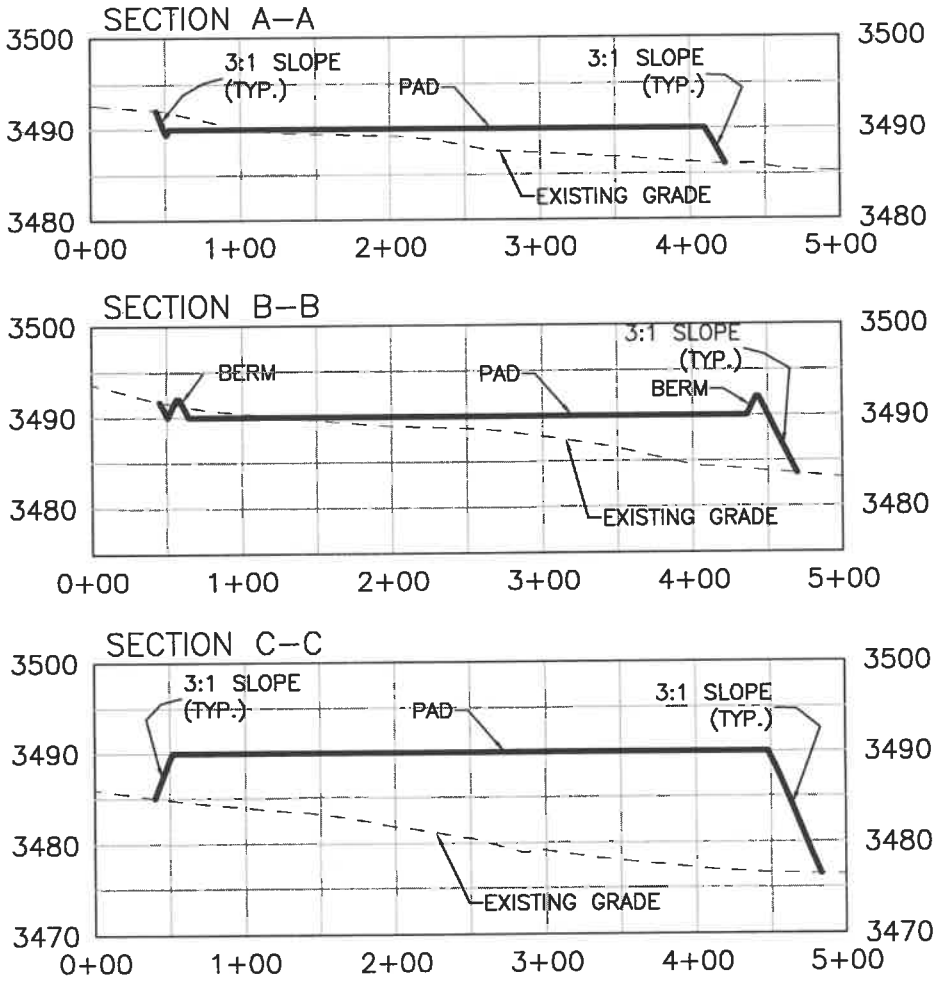
CUT	FILL	NET
3879 CU. YD	39134 CU. YD	35255 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 *CARLSBAD, NEW MEXICO*

SHEET 1-2
SURVEY NO. 7081A

CROSS SECTIONS



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO PLS. 12797

KAISER–FRANCIS OIL CO.
GRADING PLAN AND CROSS SECTIONS
FOR BELL LAKE UNIT NORTH 226H
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 15, 2019

012 60 120 240
SCALE 1" = 120' – 1" = 20' VER

CUT	FILL	NET
3879 CU. YD	39134 CU. YD	35255 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 *CARLSBAD, NEW MEXICO*

SHEET 2–2
SURVEY NO. 7081A

AFMSS

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

PWD Data Report

09/14/2020

APD ID: 10400054020 **Submission Date:** 02/06/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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?

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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):

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

09/14/2020

APD ID: 10400054020

Submission Date: 02/06/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 425H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: WYB000055

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025- 30-025-48555	98265	Ojo Chiso; Wolfcamp, Southwest

[4] Property Code	[5] Property Name	[6] Well Number
316707	BELL LAKE UNIT NORTH	425H

[7] OGRID No.	[8] Operator Name	[9] Elevation
12361	KAISER-FRANCIS OIL CO.	3488.9

[10] Surface Location

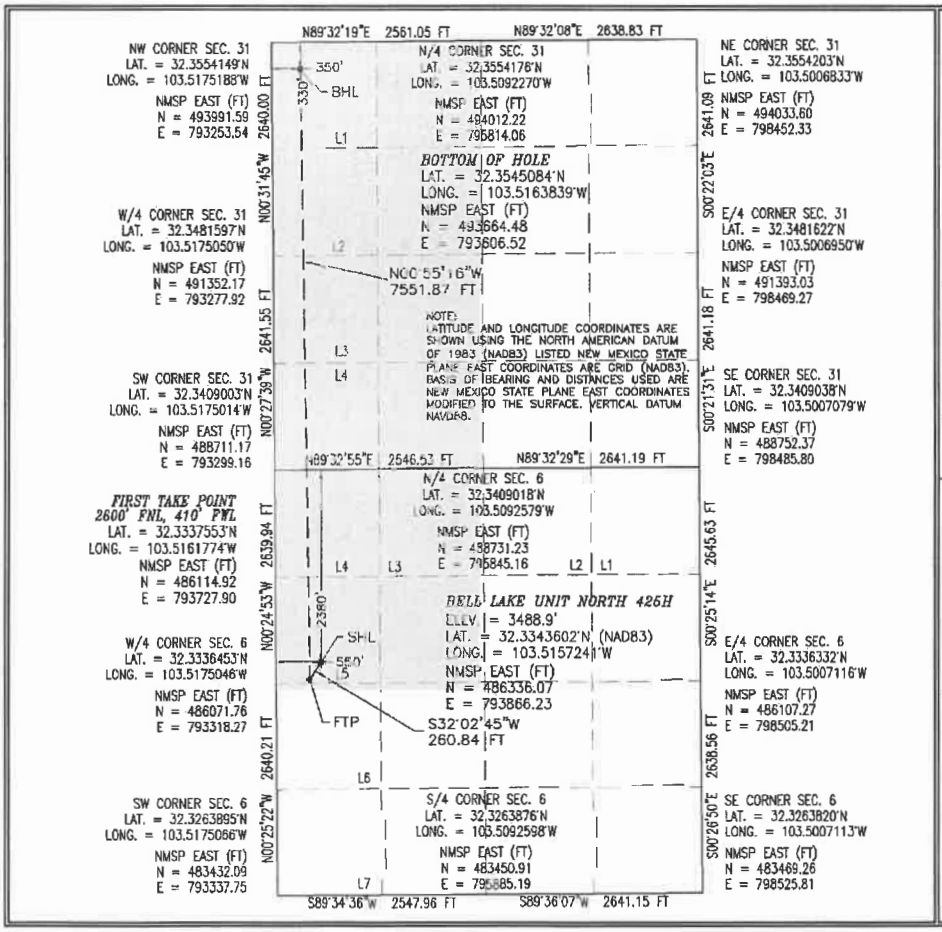
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	6	23 S	34 E		2380	NORTH	550	WEST	LEA

[11] 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
1	31	22 S	34 E		330	NORTH	350	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480			R-14602

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.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Melanie Wilson 02/05/2020
Signature Date

Melanie Wilson
Printed Name

mjp1692@gmail.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

OCTOBER 15, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: ELIMON F. JARAMILLO, PLS 12797

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

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

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: **01/26/2020**

☒ Original
☐ Amended - Reason for Amendment:

Operator & OGRID No.: Kaiser-Francis Oil Company, 12361

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	Footages	Expected MCF/D	Flared or Vented	Comments
Bell Lake Unit North 225H		6-23S-34E	2440' FNL/550' FWL	2000	0	
Bell Lake Unit North 226H		6-23S-34E	2410' FNL/550' FWL	2000	0	
Bell Lake Unit North 325H		6-23S-34E		2000	0	
Bell Lake Unit North 326H		6-23S-34E		2000	0	
Bell Lake Unit North 425H	30-025-48555	6-23S-34E	2380' FNL/ 550' FWL	2000	0	
Bell Lake Unit North 426H		6-23S-34E	2350' FNL/550' FWL	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 Targa and will be connected to Targa low/high pressure gathering system located in _Lea_ County, New Mexico. It will require _11,000' of pipeline to connect the facility to low/high pressure gathering system. Kaiser-Francis Oil Company provides (periodically) to Targa a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Kaiser-Francis Oil Company and Targa have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Targa Processing Plant located in Sec._36_, Twn.__19S_, Rng._36E, __Lea__ County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

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_425H_Choke_Manifold_20200205152800.pdf

BOP Diagram Attachment:

BLUN_425H_BOP_20200205152828.pdf

BLUN_425H_Wellhead_20200205152828.pdf

BLUN_425H_Annular_Variance_Rqst_20200205152829.pdf

BLUN_425H_Flex_Hose_20200205152829.pdf

BLUN_Well_Control_Plan_20200205152852.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	14.75	10.75	NEW	API	N	0	1210	0	1210	3489	2279	1210	J-55	40.5	ST&C	2.8	5.5	DRY	8.6	DRY	12.8
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10954	0	10907		-7418	10954	HCP-110	29.7	LT&C	1.3	1.9	DRY	2.4	DRY	2.9
3	PRODUCTION	6.75	5.5	NEW	API	N	0	19735	0	11580		-8091	19735	HCP-110	20	OTHER - USS Eagle SFH	1.8	2	DRY	2.7	DRY	3.1

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Casing_Assumptions_20200205153116.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Casing_Assumptions_20200205152953.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_425H_Prod_Csg_Specs_20200205153015.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 425H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1210	583	1.7	13.5	1008	50	ExtendaCem	Poly E Flake
INTERMEDIATE	Lead		0	10954	829	2.7	11	2263	25	NeoCem	Extender
INTERMEDIATE	Tail		0	10954	566	1.2	15.6	677	25	Halcem	none
PRODUCTION	Lead		9000	19735	843	1.2	14.5	1030	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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
10907	11580	OIL-BASED MUD	10	12							
1210	10907	OTHER : Brine	8.7	9							
0	1210	OTHER : Fresh Water	8.4	9							

Date: 3/11/2021

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 #425H
Sec. 6-23S-34E
Lea Co., NM

C. Van Valkenburg

Charlotte Van Valkenburg
Mgr., Regulatory Compliance
Kaiser-Francis Oil Company

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

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

CONDITIONS

Action 20599

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK74121	12361	20599	FORM 3160-3

OCD 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