Form 3160-3
(March 2012)

Carlsbad Field Office
OCD Hobbs
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FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMLC0066438

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: BELL LAKE / NMNM068292X

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: BELL LAKE UNIT NORTH 211H (316707)

2. Name of Operator: KAISER FRANCIS OIL COMPANY (12361)

9. API Well No.: 30-025-45519

3a. Address: 6733 S. Yale Ave. Tulsa OK 74121

3b. Phone No. (include area code): (918)491-0000

10. Field and Pool, or Exploratory: ~~ANTELOPE RIDGE WEST~~ / BONE SPR (98299)

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface: NWSW / 2488 FSL / 380 FWL / LAT 32.333267 / LONG -103.533385

At proposed prod. zone: NWNW / 330 FNL / 350 FWL / LAT 32.354543 / LONG -103.533507

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 1 / T23S / R33E / NMP

14. Distance in miles and direction from nearest town or post office*: 27 miles

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any): 380 feet

16. No. of acres in lease: 479.85

17. Spacing Unit dedicated to this well: 40

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 3307 feet

19. Proposed Depth: 10700 feet / 18528 feet

20. BLM/BIA Bond No. on file: FED: WYB000055

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3528 feet

22. Approximate date work will start*: 11/01/2017

23. Estimated duration: 40 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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 required by the BLM.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	Melanie Wilson / Ph: (575)914-1461	10/31/2017

Title: Regulatory Analyst

Approved by (Signature)	Name (Printed/Typed)	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	08/04/2018

Title	Office
Assistant Field Manager Lands & Minerals	CARLSBAD

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

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

(Continued on page 2)

*(Instructions on page 2)

GCP Rec 1/16/19

APPROVED WITH CONDITIONS

Approval Date: 08/04/2018

KZ 01/17/19

INSTRUCTIONS

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

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

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

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

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

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

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

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Additional Operator Remarks

Location of Well

1. SHL: NWSW / 2488 FSL / 380 FWL / TWSP: 23S / RANGE: 33E / SECTION: 1 / LAT: 32.333267 / LONG: -103.533385 (TVD: 0 feet, MD: 0 feet)
   PPP: SWSW / 0 FSL / 350 FWL / TWSP: 22S / RANGE: 33E / SECTION: 36 / LAT: 32.340929 / LONG: -103.533419 (TVD: 10700 feet, MD: 13300 feet)
   PPP: SWNW / 2537 FNL / 350 FWL / TWSP: 23S / RANGE: 33E / SECTION: 1 / LAT: 32.333961 / LONG: -103.533481 (TVD: 10700 feet, MD: 11040 feet)
   BHL: NWNW / 330 FNL / 350 FWL / TWSP: 22S / RANGE: 33E / SECTION: 36 / LAT: 32.354543 / LONG: -103.533507 (TVD: 10700 feet, MD: 18528 feet)

BLM Point of Contact

Name: Sipra Dahal
Title: Legal Instruments Examiner
Phone: 5752345983
Email: sdahal@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Kaiser Francis Oil Co
LEASE NO.:	LC066438
WELL NAME & NO.:	211H – Bell Lake Unit North
SURFACE HOLE FOOTAGE:	2488'/S & 380'/W
BOTTOM HOLE FOOTAGE	330'/N & 350'/W, sec. 36-T22S-R33E
LOCATION:	Sec. 1, T. 23 S, R. 33 E
COUNTY:	Lea County

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

Commercial Well Determination
The proposed well is not within a participating area. A commercial well determination must be submitted to the BLM Carlsbad Office.

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

A. **Hydrogen Sulfide**

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. **CASING**

1. The **13-3/8** inch surface casing shall be set at approximately 1350 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least 500 feet into previous casing string. As proposed by operator. Operator shall provide method of verification.
Additional cement may be required – excess calculates to 18%.

C. **PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. 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. As proposed by operator

GENERAL REQUIREMENTS

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

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

☐ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 3933612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
   - Notify the BLM when moving in and removing the Spudder Rig.
   - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement

program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. **Wait on cement (WOC) for Water Basin**: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

b. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.

c. 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.

d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

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 by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

EGF 022718

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Kaiser Francos Oil Co
LEASE NO.:	LC066438
WELL NAME & NO.:	211H – Bell Lake Unit North
SURFACE HOLE FOOTAGE:	2488'/S & 380'/W
BOTTOM HOLE FOOTAGE	330'/N & 350'/W, sec. 36-T22S-R33E
LOCATION:	Section 1, T. 23 S., R. 33 E.
COUNTY:	Lea County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

Approval Date: 08/04/2018

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Timing Limitation Exceptions:
The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Watershed:
The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

Tank Battery:
Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems

will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width
The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching
Ditching shall be required on both sides of the road.

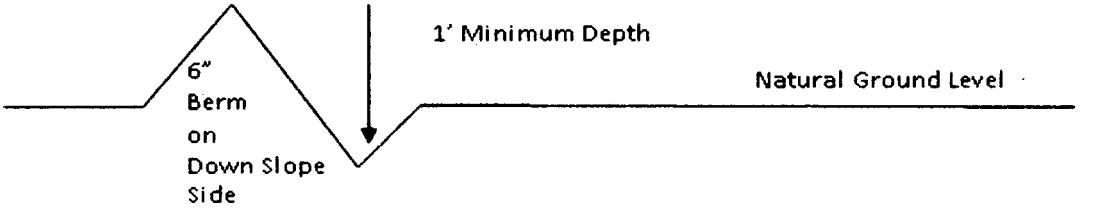
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ lead-off ditch interval

Cattle guards
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement
Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access
Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

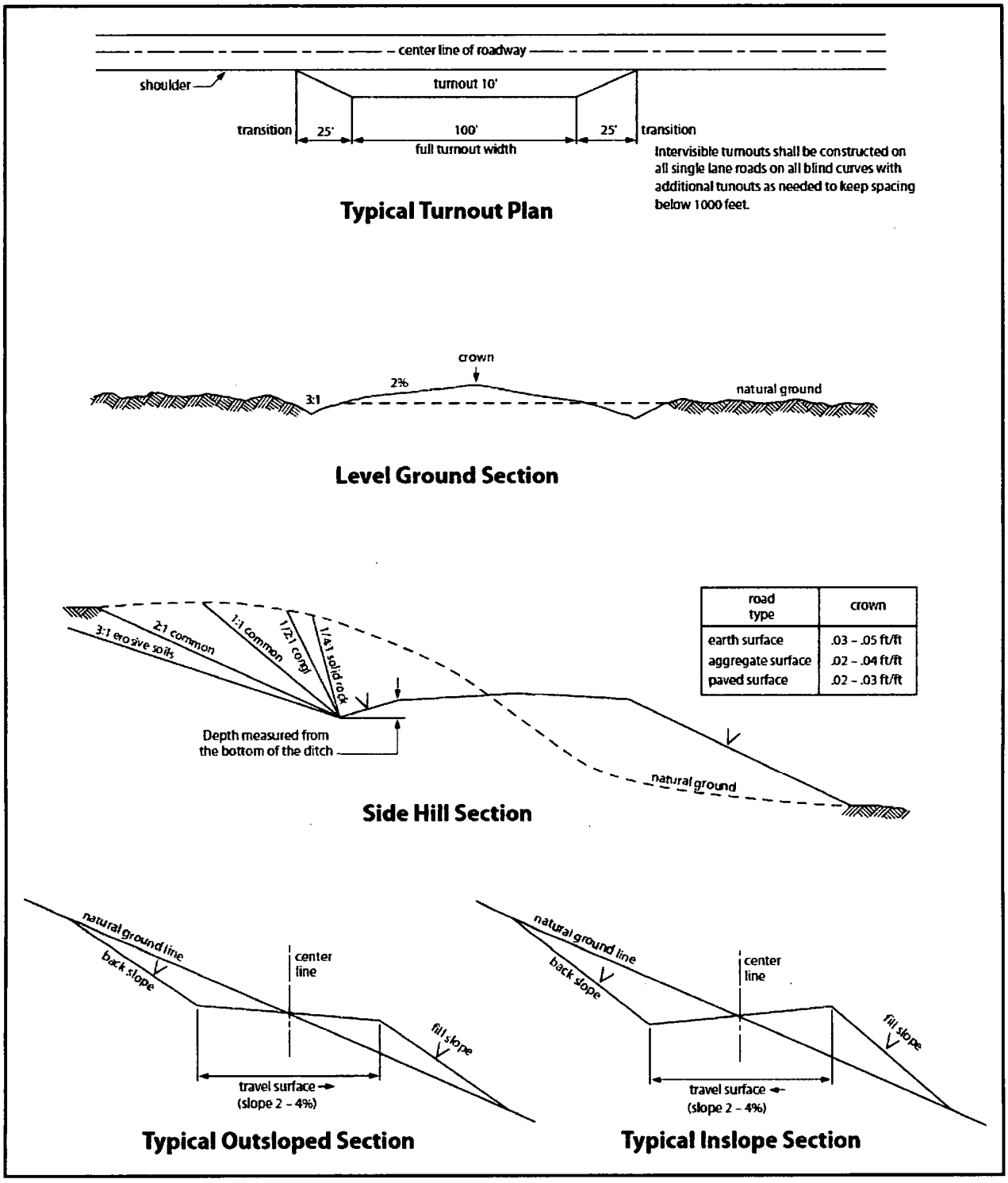


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening
The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement
All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory

revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Exhibit A-1
Company: Kaiser Francis
Lease #:NMNM068292X
Well name: Bell Lake Unit North 119H and 211H
December 1, 2014

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

Approval Date: 08/04/2018

AFMSS

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

Operator Certification Data Report

08/09/2018

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:** 10/31/2017

Title: Regulatory Analyst

Street Address: 106 W. Riverside Drive

City: Calsbad **State:** NM **Zip:** 88220

Phone: (575)914-1461

Email address: mjp1692@gmail.com

Field Representative

Representative Name: Curt Jones

Street Address: 6733 S. Yale Ave.

City: Tulsa **State:** OK **Zip:** 74136

Phone: (918)720-2558

Email address: curtj@kfoc.net

AFMSS

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

Application Data Report

08/09/2018

APD ID: 10400023388 **Submission Date:** 10/31/2017

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400023388 **Tie to previous NOS?** **Submission Date:** 10/31/2017

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: NMLC0066438 **Lease Acres:** 479.85

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? YES **Federal or Indian agreement:** FEDERAL

Agreement number: NMNM068292X

Agreement name:

Keep application confidential? YES

Permitting Agent? NO **APD Operator:** KAISER FRANCIS OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave. **Zip:** 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa **State:** OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO **Mater 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:** 211H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** ANTELOPE RIDGE **Pool Name:** BONE SPRING WEST

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:** 211H

Describe other minerals:

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

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** BELL LAKE NORTH **Number:** 211H

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: 27 Miles **Distance to nearest well:** 3307 FT **Distance to lease line:** 380 FT

Reservoir well spacing assigned acres Measurement: 40 Acres

Well plat: Bell_Lake_Unit_North_211H_C102_20171030190813.pdf

Well work start Date: 11/01/2017 **Duration:** 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number:

	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
SHL Leg #1	2488	FSL	380	FWL	23S	33E	1	Aliquot NWSW	32.333267	-103.533385	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0066438	3528	0	0
KOP Leg #1	2168	FSL	353	FWL	23S	33E	1	Aliquot NWSW	32.3323837	-103.5334794	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0066438	-6599	10140	10127
PPP Leg #1	2537	FNL	350	FWL	23S	33E	1	Aliquot SWNW	32.333961	-103.533481	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0066438	-7172	11040	10700

APD ID: 10400023388 **Submission Date:** 10/31/2017

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

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
1	---	3528	0	0		NONE	No
2	RUSTLER	2302	1226	1226		NONE	No
3	SALADO	1905	1623	1623		NONE	No
4	TOP SALT	1578	1950	1950		NONE	No
5	BASE OF SALT	-1422	4950	4950		NONE	No
6	LAMAR	-1672	5200	5200		NONE	No
7	BELL CANYON	-1983	5500	5500		NATURAL GAS,OIL	No
8	CHERRY CANYON	-3172	6700	6700		NATURAL GAS,OIL	No
9	BRUSHY CANYON	-4873	8401	8401		NATURAL GAS,OIL	No
10	BONE SPRING	-5397	8925	8925		NATURAL GAS,OIL	No
11	AVALON SAND	-5460	8988	8988		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-6448	9976	9976		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-6973	10501	10501		NATURAL GAS,OIL	Yes
14	BONE SPRING 3RD	-7498	11026	11026		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

Pressure Rating (PSI): 5M **Rating Depth:** 11000

Equipment: A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams and a blind ram. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3" line, and kill side will be a minimum 2" line). Kill line will be installed with (2) valves and a check valve (2" min) of proper pressure rating for the system. Remote kill line (2' min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3" min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.
Requesting Variance? YES

Variance request: Flex Hose Variance

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and 5000 psi high. The System may be upgraded to a higher pressure but still tested to the working pressure stated. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. The Annular shall be functionally operated at least weekly. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Choke Diagram Attachment:

Bell_Lake_Unit_North_211H_CHK_MANIFOLD_20171030195518.pdf

BOP Diagram Attachment:

Bell_Lake_Unit_North__211H_Flex_Hose_Data_20180206171207.pdf

Bell_Lake_Unit_North_211H_BOP_5m_annular_20180717153811.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1350	0	1350			1350	J-55	54.5	STC	1.8	4.3	DRY	7	DRY	11.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5200	0	5200			5200	HCP-110	40	LTC	1.5	2.9	DRY	6.1	DRY	6.1
3	PRODUCTION	8.75	5.5	NEW	API	N	0	18528	0	10700			18528	P-110	20	BUTT	2.6	2.6	DRY	2.6	DRY	3

Casing Attachments

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_North_211H_Csg_Assumptions_20171031114116.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_North_211H_Csg_Assumptions_20171031114127.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_North_211H_Csg_Assumptions_20171031114137.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1350	780	1.73	12.8	1414.42	100	SLB Lead	30% Extender
SURFACE	Tail		0	1350	272	1.66	13.6	451.45	100	SLB Tail	2% Extender
INTERMEDIATE	Lead		0	5200	1000	2.02	12.6	2020	50	SLB Lead	30% Extender
INTERMEDIATE	Tail		0	5200	246	1.29	14.2	317.34	50	SLB Tail	44% Extender
PRODUCTION	Lead		4700	18528	590	2.81	11	1646	25	NeoCem	None
PRODUCTION	Tail		4700	18528	1695	1.47	13.2	2482.3	15	NeoCem	0.6% HR-601

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1350	5200	OTHER : BRINE	10	10.2							
5200	18528	OTHER : CUT BRINE	8.7	8.9							
0	1350	SPUD MUD	8.4	9							

Section 6 - Test, Logging, Coring

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

None planned

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

DS,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4952 **Anticipated Surface Pressure:** 2598

Anticipated Bottom Hole Temperature(F): 165

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:

Bell_Lake_Unit_North_211H_H2S_Plan_20171031114714.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bell_Lake_Unit_North_211H_Directional_Plan_20171031114808.pdf

Other proposed operations facets description:

Gas Capture Plan attached

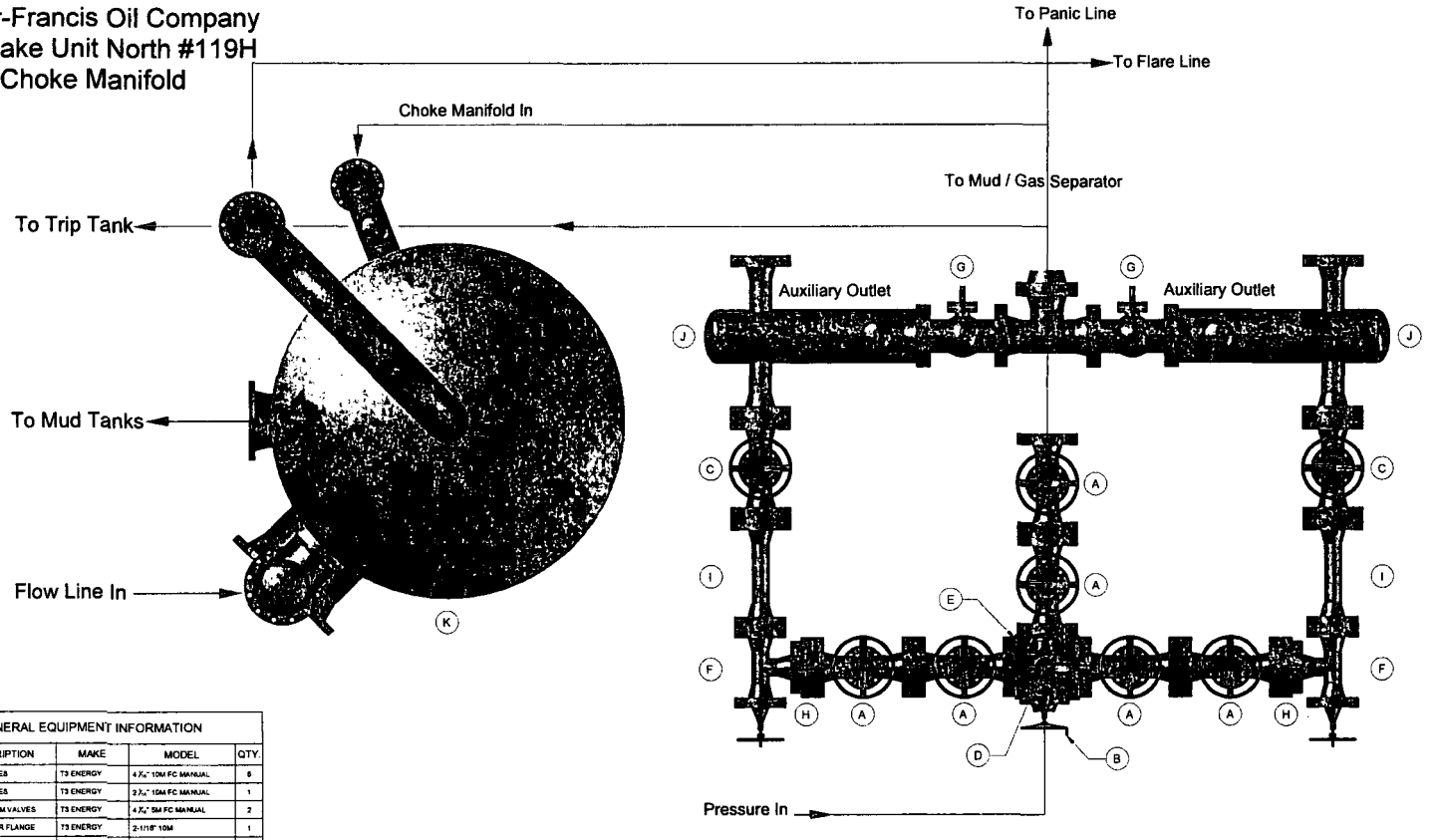
Other proposed operations facets attachment:

Bell_Lake_Unit_North_211H_Gas_Capture_Plan_20180206171242.pdf

Other Variance attachment:

Bell_Lake_Unit_North__211H_Flex_Hose_Data_20180206171233.pdf

Kaiser-Francis Oil Company
Bell Lake Unit North #119H
Choke Manifold



GENERAL EQUIPMENT INFORMATION				
ITEM	DESCRIPTION	MAKE	MODEL	QTY.
A	CHOKE VALVES	T3 ENERGY	4 1/16" 10M FC MANUAL	6
B	CHOKE VALVES	T3 ENERGY	2 1/16" 10M FC MANUAL	1
C	DOWNSTREAM VALVES	T3 ENERGY	4 1/16" 5M FC MANUAL	2
D	TRANSMITTER FLANGE	T3 ENERGY	2-1/16" 10M	1
E	STUDDED BLOCK	T3 ENERGY	(4) 4 1/16" x (1) 2 1/16" 10M	1
F	ADJUSTABLE VALVES	T3 ENERGY	3 1/16" 10M MANUAL	2
G	BALL VALVES	FORGE	6" W/ 4" THROAT 2RS-PSI	2
H	DSA's	T3 ENERGY	4 1/16" 10M x 3 1/16" 10M	2
I	SPACER SPOOLS	T3 ENERGY	4 1/16" 5M x 3 1/16" 10M	2
J	BUFFER CHAMBERS	SHOP BUILT	10" SCH 160 (10 3/4" OD)	2
K	SEPARATOR	LEDET'S WELDING	60OD x 20'L (3/8" Wall)	1
L				
M				

SYM	DATE	REVISION	BY

TOLERANCE UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES
DECIMAL DIMENSION
CONCENTRICITY
XX ± .1 .1 F.I.R.
XXX ± .05 .05 F.I.R.
XXXX ± .010 .010 F.I.R.
ANGLES ± .5 DEGREES

ACAD FILE: CAC170-A-006-00-RO

CUSTOMER INFO

FILE R-170_PRF.dwg

DWG BY	J.D.B.	05/10/17
CHK BY		
APP BY		

SCALE NTS

CACTUS Drilling Co., L.L.C.
Oklahoma City, OK, U.S.A.
Tel: 405-677-5347 Fax: 405-677-9306

TITLE
RIG 171
PRESSURE-FLOW

SIZE B | CAC170-A006 | SHEET 1/1

GATES E & S NORTH AMERICA, INC.
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: 281-602-4119
FAX:
EMAIL: Troy.Schmidt@gat
WEB: www.gates.com

10K ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/3/2017
Customer Ref. :	4086301	Hose Serial No.:	H-100317-2
Invoice No. :	508588	Created By:	Irene Pizana

Product Description:	10K3.035.0CM4.1/16FLGE/E

End Fitting 1 :	4 -1/16 10K FLANGE - FIXED	End Fitting 2 :	4 -1/16 10K FLANGE - FLOATING
Gates Part No. :	68603010-9710398	Assembly Code :	L39789092117H-100317-2
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Section 9.7.7 and Table 10 of API 7K, Sixth Edition (December 2015).

Quality:	QUALITY	Produciton:	PRODUCTION
Date :	10/3/2017	Date :	10/3/2017
Signature :		Signature :	

Form PTC - 01 Rev.0 2

POWERING PROGRESS™

Gates E&S North America, Inc.
7603 Prairie Oak Dr.
Houston, TX. 77086
PHONE :
FAX:
Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates E & S, North America Inc.**, facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 7K.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMERS P.O.#: 4086301
PART DESCRIPTION: 10K3.035.0CM4.1/16FLGE/E
SALES ORDER #: 508588
QUANTITY: 1
SERIAL #: H-100317-2

SIGNATURE: _____

TITLE: QUALITY ASSURANCE

DATE: 10/3/2017

JOB REPORT

COMPANY DETAILS

Company: Austin
Contact:
Phone:

Email: Irene.pizana@gates.com

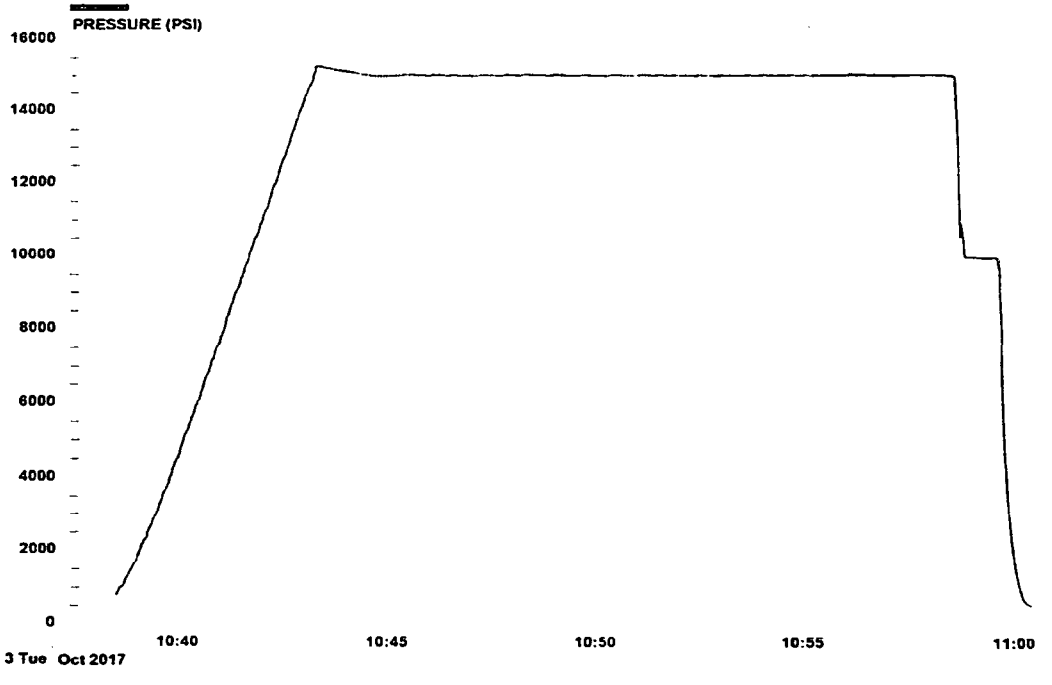
JOB DETAILS

DATE October 03, 2017
START TIME 10:38:29
END TIME 11:00:25
Gates Rep: Chris Olivo
Recommendation: H-100317-2
Working Pressure: 10000
Ext Inspection: Pass
Fitting Inspection: Pass
Test pressure: 15000
Serial No: H-100317-2

Length: 35'
Inner Diameter: 3.0"
Pressure Test: Pass
Internal Inspection: N/A
Fitting Type: 10K Flange ExE

GATES ENGINEERING & SERVICES NA
QA/QC
OCT 03 2017
APPROVED

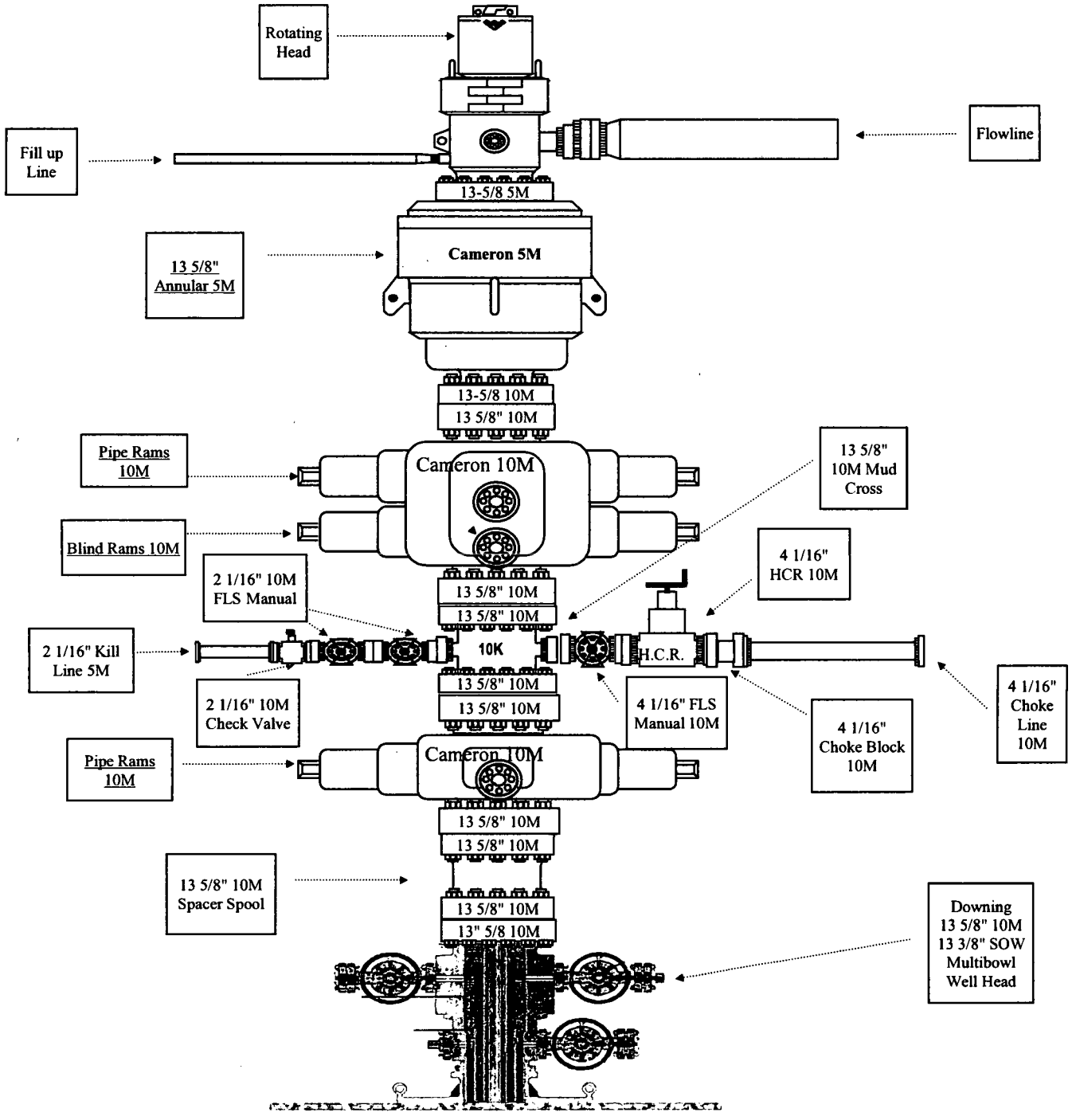
SUMMARY GRAPH



Report Created: 3-Oct-17

Cactus Rig 171
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**



Keiser-Francis Oil Company
Bell Lake Unit North #211H
Casing Assumptions

Formation Name	Formation Top TVD
Rustler	1226
Salado	1623
Top of Salt	1950
Base of Salt	4950
Lamar	5200
Bell Canyon	5500
Cherry Canyon	6700
Brushy Canyon	8401
Bone Spring	8925
Avalon	8988
1 BSS	9976
2 BSS	10501
3 BSL	11026
3 BSS	11551
Wolfcamp	11851

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)
Conductor	120'	20"				New		120
Surface	1350'	13-5/8"	54.5	J-55	STC	New	17-1/2"	1350
Intermediate	5200'	9-5/8"	40	HCP-110	LTC	New	12-1/4"	5200
Production	18528'	5-1/2"	20	P110	BTC	New	8-3/4"	10700

Mud Type	Mud Weight Hole Control	Viscosity	Fluid Loss
FW	8.4 - 9.0	32 - 34	NC
Brine	10 - 10.2	28	NC
Cut Brine	8.7 - 8.9	28-29	NC

Anticipated Mud Weight (ppg)	Max Pore Pressure (psi)	Collapse (psi)	Burst (psi)	Body Tensile Strength	Joint Tensile Strength
9	632	1130	2730	853000	514000
10.2	2758	4230	7900	1260000	1266000
8.9	4952	11100	12640	641000	548000

Collapse Safety Factor (Min 1.1)	Burst Safety Factor (Min 1.0)	Body Tensile Safety Factor (Min 1.8)	Joint Tensile Safety Factor (Min
1.8	4.3	11.6	7.0
1.5	2.9	6.1	6.1
2.2	2.6	3.0	2.6

Kaiser-Francis Oil Company
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Kaiser-Francis Oil Company
Bell Lake Unit North #211H
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1.8	4.3	11.6	7.0
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2.2	2.6	3.0	2.6

KAISER-FRANCIS OIL COMPANY
HYDROGEN SULFIDE (H_2S) CONTINGENCY PLAN
FOR DRILLING/COMPLETION WORKOVER/FACILITY

BELL LAKE UNIT NORTH #211H
SECTION 1 -T23S-R33E
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
Matt Warner	918/491-4379	720/556-2313

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

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

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

Calculation for the 500 ppm ROE:

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

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

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

Kaiser Francis Oil Company
Lea County, NM (NAD 27)
Bell Lake Unit North 211H
Plan #2

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP BLUN 211H Pln #2	10127.0	-320.8	-26.7	485516.62	747204.27	32° 19' 56.146 N	103° 31' 58.794 W
FTP BLUN 211H Pln #2 (2537.5' FNL & 350' FWL Sec 1	10700.0	252.2	-31.6	486089.55	747199.40	32° 20' 1.815 N	103° 31' 58.801 W
PBHL BLUN 211H Pln #2 (330' FNL & 350' FWL Sec 36)	10700.0	7739.6	-96.3	493677.00	747135.70	32° 21' 16.910 N	103° 31' 58.891 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5620.0	0.00	0.00	5620.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
6864.5	4.89	184.75	6864.2	-10.4	-0.9	2.00	184.76	-10.4	Start 3531.4 hold at 6864.5 MD
9396.9	4.89	184.75	9392.8	-310.4	-26.9	0.00	0.00	-310.0	Start Drop -2.00
9640.4	0.00	0.00	9627.0	-320.8	-26.7	2.00	180.00	-320.4	Start 500.0 hold at 9640.4 MD
10140.4	0.00	0.00	10127.0	-320.8	-26.7	0.00	0.00	-320.4	Start DLS 10.00 TFO 359.51
11040.4	90.00	359.51	10700.0	252.2	-31.6	10.00	359.51	252.5	Start 7487.7 hold at 11040.4 MD
18528.2	90.00	359.51	10700.0	7739.6	-96.3	0.00	0.00	7740.2	TD at 18528.2

WELL DETAILS: Bell Lake Unit North 211H

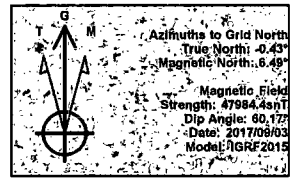
3528.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	485837.40	747231.00	32° 19' 59.318 N	103° 31' 58.454 W

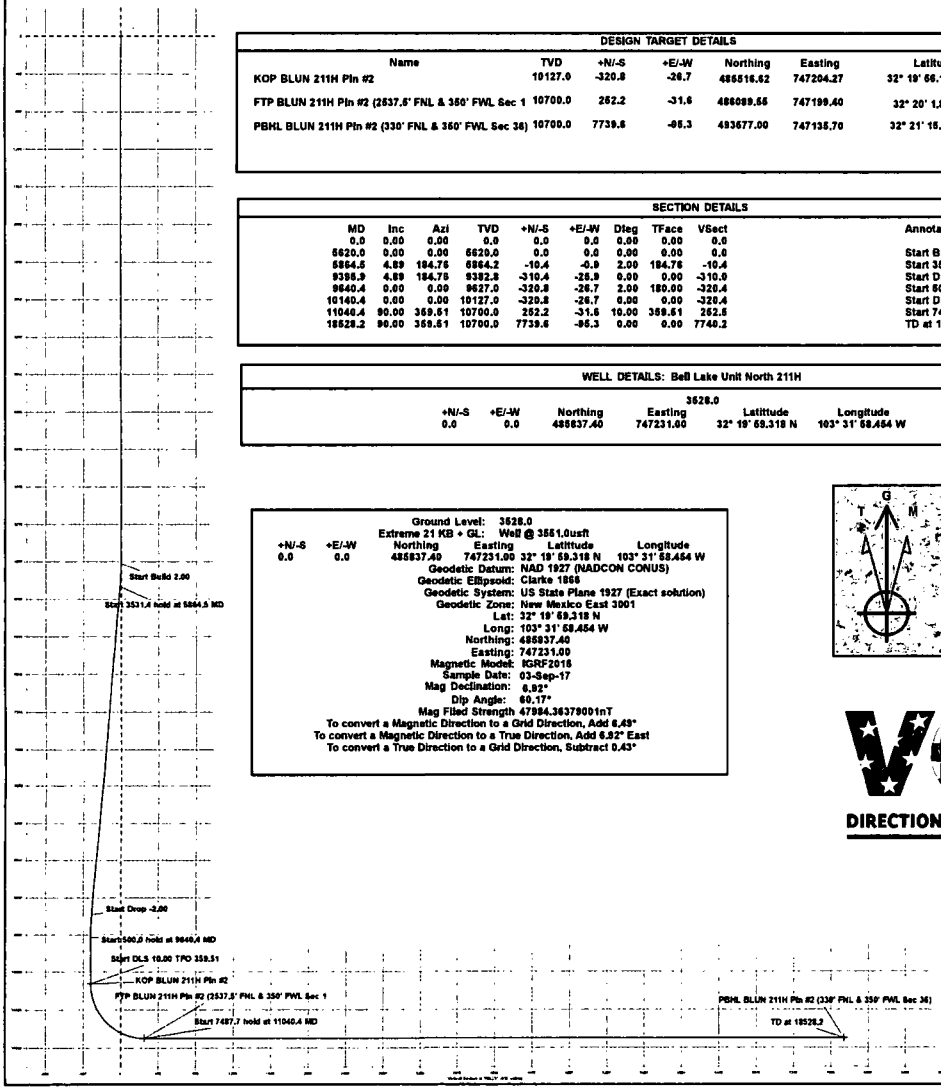
Ground Level: 3528.0
Extreme 21 KB + GL: Well @ 3561.0usft

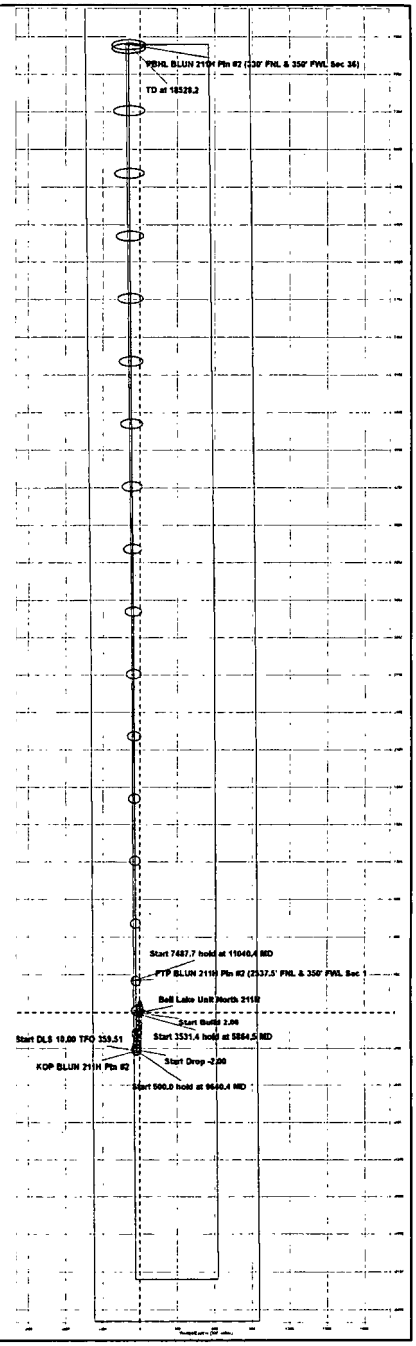
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	485837.40	747231.00	32° 19' 59.318 N	103° 31' 58.454 W

Geodetic Datum: NAD 1927 (NADCON CONUS)
Geodetic Ellipsoid: Clarke 1866
Geodetic System: US State Plane 1927 (Exact solution)
Geodetic Zone: New Mexico East 3001
Lat: 32° 19' 59.318 N
Long: 103° 31' 58.454 W
Northing: 485837.40
Easting: 747231.00
Magnetic Model: IGRF2015
Sample Date: 03-Sep-17
Mag Declination: 6.92°
Dip Angle: 60.17°
Mag Filed Strength 47984.36379001nT
To convert a Magnetic Direction to a Grid Direction, Add 6.49°
To convert a Magnetic Direction to a True Direction, Add 6.92° East
To convert a True Direction to a Grid Direction, Subtract 0.43°



VCR DIRECTIONAL SERVICES, LLC.





DIRECTIONAL SERVICES, LLC.

Kaiser Francis Oil Company

Lea County, NM (NAD 27)
Bell Lake Unit Pad
Bell Lake Unit North 211H

Wellbore #1

Plan: Plan #2

Standard Planning Report

27 September, 2017

Kaiser-Francis Oil Company

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Lea County, NM (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Bell Lake Unit Pad				
Site Position:		**Northing:**	454,849.70 usft	**Latitude:**	32° 14' 52.674 N
From:	Map	**Easting:**	747,377.60 usft	**Longitude:**	103° 31' 59.440 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.43 °

Well	Bell Lake Unit North 211H					
Well Position	**+N/-S**	30,987.7 usft	**Northing:**	485,837.40 usft	**Latitude:**	32° 19' 59.318 N
	+E/-W	-146.6 usft	**Easting:**	747,231.00 usft	**Longitude:**	103° 31' 58.454 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,528.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	2017/09/03	6.92	60.17	47,984.36379001

Design	Plan #2				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	359.29	

Plan Survey Tool Program **Date** 2017/09/27

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,528.2	Plan #2 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,620.0	0.00	0.00	5,620.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,864.5	4.89	184.76	5,864.2	-10.4	-0.9	2.00	2.00	0.00	184.76	
9,395.9	4.89	184.76	9,382.8	-310.4	-25.9	0.00	0.00	0.00	0.00	
9,640.4	0.00	0.00	9,627.0	-320.8	-26.7	2.00	-2.00	0.00	180.00	
10,140.4	0.00	0.00	10,127.0	-320.8	-26.7	0.00	0.00	0.00	0.00	KOP BLUN 211H P
11,040.4	90.00	359.51	10,700.0	252.2	-31.6	10.00	10.00	-0.05	359.51	
18,528.2	90.00	359.51	10,700.0	7,739.6	-95.3	0.00	0.00	0.00	0.00	PBHL BLUN 211H I

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,620.0	0.00	0.00	5,620.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
5,700.0	1.60	184.76	5,700.0	-1.1	-0.1	-1.1	2.00	2.00	0.00
5,800.0	3.60	184.76	5,799.9	-5.6	-0.5	-5.6	2.00	2.00	0.00
5,864.5	4.89	184.76	5,864.2	-10.4	-0.9	-10.4	2.00	2.00	0.00
Start 3531.4 hold at 5864.5 MD									
5,900.0	4.89	184.76	5,899.6	-13.4	-1.1	-13.4	0.00	0.00	0.00
6,000.0	4.89	184.76	5,999.2	-21.9	-1.8	-21.9	0.00	0.00	0.00
6,100.0	4.89	184.76	6,098.8	-30.4	-2.5	-30.4	0.00	0.00	0.00
6,200.0	4.89	184.76	6,198.5	-38.9	-3.2	-38.8	0.00	0.00	0.00
6,300.0	4.89	184.76	6,298.1	-47.4	-3.9	-47.3	0.00	0.00	0.00
6,400.0	4.89	184.76	6,397.8	-55.9	-4.7	-55.8	0.00	0.00	0.00
6,500.0	4.89	184.76	6,497.4	-64.4	-5.4	-64.3	0.00	0.00	0.00
6,600.0	4.89	184.76	6,597.0	-72.9	-6.1	-72.8	0.00	0.00	0.00
6,700.0	4.89	184.76	6,696.7	-81.4	-6.8	-81.3	0.00	0.00	0.00
6,800.0	4.89	184.76	6,796.3	-89.9	-7.5	-89.8	0.00	0.00	0.00
6,900.0	4.89	184.76	6,895.9	-98.4	-8.2	-98.2	0.00	0.00	0.00
7,000.0	4.89	184.76	6,995.6	-106.9	-8.9	-106.7	0.00	0.00	0.00
7,100.0	4.89	184.76	7,095.2	-115.3	-9.6	-115.2	0.00	0.00	0.00
7,200.0	4.89	184.76	7,194.8	-123.8	-10.3	-123.7	0.00	0.00	0.00
7,300.0	4.89	184.76	7,294.5	-132.3	-11.0	-132.2	0.00	0.00	0.00
7,400.0	4.89	184.76	7,394.1	-140.8	-11.7	-140.7	0.00	0.00	0.00
7,500.0	4.89	184.76	7,493.8	-149.3	-12.4	-149.2	0.00	0.00	0.00
7,600.0	4.89	184.76	7,593.4	-157.8	-13.1	-157.6	0.00	0.00	0.00
7,700.0	4.89	184.76	7,693.0	-166.3	-13.9	-166.1	0.00	0.00	0.00
7,800.0	4.89	184.76	7,792.7	-174.8	-14.6	-174.6	0.00	0.00	0.00
7,900.0	4.89	184.76	7,892.3	-183.3	-15.3	-183.1	0.00	0.00	0.00
8,000.0	4.89	184.76	7,991.9	-191.8	-16.0	-191.6	0.00	0.00	0.00
8,100.0	4.89	184.76	8,091.6	-200.3	-16.7	-200.1	0.00	0.00	0.00
8,200.0	4.89	184.76	8,191.2	-208.8	-17.4	-208.6	0.00	0.00	0.00
8,300.0	4.89	184.76	8,290.8	-217.3	-18.1	-217.0	0.00	0.00	0.00
8,400.0	4.89	184.76	8,390.5	-225.8	-18.8	-225.5	0.00	0.00	0.00
8,500.0	4.89	184.76	8,490.1	-234.3	-19.5	-234.0	0.00	0.00	0.00
8,600.0	4.89	184.76	8,589.7	-242.8	-20.2	-242.5	0.00	0.00	0.00
8,700.0	4.89	184.76	8,689.4	-251.3	-20.9	-251.0	0.00	0.00	0.00
8,800.0	4.89	184.76	8,789.0	-259.8	-21.6	-259.5	0.00	0.00	0.00
8,900.0	4.89	184.76	8,888.7	-268.3	-22.3	-268.0	0.00	0.00	0.00
9,000.0	4.89	184.76	8,988.3	-276.8	-23.1	-276.4	0.00	0.00	0.00
9,100.0	4.89	184.76	9,087.9	-285.2	-23.8	-284.9	0.00	0.00	0.00
9,200.0	4.89	184.76	9,187.6	-293.7	-24.5	-293.4	0.00	0.00	0.00
9,300.0	4.89	184.76	9,287.2	-302.2	-25.2	-301.9	0.00	0.00	0.00
9,395.9	4.89	184.76	9,382.8	-310.4	-25.9	-310.0	0.00	0.00	0.00
Start Drop -2.00									
9,400.0	4.81	184.76	9,386.8	-310.7	-25.9	-310.4	2.00	-2.00	0.00
9,500.0	2.81	184.76	9,486.6	-317.3	-26.4	-317.0	2.00	-2.00	0.00
9,600.0	0.81	184.76	9,586.6	-320.5	-26.7	-320.1	2.00	-2.00	0.00
9,640.4	0.00	0.00	9,627.0	-320.8	-26.7	-320.4	2.00	-2.00	0.00
Start 500.0 hold at 9640.4 MD									
9,700.0	0.00	0.00	9,686.6	-320.8	-26.7	-320.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,786.6	-320.8	-26.7	-320.4	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	0.00	0.00	9,886.6	-320.8	-26.7	-320.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,986.6	-320.8	-26.7	-320.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,086.6	-320.8	-26.7	-320.4	0.00	0.00	0.00
10,140.4	0.00	0.00	10,127.0	-320.8	-26.7	-320.4	0.00	0.00	0.00
Start DLS 10.00 TFO 359.51									
10,200.0	5.96	359.51	10,186.4	-317.7	-26.8	-317.3	10.00	10.00	0.00
10,300.0	15.96	359.51	10,284.5	-298.7	-26.9	-298.4	10.00	10.00	0.00
10,400.0	25.96	359.51	10,377.8	-263.0	-27.2	-262.6	10.00	10.00	0.00
10,500.0	35.96	359.51	10,463.4	-211.6	-27.7	-211.3	10.00	10.00	0.00
10,600.0	45.96	359.51	10,538.8	-146.2	-28.2	-145.8	10.00	10.00	0.00
10,700.0	55.96	359.51	10,601.8	-68.6	-28.9	-68.2	10.00	10.00	0.00
10,800.0	65.96	359.51	10,650.2	18.7	-29.6	19.1	10.00	10.00	0.00
10,900.0	75.96	359.51	10,682.8	113.1	-30.4	113.5	10.00	10.00	0.00
11,000.0	85.96	359.51	10,698.5	211.7	-31.3	212.1	10.00	10.00	0.00
11,040.4	90.00	359.51	10,700.0	252.2	-31.6	252.5	10.00	10.00	0.00
Start 7487.7 hold at 11040.4 MD									
11,100.0	90.00	359.51	10,700.0	311.7	-32.1	312.1	0.00	0.00	0.00
11,200.0	90.00	359.51	10,700.0	411.7	-33.0	412.1	0.00	0.00	0.00
11,300.0	90.00	359.51	10,700.0	511.7	-33.8	512.1	0.00	0.00	0.00
11,400.0	90.00	359.51	10,700.0	611.7	-34.7	612.1	0.00	0.00	0.00
11,500.0	90.00	359.51	10,700.0	711.7	-35.5	712.1	0.00	0.00	0.00
11,600.0	90.00	359.51	10,700.0	811.7	-36.4	812.1	0.00	0.00	0.00
11,700.0	90.00	359.51	10,700.0	911.7	-37.2	912.1	0.00	0.00	0.00
11,800.0	90.00	359.51	10,700.0	1,011.7	-38.1	1,012.1	0.00	0.00	0.00
11,900.0	90.00	359.51	10,700.0	1,111.7	-38.9	1,112.1	0.00	0.00	0.00
12,000.0	90.00	359.51	10,700.0	1,211.7	-39.8	1,212.1	0.00	0.00	0.00
12,100.0	90.00	359.51	10,700.0	1,311.7	-40.6	1,312.1	0.00	0.00	0.00
12,200.0	90.00	359.51	10,700.0	1,411.7	-41.5	1,412.1	0.00	0.00	0.00
12,300.0	90.00	359.51	10,700.0	1,511.7	-42.3	1,512.1	0.00	0.00	0.00
12,400.0	90.00	359.51	10,700.0	1,611.7	-43.2	1,612.1	0.00	0.00	0.00
12,500.0	90.00	359.51	10,700.0	1,711.7	-44.0	1,712.1	0.00	0.00	0.00
12,600.0	90.00	359.51	10,700.0	1,811.7	-44.9	1,812.1	0.00	0.00	0.00
12,700.0	90.00	359.51	10,700.0	1,911.7	-45.7	1,912.1	0.00	0.00	0.00
12,800.0	90.00	359.51	10,700.0	2,011.6	-46.6	2,012.1	0.00	0.00	0.00
12,900.0	90.00	359.51	10,700.0	2,111.6	-47.4	2,112.1	0.00	0.00	0.00
13,000.0	90.00	359.51	10,700.0	2,211.6	-48.3	2,212.1	0.00	0.00	0.00
13,100.0	90.00	359.51	10,700.0	2,311.6	-49.1	2,312.1	0.00	0.00	0.00
13,200.0	90.00	359.51	10,700.0	2,411.6	-50.0	2,412.1	0.00	0.00	0.00
13,300.0	90.00	359.51	10,700.0	2,511.6	-50.8	2,512.1	0.00	0.00	0.00
13,400.0	90.00	359.51	10,700.0	2,611.6	-51.7	2,612.1	0.00	0.00	0.00
13,500.0	90.00	359.51	10,700.0	2,711.6	-52.5	2,712.1	0.00	0.00	0.00
13,600.0	90.00	359.51	10,700.0	2,811.6	-53.4	2,812.1	0.00	0.00	0.00
13,700.0	90.00	359.51	10,700.0	2,911.6	-54.2	2,912.1	0.00	0.00	0.00
13,800.0	90.00	359.51	10,700.0	3,011.6	-55.1	3,012.1	0.00	0.00	0.00
13,900.0	90.00	359.51	10,700.0	3,111.6	-55.9	3,112.1	0.00	0.00	0.00
14,000.0	90.00	359.51	10,700.0	3,211.6	-56.8	3,212.1	0.00	0.00	0.00
14,100.0	90.00	359.51	10,700.0	3,311.6	-57.6	3,312.1	0.00	0.00	0.00
14,200.0	90.00	359.51	10,700.0	3,411.6	-58.5	3,412.1	0.00	0.00	0.00
14,300.0	90.00	359.51	10,700.0	3,511.6	-59.3	3,512.1	0.00	0.00	0.00
14,400.0	90.00	359.51	10,700.0	3,611.6	-60.2	3,612.1	0.00	0.00	0.00
14,500.0	90.00	359.51	10,700.0	3,711.6	-61.0	3,712.1	0.00	0.00	0.00
14,600.0	90.00	359.51	10,700.0	3,811.6	-61.9	3,812.1	0.00	0.00	0.00
14,700.0	90.00	359.51	10,700.0	3,911.6	-62.7	3,912.1	0.00	0.00	0.00
14,800.0	90.00	359.51	10,700.0	4,011.6	-63.6	4,012.1	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.0	90.00	359.51	10,700.0	4,111.6	-64.4	4,112.1	0.00	0.00	0.00
15,000.0	90.00	359.51	10,700.0	4,211.6	-65.3	4,212.1	0.00	0.00	0.00
15,100.0	90.00	359.51	10,700.0	4,311.6	-66.1	4,312.1	0.00	0.00	0.00
15,200.0	90.00	359.51	10,700.0	4,411.6	-67.0	4,412.0	0.00	0.00	0.00
15,300.0	90.00	359.51	10,700.0	4,511.6	-67.8	4,512.0	0.00	0.00	0.00
15,400.0	90.00	359.51	10,700.0	4,611.6	-68.7	4,612.0	0.00	0.00	0.00
15,500.0	90.00	359.51	10,700.0	4,711.5	-69.5	4,712.0	0.00	0.00	0.00
15,600.0	90.00	359.51	10,700.0	4,811.5	-70.4	4,812.0	0.00	0.00	0.00
15,700.0	90.00	359.51	10,700.0	4,911.5	-71.2	4,912.0	0.00	0.00	0.00
15,800.0	90.00	359.51	10,700.0	5,011.5	-72.1	5,012.0	0.00	0.00	0.00
15,900.0	90.00	359.51	10,700.0	5,111.5	-72.9	5,112.0	0.00	0.00	0.00
16,000.0	90.00	359.51	10,700.0	5,211.5	-73.8	5,212.0	0.00	0.00	0.00
16,100.0	90.00	359.51	10,700.0	5,311.5	-74.6	5,312.0	0.00	0.00	0.00
16,200.0	90.00	359.51	10,700.0	5,411.5	-75.5	5,412.0	0.00	0.00	0.00
16,300.0	90.00	359.51	10,700.0	5,511.5	-76.3	5,512.0	0.00	0.00	0.00
16,400.0	90.00	359.51	10,700.0	5,611.5	-77.2	5,612.0	0.00	0.00	0.00
16,500.0	90.00	359.51	10,700.0	5,711.5	-78.0	5,712.0	0.00	0.00	0.00
16,600.0	90.00	359.51	10,700.0	5,811.5	-78.9	5,812.0	0.00	0.00	0.00
16,700.0	90.00	359.51	10,700.0	5,911.5	-79.7	5,912.0	0.00	0.00	0.00
16,800.0	90.00	359.51	10,700.0	6,011.5	-80.6	6,012.0	0.00	0.00	0.00
16,900.0	90.00	359.51	10,700.0	6,111.5	-81.4	6,112.0	0.00	0.00	0.00
17,000.0	90.00	359.51	10,700.0	6,211.5	-82.3	6,212.0	0.00	0.00	0.00
17,100.0	90.00	359.51	10,700.0	6,311.5	-83.2	6,312.0	0.00	0.00	0.00
17,200.0	90.00	359.51	10,700.0	6,411.5	-84.0	6,412.0	0.00	0.00	0.00
17,300.0	90.00	359.51	10,700.0	6,511.5	-84.9	6,512.0	0.00	0.00	0.00
17,400.0	90.00	359.51	10,700.0	6,611.5	-85.7	6,612.0	0.00	0.00	0.00
17,500.0	90.00	359.51	10,700.0	6,711.5	-86.6	6,712.0	0.00	0.00	0.00
17,600.0	90.00	359.51	10,700.0	6,811.5	-87.4	6,812.0	0.00	0.00	0.00
17,700.0	90.00	359.51	10,700.0	6,911.5	-88.3	6,912.0	0.00	0.00	0.00
17,800.0	90.00	359.51	10,700.0	7,011.5	-89.1	7,012.0	0.00	0.00	0.00
17,900.0	90.00	359.51	10,700.0	7,111.5	-90.0	7,112.0	0.00	0.00	0.00
18,000.0	90.00	359.51	10,700.0	7,211.5	-90.8	7,212.0	0.00	0.00	0.00
18,100.0	90.00	359.51	10,700.0	7,311.5	-91.7	7,312.0	0.00	0.00	0.00
18,200.0	90.00	359.51	10,700.0	7,411.5	-92.5	7,412.0	0.00	0.00	0.00
18,300.0	90.00	359.51	10,700.0	7,511.4	-93.4	7,512.0	0.00	0.00	0.00
18,400.0	90.00	359.51	10,700.0	7,611.4	-94.2	7,612.0	0.00	0.00	0.00
18,500.0	90.00	359.51	10,700.0	7,711.4	-95.1	7,712.0	0.00	0.00	0.00
18,528.2	90.00	359.51	10,700.0	7,739.6	-95.3	7,740.2	0.00	0.00	0.00
TD at 18528.2									

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 211H
Company:	Kaiser Francis Oil Company	**TVD Reference:**	Well @ 3551.0usft
Project:	Lea County, NM (NAD 27)	**MD Reference:**	Well @ 3551.0usft
Site:	Bell Lake Unit Pad	**North Reference:**	Grid
Well:	Bell Lake Unit North 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP BLUN 211H Pln - plan hits target center - Point	0.00	0.00	10,127.0	-320.8	-26.7	485,516.62	747,204.27	32° 19' 56.145 N	103° 31' 58.794 W
FTP BLUN 211H Pln # - plan hits target center - Point	0.00	0.00	10,700.0	252.2	-31.6	486,089.56	747,199.40	32° 20' 1.815 N	103° 31' 58.801 W
PBHL BLUN 211H Plr - plan hits target center - Point	0.00	0.01	10,700.0	7,739.6	-95.3	493,577.00	747,135.70	32° 21' 15.910 N	103° 31' 58.891 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,620.0	5,620.0	0.0	0.0	Start Build 2.00
5,864.5	5,864.2	-10.4	-0.9	Start 3531.4 hold at 5864.5 MD
9,395.9	9,382.8	-310.4	-25.9	Start Drop -2.00
9,640.4	9,627.0	-320.8	-26.7	Start 500.0 hold at 9640.4 MD
10,140.4	10,127.0	-320.8	-26.7	Start DLS 10.00 TFO 359.51
11,040.4	10,700.0	252.2	-31.6	Start 7487.7 hold at 11040.4 MD
18,528.2	10,700.0	7,739.6	-95.3	TD at 18528.2

POWERING PROGRESS™

Gates E&S North America, Inc.
7603 Prairie Oak Dr.
Houston, TX. 77086
PHONE :
FAX:
Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates E & S, North America Inc.**, facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 7K.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMERS P.O.#: 4086301
PART DESCRIPTION: 10K3.035.0CM4.1/16FLGE/E
SALES ORDER #: 508588
QUANTITY: 1
SERIAL #: H-100317-2

SIGNATURE: _____

TITLE: QUALITY ASSURANCE

DATE: 10/3/2017

JOB REPORT

COMPANY DETAILS

Company: Austin
Contact:
Phone:

Email: Irene.pizana@gates.com

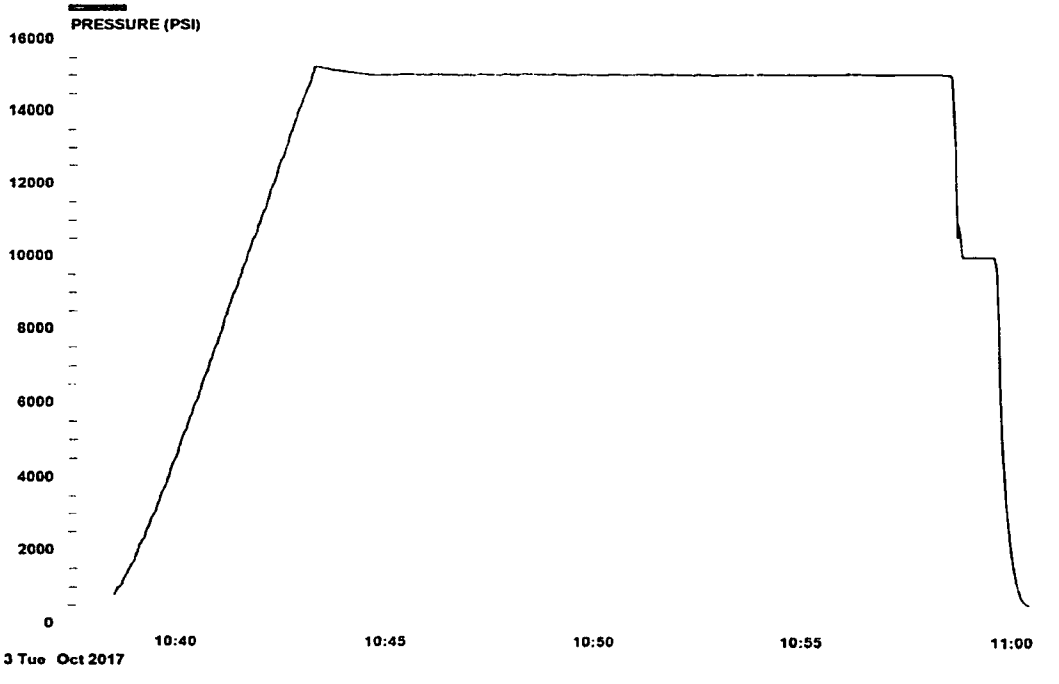
JOB DETAILS

DATE October 03, 2017
START TIME 10:38:29
END TIME 11:00:25
Gates Rep: Chris Olivo
Recommendation: H-100317-2
Working Pressure: 10000
Ext Inspection: Pass
Fitting Inspection: Pass
Test pressure: 15000
Serial No: H-100317-2

Length: 35'
Inner Diameter: 3.0"
Pressure Test: Pass
Internal Inspection: N/A
Fitting Type: 10K Flange ExE

GATES ENGINEERING & SERVICES NA
QA/QC
OCT 03 2017
APPROVED

SUMMARY GRAPH



Report Created: 3-Oct-17

APD ID: 10400023388 **Submission Date:** 10/31/2017

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

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

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Bell_Lake_Unit_North_211H_Roads_20171031114921.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:

Bell_Lake_Unit_North_211H_Access_Road_20171031114955.pdf

New road type: RESOURCE

Length: 16208 Feet **Width (ft.):** 25

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

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

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

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from BLM caliche pit in SWSW Section 22-T24S-R34E or NENE Section 20- T23S-R33E
Onsite topsoil removal process: The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.
Access other construction information:

Access miscellaneous information:

Number of access turnouts: **Access turnout map:**

Drainage Control

New road drainage crossing: OTHER

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

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Bell_Lake_Unit_North_211H_1_Mile_Radius_20171031115050.pdf

Existing Wells description:

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 48"X 10' 2-phase sep

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING **Water source type:** OTHER

Describe type: BRINE WATER

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: OTHER **Describe transportation land ownership:**

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

Source volume (gal): 840000

Water source use type: OTHER, STIMULATION, SURFACE CASING **Water source type:** OTHER

Describe type: FRESH WATER

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: OTHER **Describe transportation land ownership:**

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

Source volume (gal): 10500000

Water source and transportation map:

Bell_Lake_Unit_North_211H_Wtr_Source_Map_20171031115130.pdf

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

New water well? NO

New Water Well Info

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

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

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

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

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

Drilling method: **Drill material:**

Grout material: **Grout depth:**

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

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

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

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 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.

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Bell_Lake_Unit_North_211H_Well_Site_Layout_20171031115435.pdf
Bell_Lake_Unit_North_211H_Rig_Layout_20171031115522.pdf
Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: BELL LAKE NORTH

Multiple Well Pad Number: 211H

Recontouring attachment:

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

Well pad proposed disturbance (acres):
Road proposed disturbance (acres):
Powerline proposed disturbance (acres):
Pipeline proposed disturbance (acres):
Other proposed disturbance (acres):
Total proposed disturbance:

Well pad interim reclamation (acres): 5.97
Road interim reclamation (acres): 9.3
Powerline interim reclamation (acres):
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 15.27

Well pad long term disturbance (acres): 3.44
Road long term disturbance (acres): 5.58
Powerline long term disturbance (acres):
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0
Total long term disturbance: 9.02

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: N/A

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre: **Proposed seeding season:**

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? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

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

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

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT,STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

DOD Local Office:

NPS Local Office:

State Local Office: NM STATE LAND OFFICE,COMMISSIONER OF PUBLIC LANDS, STATE OF NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT,STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: STATE OF NM,COMMISSIONER OF PUBLIC LANDS

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:

[redacted]

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? NO **Use APD as ROW?**

ROW Type(s):

ROW Applications

SUPO Additional Information: SUPO will be attached with APD.

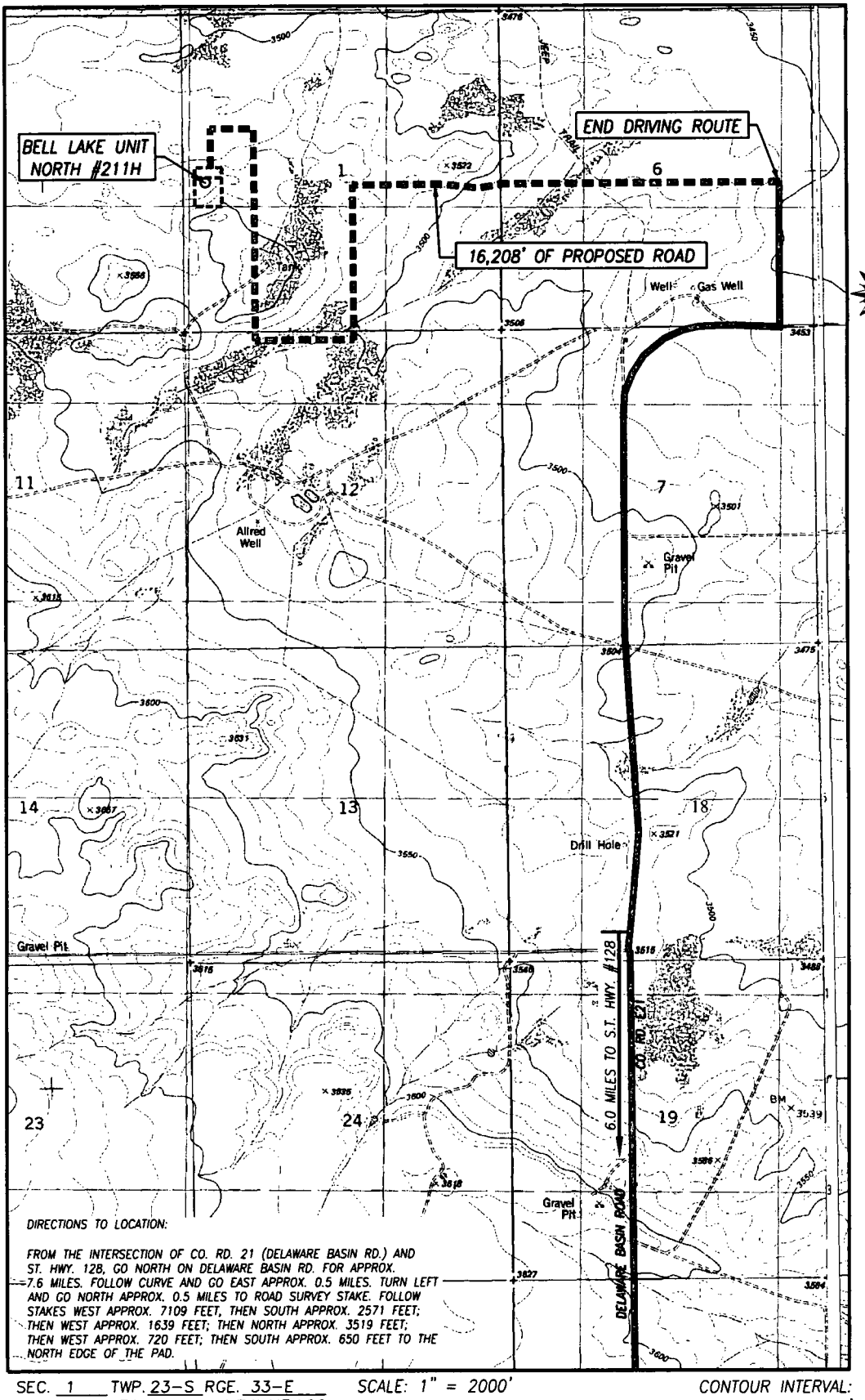
Use a previously conducted onsite? YES

Previous Onsite information: Onsite conducted 07/20/2017 by Fernando Banos (BLM), Matt Warner & Melanie Wilson (Kaiser-Francis), Jimmy Harrison (John West Surveying) and Jeff (APAC archaeologist).

Other SUPO Attachment

Bell_Lake_Unit_North__211H_SUP_20171031115940.pdf
Bell_Lake_Unit_North_211H_SPCC_Plan_20171031115952.pdf

TOPOGRAPHIC AND ACCESS ROAD MAP



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF CO. RD. 21 (DELAWARE BASIN RD.) AND ST. HWY. 128, GO NORTH ON DELAWARE BASIN RD. FOR APPROX. 7.6 MILES. FOLLOW CURVE AND GO EAST APPROX. 0.5 MILES. TURN LEFT AND GO NORTH APPROX. 0.5 MILES TO ROAD SURVEY STAKE. FOLLOW STAKES WEST APPROX. 7109 FEET, THEN SOUTH APPROX. 2571 FEET; THEN WEST APPROX. 1639 FEET; THEN NORTH APPROX. 3519 FEET; THEN WEST APPROX. 720 FEET; THEN SOUTH APPROX. 650 FEET TO THE NORTH EDGE OF THE PAD.

SEC. 1 TWP. 23-S RGE. 33-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 2488' FSL & 380' FWL
ELEVATION 3528'
OPERATOR KAISER-FRANCIS OIL COMPANY
LEASE BELL LAKE UNIT NORTH
U.S.G.S. TOPOGRAPHIC MAP
TIP TOP WELLS, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
TIP TOP WELLS, N.M. - 10'

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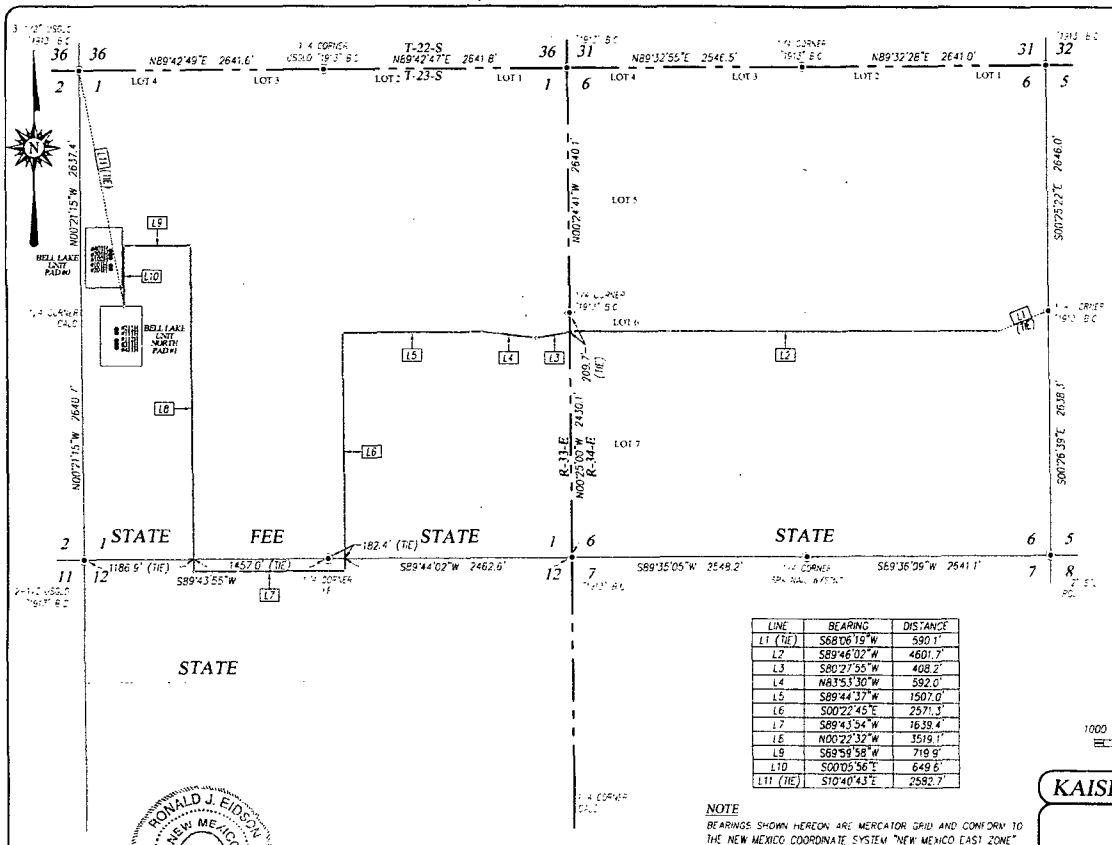


LINE	BEARING	DISTANCE
L1 (TIE)	S68°06'19"W	590.1'
L2	S89°46'02"W	4601.7'
L3	S80°27'55"W	408.2'
L4	N83°53'30"W	592.0'
L5	S89°44'37"W	1507.0'
L6	S00°22'45"E	2571.3'
L7	S89°43'54"W	1639.4'
L8	N00°22'32"W	3519.1'
L9	S89°59'58"W	719.9'
L10	S00°05'56"E	649.6'
L11 (TIE)	S10°40'43"E	2582.7'

DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTIONS 1 & 12, TOWNSHIP 23 SOUTH, RANGE 33 EAST, AND SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT IN THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 6, WHICH LIES S68°06'19"W 590.1 FEET FROM THE EAST QUARTER CORNER OF SAID SECTION 6; THEN S89°46'02"W 4601.7 FEET; THEN S80°27'55"W 408.2 FEET; THEN N83°53'30"W 592.0 FEET; THEN S89°44'37"W 1507.0 FEET, THEN S00°22'45"E 2571.3 FEET; THEN S89°43'54"W 1639.4 FEET, THEN N00°22'32"W 3519.1 FEET, THEN S89°59'58"W 719.9 FEET; THEN S00°05'56"E 649.6 FEET, WHICH LIES S10°40'43"E 2582.7 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 1.

SAID STRIP OF LAND BEING 16,208.2 FEET OR 982.31 RODS IN LENGTH, CONTAINING 11.163 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST:

NE/4 SE/4	46.71 RODS OR	0.531 ACRES
NW/4 SE/4	80.04 RODS OR	0.909 ACRES
NE/4 SW/4	80.04 RODS OR	0.909 ACRES
LOT 6	74.39 RODS OR	0.845 ACRES

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST:

NE/4 SE/4	80.62 RODS OR	0.916 ACRES
NW/4 SE/4	136.70 RODS OR	1.553 ACRES
SW/4 SE/4	80.00 RODS OR	0.909 ACRES
SW/4 SW/4	80.62 RODS OR	0.909 ACRES
NW/4 SW/4	80.62 RODS OR	0.916 ACRES
SW/4 NW/4	126.85 RODS OR	1.441 ACRES

SECTION 12, TOWNSHIP 23 SOUTH, RANGE 33 EAST:

NW/4 NE/4	19.22 RODS OR	0.218 ACRES
NE/4 NW/4	80.05 RODS OR	0.910 ACRES
NW/4 NW/4	16.38 RODS OR	0.186 ACRES

LEGEND

● DENOTES FOUND CORNER AS NOTED

1000 0 1000 2000 Feet

Scale: 1" = 1000'

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON Ronald J. Eidson DATE: 9/14/2017

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240

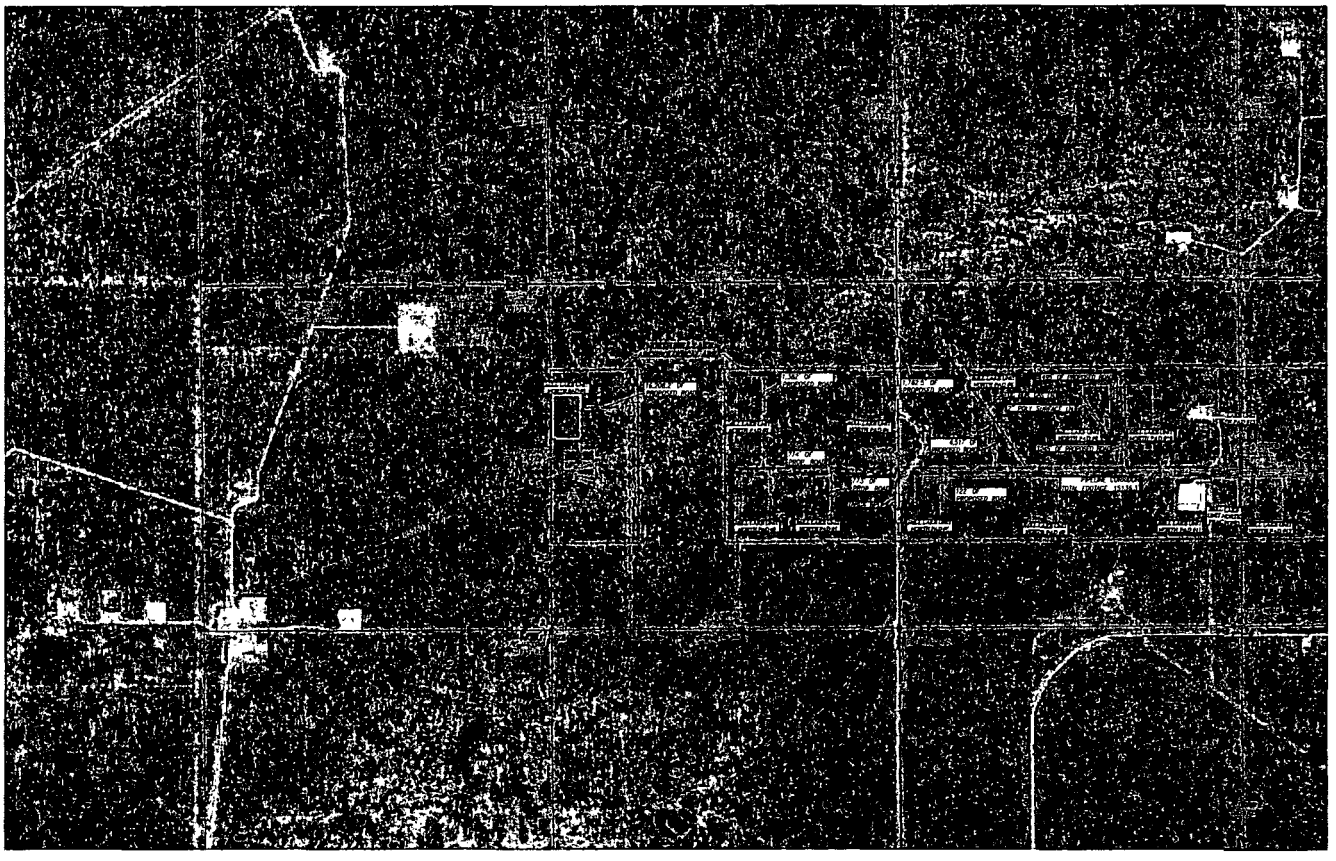
(575) 393-3117 www.jwsc.biz

TBPLS# 10021000

KAISER-FRANCIS OIL COMPANY

SURVEY FOR AN ACCESS ROAD CROSSING SECTIONS 1 & 12, TOWNSHIP 23 SOUTH, RANGE 33 EAST AND SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 8/16/17	CAD Date: 9/12/17	Drawn By: DSS	
W.O. No.: 17110817	Rev:	Rev: W.O.:	Sheet 1 of 1



1000 0 1000 2000 FEET
Scale 1"=1000'

Survey Date:	**Work Order No.:** 17.13.0958
CAD Drafter & Date: ACK 10/06/17	**Revised Date:** 10/09/17

Angelica\2017\KAISER-FRANCIS OIL COMPANY\TOPO\17130958
1 Mile Radius for the Bell Lake Unit North #211H in Sec 1, T23S, R33E

Scale: One Inch = One Thousand Feet **JWSC File No. D-1237**

KAISER-FRANCIS OIL COMPANY

1 MILE RADIUS MAP FOR THE BELL LAKE UNIT NORTH #211H
WELL SITE IN SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

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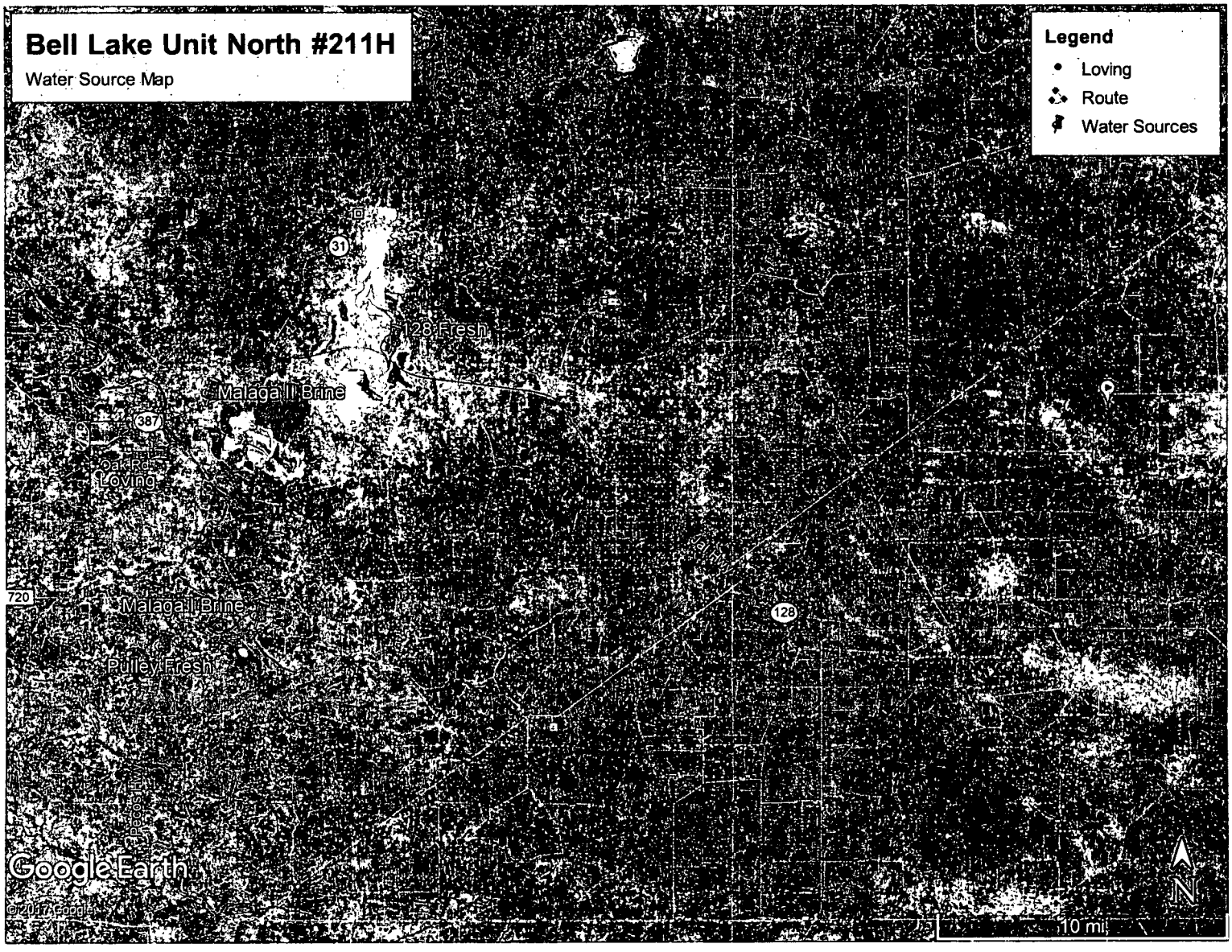
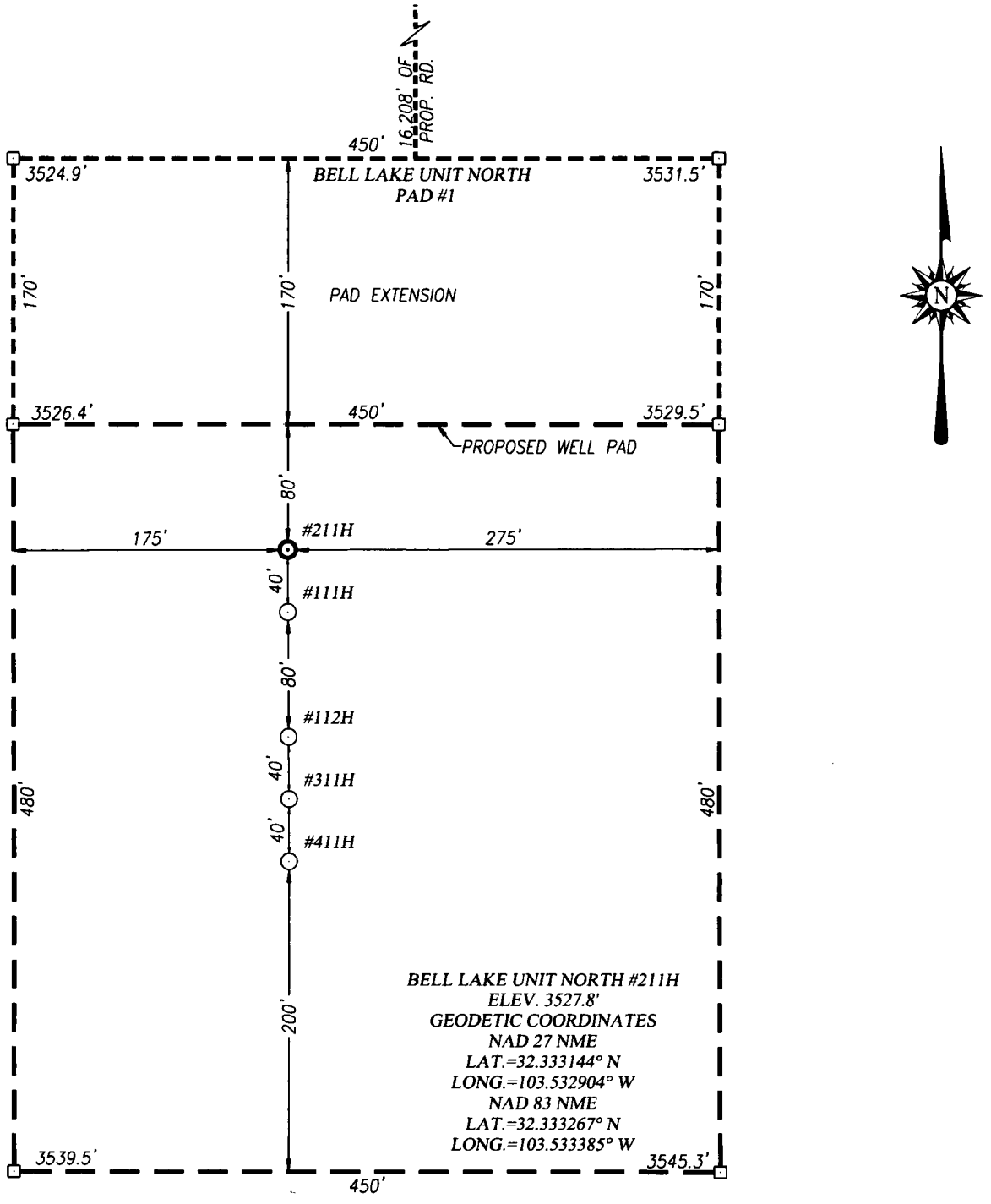
HOBBS, NEW MEXICO 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000


Bell Lake Unit North #211H
Water Source Map
Legend
Loving
Route
Water Sources
31
128 Fresh
Malaga II Brine
387
Oak Farm
Loving
720
Malaga I Brine
Pulley Fresh
128
Google Earth
©2017 Google
10 mi
N

WELL SITE PLAN



NOTE:
SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF CO. RD. 21 (DELAWARE BASIN RD.) AND ST. HWY. 128, GO NORTH ON DELAWARE BASIN RD. FOR APPROX. 7.6 MILES. FOLLOW CURVE AND GO EAST APPROX. 0.5 MILES. TURN LEFT AND GO NORTH APPROX. 0.5 MILES TO ROAD SURVEY STAKE. FOLLOW STAKES WEST APPROX. 7109 FEET, THEN SOUTH APPROX. 2571 FEET; THEN WEST APPROX. 1639 FEET; THEN NORTH APPROX. 3519 FEET; THEN WEST APPROX. 720 FEET; THEN SOUTH APPROX. 650 FEET TO THE NORTH EDGE OF THE PAD.

100 0 100 200 Feet

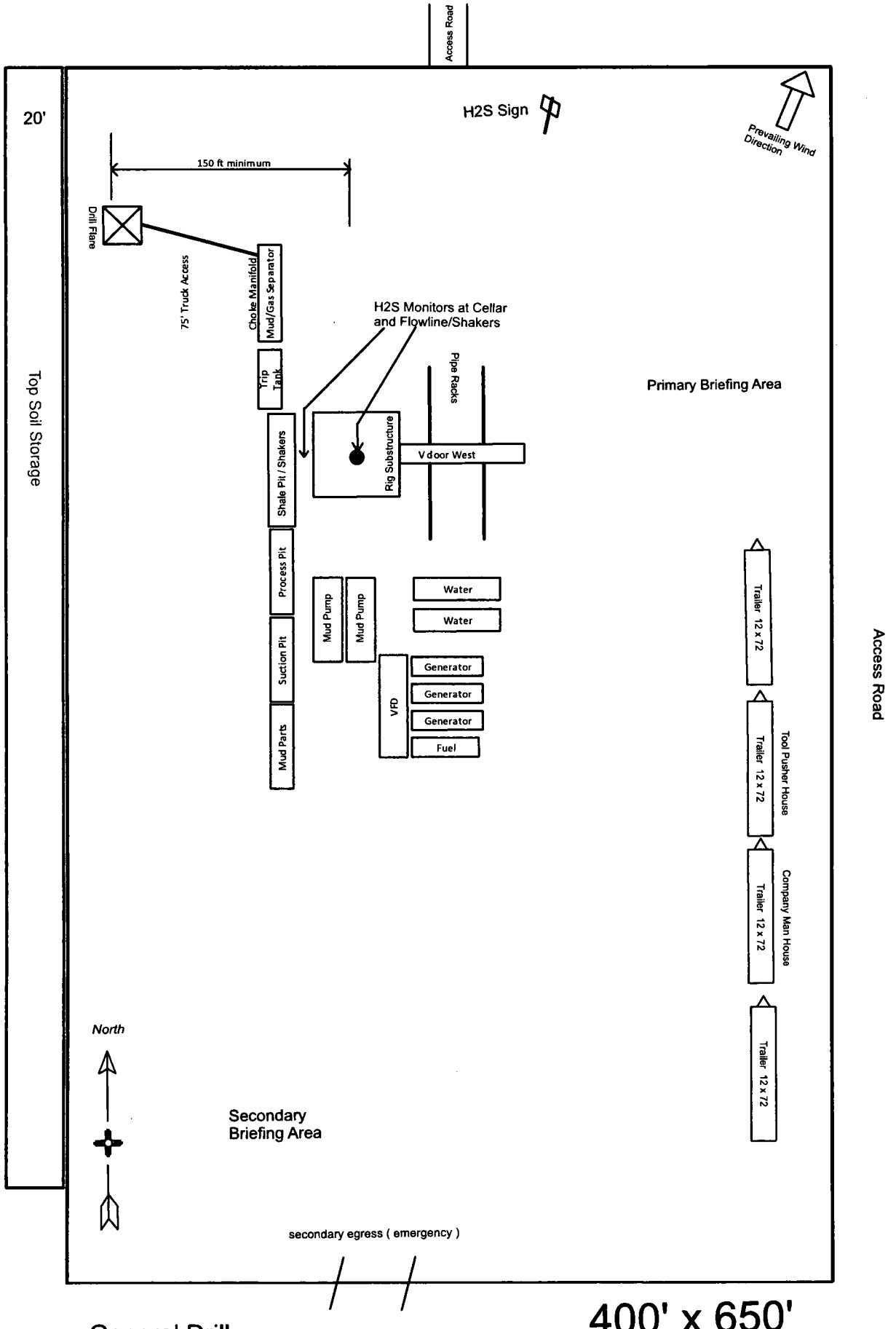
Scale: 1"=100'

KAISER-FRANCIS OIL COMPANY

BELL LAKE UNIT NORTH #211H WELL LOCATED
2488 FEET FROM THE SOUTH LINE AND 380 FEET FROM THE WEST LINE OF SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

Survey Date: 7/21/17	CAD Date: 8/03/17	Drawn By: DSS
W.O. No.: 17130932	Rev: 9/25/17	Rel. W.O.:17110734	Sheet 1 of 1



400' x 650'

General Drill Site Layout

Well: Bell Lake Unit North #211H

Surface Use & Operating Plan

Bell Lake Unit North #211H

- Surface Owner: State of New Mexico
- Grazing Tenant: Mark T. McCloy & Annette E McCloy
- New Road: 16,208' of new road
- Facilities: Production facilities will be installed on well pad

- **Well Site Information**
  V Door: East
  Topsoil: East
  Interim Reclamation: Reclaim 150' on the south and 100' on the east sides of location.

Notes

Onsite: On-site was done by Fernando Banos (BLM); Matt Warner and Melanie Wilson (Kaiser-Francis), Jimmy Harrison (John West Surveying) and Jeff (APAC Archaeology) on July 20, 2017.

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

A. The well site survey and elevation plat for the proposed well is attached with this application. It was staked by John West Surveying, Hobbs, NM.

B. All roads to the location are shown on the Road Map attachment. The existing lease roads are illustrated in red and are adequate for travel during drilling and disposal operations. Upgrading existing roads prior to drilling the well will be done where necessary. Proposed new access road is shown in red dashes on the Road Map attachment and is shown in detail on the Access Road Map attachment.

C. Directions to location: See Wellsite Layout attachment

D. Based on current road maintenance performed on other roads serving existing wells, we anticipate maintaining the lease roads leading to the proposed well pad at least once a year on dry conditions and twice a year in wetter conditions.

2. Proposed Access Road:

The Access Road Map shows that 16,208' of new access road will be required for this location. The access road will be constructed as follows:

The maximum width of the running surface will be 15'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 3' feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

A. The average grade will be less than 2%.

B. No turnouts are planned.

C. No cattleguard, culvert, gates, low water crossings or fence cuts are necessary.

D. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be hauled from BLM caliche pit in SWSW Section 22-T24S-R34E or caliche pit in NENE Section 20-T23S-R33E.

3. Location of Existing Well:

The 1-Mile Radius attachment shows existing wells within a one-mile radius of the proposed wellbore.

4. Location of Existing and/or Proposed Facilities:

A. There are currently no production facilities at this well site.

B. Upon successfully completion of this well, we plan to install a production facility initially consisting of 2-1000 bbl water tanks and 5-1000 bbl oil tanks, a temporary 6x20 horizontal 3-phase separator, a 48" x 10' 3-phase separator, an 8 x 20' heater treater and a 48"x 10' 2-phase separator.

C. Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from the nearest BLM approved caliche pit in SWSW Section 22-T24S-R34E. Alternate source will be the BLM caliche pit in NENE Section 20-T23S-R33E. Any additional construction materials will be purchased from contractors.

D. No power line to this location is planned at this time.

E. If completion of the well is successful, rehabilitation plans will include the following:

- The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from a private source. Fresh water will come from Mesquite SWD, Inc.'s 128 Fresh water well in Section 31-T22S-R30E and the alternate source is Mesquite SWD, Inc.'s Pulley Fresh water well in Section 26-T24S-R28E. Brine water will come from Mesquite SWD, Inc.'s Malaga I Brine Station in Section 12-T23S-R28E and the alternate source is Mesquite SWD, Inc.'s Malaga II Brine Station in Section 20-T24S-R29E. No water well will be drilled on the location.

6. Source of Construction Materials and Location "Turn-Over" Procedure:

Obtaining caliche: One primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

A. Equipment that is needed to construct the proposed location will be as follows: Two dozers to flip the site for caliche and to move topsoil, one blade to level the surface, one morograder to roll and compact this site, one backhoe to dig the cellar, one water truck to water location and dust abatement and two dump trucks to haul surface material. If

caliche is not available onsite and have to haul caliche from a private pit, in addition to equipment mentioned above we will have 10 belly dumps and one front end loader.

B. The time line to complete construction will be approximately 10 days.

C. The top 6 inches of topsoil is pushed off and stockpiled along the south side of the location. Maximum height of the topsoil stock pile will be 3'.

D. An approximate 160' X 160' area is used within the proposed well site to remove caliche.

E. Subsoil is removed and stockpiled within the surveyed well pad.

F. When caliche is found, material will be stock piled within the pad site to build the location and road.

G. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.

H. There will be no interim reclamation. Once well is drilled, the stock piled top soil will be seeded in place.

I. Neither caliche, nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from the BLM caliche pit in Section 22-T24S-R34E or the BLM caliche pit in Section 20-T23S-R33E.

7. Methods of Handling Water Disposal:

A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to R360's disposal site located at 4507 West Carlsbad Highway, Hobbs, NM 88240.

B. Drilling fluids will be contained in steel mud pits and taken to R360's disposal site located at 4507 West Carlsbad Highway, Hobbs, NM 88240.

C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility. R360's disposal site located at 4507 West Carlsbad Highway, Hobbs, NM 88240.

D. It is anticipated that the disposal of produced water will be trucked to Kaiser-Francis Oil Company's North Bell Lake Unit 4-15 SWD located in Section 8 T23S R34E.

E. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill-Lea Landfill LLC. Located at Mile Marker

64, Highway 62-180 East, P O Box 3247, Carlsbad, NM 88221. No toxic waste or hazardous chemicals will be produced by this operation.

F. Human waste and grey water will need to be properly contained and disposed of. Proper disposal and elimination of waste and grey water may include but are not limited to portable septic systems and/or portable waste gathering systems (i.e. portable toilets).

G. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facilities will be built as a result of the operation on this well.

9. Well Site Layout:

A. The drill pad layout, with elevations staked by John West Surveying, is shown in the Wellsite Layout attachment. Dimensions of the pad and pits are shown on the Drilling Site Layout. V door direction is west. Topsoil, if available, will be stockpiled on the east side of location, per BLM specifications. No major cuts will be required. A berm will be constructed on the east side of the pad.

B. The Drilling Site Layout exhibit shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

10. Plans for Restoration of the Surface:

A. Interim Reclamation will take place within six months after the well has been completed. The pad will be downsized by reclaiming the areas not needed for disposal operations. The portions of the pad that are not needed for disposal operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete.

B. Final Reclamation: Upon plugging and abandoning the well all caliche for well pad and lease road will be removed and surface will be recountoured to reflect its surroundings as much as possible within six months. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area

will be re-seeded with a BLM approved mixture and re-vegetated as per BLM orders. When required by BLM, the well pad site will be restored to match pre-construction grades.

11. Surface Ownership:

A. The surface is owned by the State of New Mexico, Commissioner of Public Lands. Grazing tenant is Mark T. McCloy and Annette E. McCloy, PO Box 795, Tatum, NM 88267. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.

B. The proposed road routes and surface location will be restored as directed by the BLM.

12. Other Information:

A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.

B. There is no permanent or live water in the immediate area.

C. There are no dwellings within 2 miles of this location.

D. A Cultural Resources Examination is being prepared by APAC, PO Box 1982, Carlsbad, New Mexico 88221-1982, phone 575-200-7099, and the results will be forwarded to your office in the near future.

13. Bond Coverage:

Bond Coverage is Statewide Bonds # WYB000055.

15. Operator's Representative:

The Kaiser-Francis Oil Company representative responsible for assuring compliance with the surface use plan is as follows:

Robert Sanford
Drilling Engineer
Kaiser-Francis Oil Company
PO Box 21468
Tulsa, OK 74121
Cell: 918-770-2682
Office: 918-491-4201

Matt Warner
Drilling Engineer
Kaiser-Francis Oil Company
PO Box 21468
Tulsa, OK 74121
Cell: 720-556-2313
Office: 918-491-4379

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

Kaiser-Francis Oil Company
P.O. Box 21468
Tulsa, Oklahoma 74121-1468

North Bell Lake Unit Pad #1 Production Facility

September 27, 2017

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112.7(h)	Loading/Unloading Rack – N/A (no rack at this facility)	N/A
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*Only relevant rule provisions are indicated. For a complete list of SPCC requirements, refer to the full text of 40 CFR part 112.

Introduction

The purpose of this Spill Prevention Control and Countermeasure (SPCC) Plan is to describe measures implemented by Kaiser-Francis Oil Company "KFOC" to prevent oil discharges from occurring, and to prepare KFOC to respond in a safe, effective, and timely manner to mitigate the impacts of a discharge from the North Bell Lake Unit Pad #1 production facility. This SPCC Plan has been prepared and implemented in accordance with the SPCC requirements contained in 40 CFR part 112.

In addition to fulfilling requirements of 40 CFR 112, this SPCC Plan is used as a reference for oil storage information and testing records, as a tool to communicate practices on preventing and responding to discharges with KFOC employees and contractors, as a guide on facility inspections, and as a resource during emergency response.

Management Approval

40 CFR 112.7

Kaiser-Francis Oil Company ("KFOC") is committed to maintaining the highest standards for preventing discharges of oil to navigable waters and the environment through the implementation of this SPCC Plan. This SPCC Plan has the full approval of KFOC management. KFOC's management has committed the necessary resources to implement the measures described in this Plan.

The Production Superintendent is the Designated Person Accountable for Oil Spill Prevention at this KFOC facility and has the authority to commit the necessary resources to implement the Plan as described.

Authorized Facility Representative: David Zerger

Signature: _____
Title: Operations Engineer

Date: _____

Professional Engineer Certification

40 CFR 112.3(d)

The undersigned Registered Professional Engineer is familiar with the requirements of Part 112 of Title 40 of the *Code of Federal Regulations* (40 CFR part 112) and has visited and examined the facility, or has supervised examination of the facility by appropriately qualified personnel. The undersigned Registered Professional Engineer attests that this Spill Prevention, Control and Countermeasure Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR part 112; that procedures for required inspections have been established; and that this Plan is adequate for the facility. [112.3(d)]

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR part 112.

_____
Signature

_____
Date

Charles W. Lock
Name of Professional Engineer

16241 - OK
Registration Number/Issuing State

Plan Review
40 CFR 112.5

In accordance with 40 CFR 112.5, Kaiser-Francis Oil Company periodically reviews and evaluates this SPCC Plan for any change in the facility design, construction, operation, or maintenance that materially affects the facility's potential for an oil discharge. KFOC reviews this SPCC Plan at least once every five years. Revisions to the Plan, if any are needed, are made within six months of this five-year review. KFOC will implement any amendment as soon as possible, but not later than six months following preparation of any amendment. A registered PE certifies any technical amendment to the Plan, as described above, in accordance with 40 CFR (112.3(3).

Table 0-1: Record of Plan Review and Changes

MANAGEMENT REVIEW

- Management will review this SPCC Plan at least each five (5) years and document the review on the form below.

Review/ Amend Date	Signature	Amend Plan (will/will not)	Description of Review Amendment	Affected Page(s)	P.E. Certification (Y/N)

Location of SPCC Plan
40 CFR 112.3(e)

In accordance with 40 CFR 112.3(e), and because the facility is normally unmanned, a complete copy of this SPCC Plan is maintained at the Corporate Office, which is located at 6733 S. Yale Avenue, Tulsa, OK.

Certification of Substantial Harm Determination

40 CFR 112.20(e), 40 CFR 112.20(f)(1)

Facility Name: **Kaiser-Francis Oil Company, North Bell Lake Unit Pad #1**

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?
Yes ☐ No ■

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil tank plus sufficient freeboard to allow for precipitation within any aboveground storage tank area?
Yes ☐ No ■

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?
Yes ☐ No ■

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula) such that a discharge from the facility would shut down a public drinking water intake?
Yes ☐ No ■

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?
Yes ☐ No ■

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

_____	EHS Manager
Signature	Title
Charles W. Lock	_____
Name (type or print)	Date

PART I – GENERAL FACILITY INFORMATION

40 CFR 112.7(a)(3)

1.1 Company Information

Name of Facility:	Kaiser-Francis Oil Company North Bell Lake Unit Pad #1
Type	Onshore oil production facility
Location	1-23S-33E Lea County, NM
Name and Address of Owner	Kaiser-Francis Oil Company *Ardmore District Office* Box 197 (Dillard Route) Wilson, OK 73643 *Corporate Office* 6733 S. Yale Avenue Tulsa, OK 74133

1.2 Contact Information

The designated person accountable for overall oil spill prevention and response at the facility, also referred to as the "Response Coordinator" (RC), is the Production Superintendent, Bill Wilkinson. 24 hour contact information is provided in Table 1-1.

The pumper/gauger provides operation support activities for KFOC, including performing informal daily examinations of the facility equipment, as described in Section 3.4 of this SPCC Plan. The pumper regularly visits the facility to record production levels and perform other maintenance/inspection activities as requested by the Kaiser-Francis Operations Engineer. Pumper phone numbers are included in Table 1-1.

Table 1-1: Facility contact information

Name	Title	Telephone
Larry Motes	Pumper	432/238-6996 (cell)
Jeff Pevehouse	Pumper	575/361-2965 (cell)
Bill Wilkinson	Production Superintendent Kaiser-Francis Oil Company Ardmore District	580/668-2335 (office) 580/221-4637 (cell)
David Zerger	Operations Engineer Kaiser-Francis Oil Company Tulsa, OK	918/491-4350 (office)
Charles Lock	EHS Manager Kaiser-Francis Oil Company Tulsa, OK	918/491-4337 (office) 918/671-6510 (cell)

1.3 Facility Layout Diagram

Appendix A, at the end of this Plan, shows a general site plan for the facility. The site plan shows the site topography and the location of the facility relative to waterways, roads, and inhabited areas. Appendix A will also include a detailed facility diagram that shows the wells, tank battery, and transfer areas for the facility. The diagram will show the location, capacity, and contents of all oil storage containers greater than 55 gallons in capacity.

1.4 Facility Location and Operations

KFOC operates the North Bell Lake Unit Pad #1 production facility; directions to the lease are as follows:

From the intersection of County Road 21 (Delaware Basin Rd.) and State Hwy 128, go North on Delaware Basin Road for approx. 7.6 miles. Follow curve and go East approx. 0.5 miles. Turn left and go North approx. 0.5 miles to road survey stake. Follow stakes West approx. 7109 feet, then South approx. 2571 feet, then West approx. 1639 feet; then North approx. 3519 feet; then West approx. 720 feet; then South approx. 650 feet to the North edge of the pad.

The production facility is generally unmanned. Field operations personnel from KFOC, or pumpers acting as contractors to KFOC visit the facility daily to record production rates and ensure the proper functioning of wellhead equipment and pumpjacks, storage tanks, flowlines, and separation vessels. This includes performing equipment inspection and maintenance as needed.

The produced water tank may contain an oil/produced water mixture making it subject to 40 CFR part 112 and is covered by this SPCC Plan.

1.5 Oil Storage and Handling

1.5.1 Production Equipment

All oil storage tanks are shop-built and meet the American Petroleum Institute (API) tank construction standard. Their design and construction are compatible with the oil they contain and the temperature and pressure conditions of storage.

Lubricating oil and other substances, such as solvents and chemicals for downhole treatment, are also sometimes stored at the facility, but in quantities below the 55-gallon threshold for SPCC applicability. Table 1-2 lists all oil containers present at the facility with capacity of 55 gallons or more.

Table 1-2: Characteristics of oil containers

ID	Construction	Primary Content	Capacity (barrels)	Capacity (gallons)
		TOTAL		

1.5.2 Transfer Activities

Wells produce crude oil, produced water (saltwater), and natural gas. Well liquids are then routed via steel flowlines to a separation vessel. Produced saltwater is routed from the separator to the saltwater storage tank. The crude oil is sent to the oil storage tanks.

Crude oil from the lease is purchased by a crude oil purchaser and transported from the facility by the purchaser's tanker truck. Tanker trucks come to the facility to transfer crude oil and produced water, but do not remain at the facility. Sorbent materials in conjunction with drip pans are used to contain spills. All transfer operations are attended by the trucker and meet the minimum requirements of the US Department of Transportation Hazardous Materials Regulations.

1.6 Conformance w/Applicable State and Local Requirements [112.7(j)]

The SPCC regulation of 40 CFR part 112 is more stringent than requirements from the state for this type of facility. This SPCC Plan was written to conform to 40 CFR part 112 requirements. The facility thereby conforms to general requirements for oil pollution facilities in the state. All discharge notifications are made in compliance with local, state, and federal requirements.

PART II. SPILL RESPONSE AND REPORTING
40 CFR 112.7

2.1 Discharge Discovery and Reporting [112.7(a)(3)]

Several individuals and organizations must be contacted in the event of an oil discharge. The Production Superintendent is responsible for ensuring that all required discharge notifications have been made. All discharges should be reported to the Production Superintendent. The summary table included in Appendix D to this SPCC Plan provides a list of agencies to be contacted under different circumstances. Discharges would typically be discovered during the inspections conducted at the facility in accordance with procedures set forth in Section 3.4.1 of this SPCC Plan, and on the checklist of Appendix B. The Form included in Appendix D of this Plan summarizes the information that must be provided when reporting a discharge, including contact lists and phone numbers.

2.1.1 Verbal Notification Requirements (Local, State, and Federal (40 CFR part 110))

For any discharge that reaches navigable waters, or threatens to reach navigable waters, *immediate* notification must be made to the National Response Center Hotline (800-424-8802) and to the Environmental Protection Agency.

In the event of a discharge that threatens to result in an emergency condition, facility field personnel must verbally notify the appropriate state agency immediately, and in no case later than *within one (1) hour* of the discovery of the discharge. An emergency condition is any condition that could reasonably be expected to endanger the health and safety of the public; cause significant adverse impact to the land, water, or air environment; or cause severe damage to property. This notification must be made regardless of the amount of the discharge.

In the event of a discharge that does not present an emergency situation, verbal notification must be made to the appropriate state agency *within twenty-four hours* of the discharge.

2.1.2 Written Notification Requirements (State and Federal (40 CFR part 112))

A written notification will be made to EPA for any single discharge of oil to a navigable water or adjoining shoreline waterway of more than 1,000 gallons, or for two discharges of 1 bbl (42 gallons) of oil to a waterway in any 12-month period. This written notification must be made within 60 days of the qualifying discharge, and a copy will be sent to the appropriate state agency in charge of oil production control activities. This reporting requirement is separate and in addition to reporting under 40 CFR part 110 discussed above.

2.1.3 Submission of SPCC Information

Whenever the facility experiences a discharge into navigable waters of more than 1,000 gallons, or two discharges of 42 gallons or more within a 12-month period, KFOC will provide information in writing to the EPA Region office within 60 days of a qualifying discharge as described above. The required information is described in Appendix D of this SPCC Plan.

2.2 Spill Mitigation Procedures [112.7(a)(5)]

The following is a summary of actions that must be taken in the event of a discharge. It summarizes the distribution of responsibilities among individuals and describes procedures to follow in the event of a discharge.

In the event of a discharge, KFOC or contract field personnel and the Production Superintendent shall be responsible for the following:

2.2.1 Shut off Ignition Sources

Field personnel must shut off all ignition sources, including motors, electrical circuits, and open flames. See Appendix E for more information about shut-off procedures.

2.2.2 Stop Oil Flow

Field personnel should determine the source of the discharge, and if safe to do so, immediately shut off the source of the discharge. Shut in the well(s) if necessary.

2.2.3 Stop Spread of Oil and Call the Production Superintendent

If safe to do so, field personnel must use resources available at the facility to stop the spilled material from spreading. Measures that may be implemented, depending on the location and size of the discharge, include placing sorbent material or other barriers in the path of the discharge (e.g., sand bags), or constructing earthen berms or trenches.

In the event of a significant discharge, field personnel must immediately contact the Production Superintendent, who may obtain assistance from authorized company contractors and direct the response and cleanup activities. Should a discharge reach navigable waters, only physical response and countermeasures should be employed, such as the construction of underflow dams, installation of hard boom and sorbent boom, use of sorbent pads, and use of vacuum trucks to recover oil and oily water from the water. If water flow is low, construction of any underflow dam downstream and ahead of the spill flow may be advantageous. Sorbent material and/or boom should be placed immediately downstream of the dam to recover any sheen from the water. If water flow is normal, floating booms and sorbent boom will be deployed. Vacuum trucks will then be utilized to remove oil and oily water at dams and other access points. At no time shall any surfactants, dispersants, or other chemicals be used to remove oil when the spill is in water.

2.2.4 Gather Spill Information

The Production Superintendent will ensure that the *Discharge Notification Form* is filled out and that notifications have been made to the appropriate authorities. The Production Superintendent may ask for assistance in gathering the spill information on the *Spill Report Form* (Appendix D) of this Plan.

2.2.5 Notify Agencies Verbally

Some notifications must be completed *immediately* upon discovering the discharge. It is important to immediately contact the Production Superintendent so that timely notifications can be made. If the Production Superintendent is not available, or the Production Superintendent requests it, field personnel must designate one person to begin notification. Section 2.1 of this Plan describes the required notifications to government agencies. The Notification List is included in Appendix D of this SPCC Plan. The Production Superintendent must also ensure that written notifications, if needed, are submitted to the appropriate agencies.

2.3 Disposal Plan

The cleanup contractor will handle the disposal of any recovered product, contaminated soil, contaminated materials and equipment, decontamination solutions, sorbents, and spent chemicals collected during a response to a discharge incident.

PART III. SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PROVISIONS
40 CFR 112.7 and 112.9

3.1 Potential Discharge Volume and Direction of Flow [112.7(b)] and Containment [112.7(a)(3)(iii)]

- The potential spills sources at the Facility are summarized in the following table:

Container ID	Substance Stored *(Oil)*	Shell Capacity *(Bbls)*	Potential Failure	Rate of Flow *(Bbls/hr)*	Direction of Flow	Containment System(s)
Bulk Storage Containers						
Operational Equipment						
Truck or Rail Loading/Unloading Rack						
Other Potential Spill Sources						

- The material and construction of bulk storage containers are compatible with the material stored and conditions of storage such as pressure and temperature.
- All bulk storage container installations, if required, are constructed so that a means of secondary containment is provided for the entire capacity of the largest single container plus sufficient freeboard to contain precipitation.
- Diked areas are sufficiently impervious to contain discharged oil.

3.2 Containment and Diversionary Structures [112.7(c)]

The facility is configured to minimize the likelihood of a discharge reaching navigable waters. The following measures are provided:

- Secondary containment for the oil storage tanks and saltwater tanks (which may have small amounts of oil), is provided by an earthen berm or metal containment ring, as described in Section 3.2.2 below. The earthen berm is constructed of native soils and then covered with gravel.

3.2.1 Oil Production Facility Drainage [112.9(b)]

Facility drainage areas in the production/separation area, but outside containment berms, are visually examined by facility personnel on a daily basis during routine facility rounds to detect any discoloration or staining that would indicate the presence of oil from small leaks within the facility. Any accumulation of oil is promptly removed and disposed off site.

3.2.2 Secondary Containment for Bulk Storage Containers [112.9(c)(2)]

In order to further minimize the potential for a discharge to navigable waters, bulk storage containers such as all tank battery, separation, and treating equipment are placed inside a berm (fire wall). It provides secondary containment sufficient for the size of the largest tank, plus enough freeboard to contain precipitation. Per example below: This secondary containment capacity is equivalent to approximately 775 percent of the capacity of the largest tank within the containment area and exceeds the 10 percent freeboard recommended by API for firewalls around production tanks (API-12R1). An example of the berm capacity calculations is provided in Table 3-2.

EXAMPLE Table 3-2: BERM CAPACITY CALCULATIONS

BERM CAPACITY	
Berm height	3 ft
Berm dimensions	140 ft x 50 ft = 7000 ft^2
Tank footprint	6 tanks @ 16 ft dia. each = 6 x (π $16^2/4$) = 1198.69 ft^2
Net volume	3 ft x (7000-1198.69) = 17403.93 ft^3
Ratio to largest tank	17403.93 /2245.84 = 774.94 %
CORRESPONDING AMOUNT OF FREEBOARD	
100% volume of largest tank	16800 gal = 2245.84 ft^3
Net area	7000 – 1198.69 = 5801.31 ft^2
Minimum berm height for 100% of tank volume	2245.84 / 5801.31 ft = 0.38 ft
Freeboard	3 - 0.38 = 2.62 ft

Facility personnel inspect the berm daily for the presence of oil. The sides of the earthen berms are capped with gravel to minimize erosion.

3.2.3 Practicability of Secondary Containment [112.7(d)]

Flowlines adjacent to the production equipment and storage tanks are located within the berm, and therefore have secondary containment. Flowlines that go from the wells to the production equipment as well as the tank truck loading area are inspected daily by the pumper, as described in section 3.4 of this Plan. The installation of double-wall piping, berms, or other permanent structures (e.g., remote impoundment) around flowlines and tank truck loading area are impracticable at this facility due to the long distances involved and physical and road/fenceline right-of-way constraints. Sorbent materials in conjunction with drip pans provide adequate secondary containment for equipment and piping outside of the berm. Therefore, sorbent materials will be used when necessary.

3.3 Other Spill Prevention Measures

3.3.1 Bulk Storage Containers Overflow Prevention [112.9(c)(4)]

The tank battery is designed with a fail-safety system to prevent discharge, as follows:

- The capacity of the oil storage tanks is sufficient to ensure that oil storage is adequate in the event where facility personnel are unable to perform the daily visit to unload the tanks or the pumper is delayed in stopping production. The oil tanks are sized to provide sufficient storage for at least two days.
- Where applicable when multiple oil tanks are present the tanks are connected with overflow equalizing lines to ensure the full tank can overflow to an adjacent tank.

3.3.2 Transfer Operations and Saltwater Disposal System [112.9(d)]

All aboveground valves and piping associated with transfer operations are inspected daily by the pumper and/or truck driver, as described in Section 3.4 of this Plan. The inspection procedure includes observing flange joints, valve glands and bodies, drip pans, and pipe supports.

3.4 Inspections, Tests, and Records [112.7(e)]

This Plan outlines procedures for inspecting the facility equipment in accordance with SPCC requirements. Records of inspections performed as described in this Plan and signed by the appropriate supervisor are maintained at the Tulsa Corporate Office for a minimum of three years. The reports include a description of the inspection procedure, date of inspection and the inspector's signature.

Each container is inspected monthly by field operation personnel as described in this Plan section and following the checklist provided in Appendix B of this SPCC Plan. The inspection is aimed at identifying signs of deterioration and maintenance needs.

The inspection program is comprised of informal daily examinations, monthly scheduled inspections, and periodic condition inspections. Additional inspections and/or examinations are performed whenever an operation alert, malfunction, shell or deck leak, or potential bottom leak is reported following a scheduled examination. Written examination/inspection procedures and monthly examination/inspection reports are signed by the field inspector and are maintained at the corporate office for a period of at least three years.

3.4.1 Daily Examinations

The facility is visited daily by field operations personnel. The daily visual examination consists of a walk through of the tank battery and around the well. Field operations personnel check the wells and production equipment for leaks and proper operation. They examine all aboveground valves, polished rod stuffing boxes, wellheads, fittings, gauges, and flowline piping at the wellhead. Personnel inspect pumps to verify proper function and check for damage and leakage. They look for accumulation of water within the tank battery berms. The storage tanks are gauged every day. A daily production report is maintained. All malfunctions, improper operation of equipment, evidence of leakage, stained or discolored soil, etc. are logged and communicated to the KFOC Production Superintendent.

3.4.2 Monthly Reports

Leases and equipment are inspected daily. Any problems with the lease or equipment are recorded on the Monthly Inspection Report (Appendix B) and submitted with the gauge report for each month.

3.4.3 Brittle Fracture Evaluation [112.7(i)]

At the present time, none of the bulk storage containers at this site are field-erected, and therefore no brittle fracture evaluation is required.

3.4.4 Flowline Maintenance Program [112.9(d)(3)]

The facility is relying on sorbent materials to address discharges from flowlines. The flowline maintenance program is specifically implemented to maintain the integrity of the primary container (in this case piping) to minimize releases of oil from this part of the production facility. The facility's gathering lines and flowlines are inspected for leaks at connections and on each joint, corrosion (pitting, flaking), and maintained to minimize the potential for a discharge.

3.5 Personnel Training, and Discharge Prevention Procedures [112.7(f)]

The Production Superintendent has been designated as the point of contact for all oil discharge prevention and response at this facility.

All KFOC field personnel receive training on proper handling of oil products and procedures to respond to an oil discharge. The training ensures that all facility personnel understand the procedures described in the SPCC Plan and are informed of the requirements under applicable pollution control laws, rules and regulations. The training also covers risks associated with potential exposure to hydrogen sulfide (H2S) gas.

KFOC ensures that all contractor personnel are familiar with the facility operations, and spill prevention and control procedures described in this Plan.

KFOC management holds briefings with company field operations personnel at least once a year, as described below.

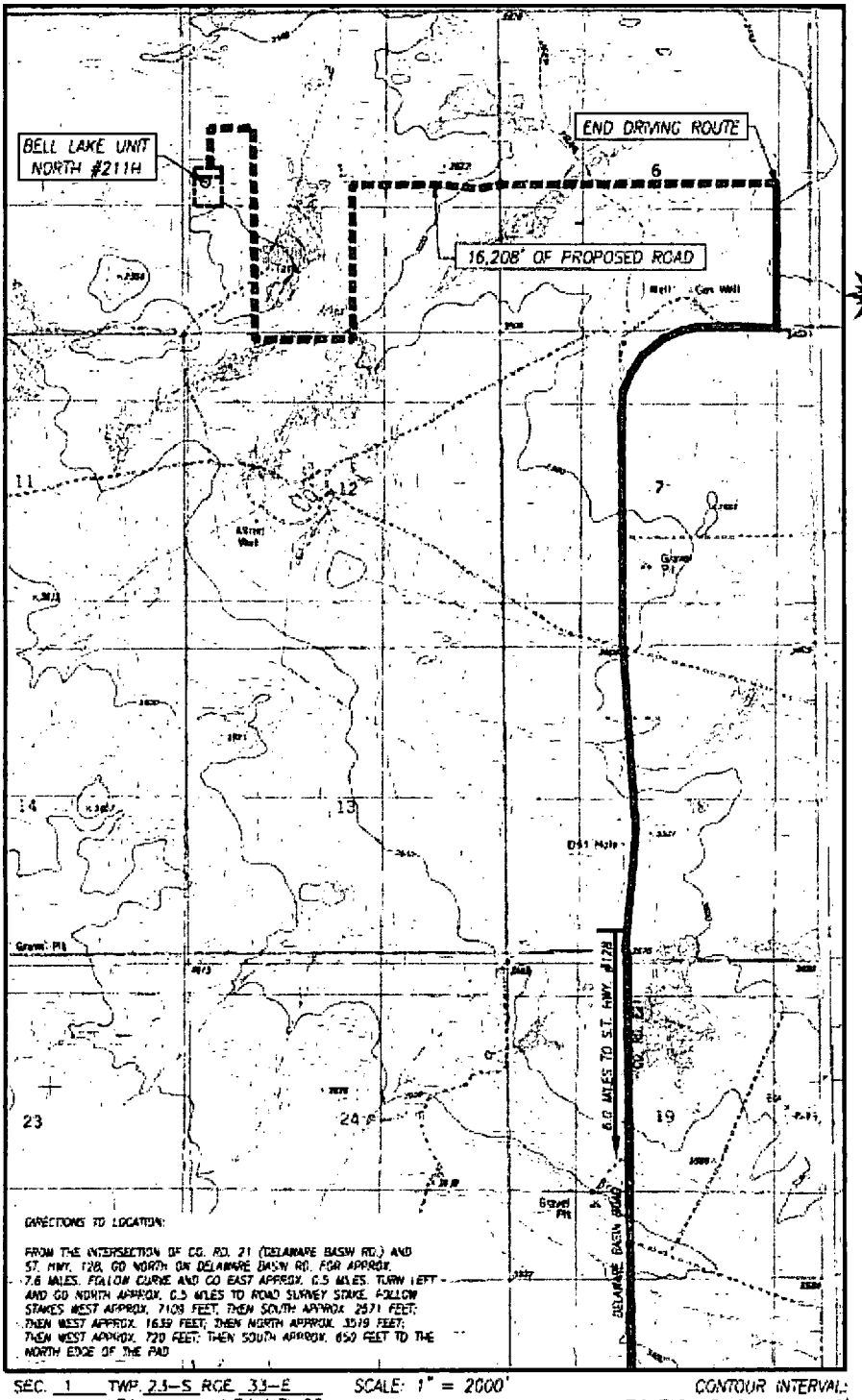
3.5.1 Spill Prevention Briefing

The Safety & Environmental Coordinator conducts Spill Prevention Briefings annually to ensure adequate understanding and effective implementation of this SPCC Plan. These briefings highlight and describe known events or failures, malfunctioning components, and recently developed precautionary measures. The briefings are conducted in conjunction with the company safety meetings. Sign-in sheets, which include the topics of discussion at each meeting, are maintained in the Safety Department at KFOC's Corporate Office. The scheduled annual briefing includes a review of KFOC policies and procedures for SPCC inspections and spill prevention procedures; spill reporting procedures; spill response; and recovery, disposal, and treatment of spilled material.

Personnel are instructed in applicable federal, state, and local pollution laws, rules, and regulations. Facility operators and other personnel have an opportunity during the briefings to share recommendations concerning health, safety, and environmental issues encountered during facility operations.

APPENDIX A: Facility Diagrams/ Vicinity / Road

TOPOGRAPHIC AND ACCESS ROAD MAP



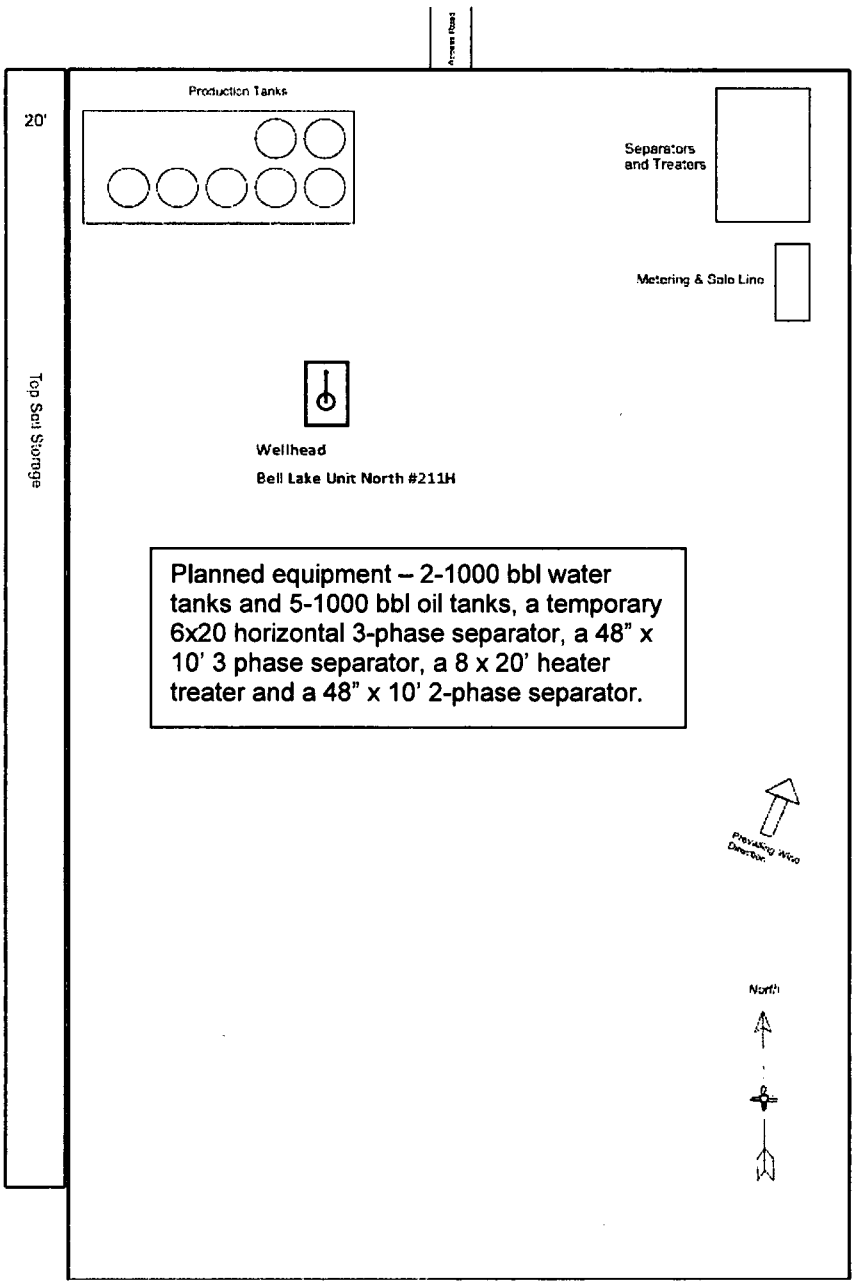
SEC. 1 TWP. 23-S RGE. 33-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 248' FSL & 380' FWL
ELEVATION 3528'
OPERATOR KAISER-FRANCIS OIL COMPANY
LEASE BELL LAKE UNIT NORTH
U.S.G.S. TOPOGRAPHIC MAP
TIP TOP WELLS, N.M. SURVEY N.M.P.M.

SCALE: 1" = 2000'

CONTOUR INTERVAL:
TIP TOP WELLS, N.M. - 10'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117
TEPLS# 10021050

PLANNED SITE DIAGRAM FOR COMPLETED TANK BATTERY



General Production Site Layout

400' x 650'

Well: Bell Lake Unit North #211H

APPENDIX B: Monthly Inspection Report

A record of the completed checklists, with signatures, is maintained at the Tulsa KFOC office. Inspections are conducted using the following checklist in accordance with section 3.4 of this SPCC plan.

SPCC Inspection Checklist			
Pumper:	**District:**		
Facility ID:			
Storage Areas and Separation Equipment	**Y**	**N**	**Description & Comments (Note tank/equipment ID)**
Tank surfaces showing signs of leakage			
Tanks showing signs of damage, rust or deterioration			
Damaged bolts, rivets or seams			
Deteriorated or buckled aboveground tank supports			
Eroded or settled Aboveground tank foundations			
Leaking gaskets			
Level gauges or alarms that are inoperative			
Obstructed vents			
Thief hatch and vent valve does not seal air tight			
Damaged or missing nets on open top vessels			
Containment berm showing discoloration or stains			
Berm that is breached or eroded or has vegetation			
Trash or vegetation inside of berm area			
Missing equipment guards, labels or signs			
Piping/Flowlines and Related Equipment			
Leaking valve seals or gaskets			
Damaged or deteriorated Pipelines or supports			
Buried pipelines that are exposed			
Visible line leaks			
Transfer Equipment			
Damaged or deteriorated loading/unloading lines			
Connections are not capped or blank-flanged			
Secondary Containment is damaged or stained			
Field drainage systems			
Accumulation of oil in drainage ditches or road ditches			
Accumulation of oil in oil traps, sumps, or skimmers			
If yes, you must promptly remove any accumulations of oil			
Response Kit Inventory:			
Discharge response material is missing or damaged or needs replaced			
Signature:	**Date:**		

Monthly Inspection Report

A detailed description of what to inspect is provided on page one of the Checklist

District: _____ Pumper: _____

Facility ID	Problems with Storage tanks & Separation Equipment		Problems with Piping/Flowlines & Related Equipment		Problems with Transfer Equipment		Description & Comments (Note tank/equipment ID)
	Y	N	Y	N	Y	N	

Please make sure all open top vessels are properly netted and the net is not damaged or deteriorated.

Further descriptions and comments, if needed, should be provided on the empty space at the bottom of this page or on a separate sheet of paper and attached to this page. Any item answered "Yes" needs to be promptly reported, repaired, or replaced as it may result in noncompliance with regulatory requirements.

Note: Leases and equipment should be inspected daily. Record any problems on this form and submit it monthly with your gauge report.

Date:_____ Signature:_____

APPENDIX C: Record of Dike Drainage

This record must be completed when rainwater from diked areas is drained into a storm drain or into an open watercourse, lake, or pond, and bypasses the water treatment system. The facility is not equipped with a manual valve of open-and–closed design. All water accumulated within the berm is closely inspected by field operations personnel (who are the persons providing "responsible supervision") to ensure that no free oil is present (i.e. there is no sheen or discoloration upon the surface, or a sludge or emulsion deposit beneath the surface of the water). Free oil is promptly removed and disposed of in accordance with waste regulations.

Date	Area	Presence of oil (y/n)	Time started	Time Finished	Signature

APPENDIX D: Discharge Notification Procedures

- **WHEN REPORTING A DISCHARGE PROVIDE THE FOLLOWING INFORMATION**:
  Exact location;
  Material involved;
  Quantity involved;
  Topographical and environmental conditions;
  Circumstances that may hinder response; and
  Injuries, if any.

- **WARN PERSONNEL.** All personnel on facility will be verbally warned of the oil spill. If an explosion or fire occurs, evacuate personnel from the area until the danger is over.

- **REQUEST ADDITIONAL RESOURCES.** If oil has reached water or could reach water, facility personnel will decide whether the available onsite containment materials are sufficient to contain the spill. If it is estimated that additional materials will be necessary, an Oil Spill Removal Organization will be contacted at this time. An estimate of the amount of oil released shall be relayed to the Oil Spill Removal Organization.

- **CONTAIN THE SPILLED OIL.** Facility personnel will attempt to prevent the spilled oil from spreading. Available containment material will be deployed.

- **GATHER INFORMATION.** Information on the spill will be collected and the "Spill Notification Form" will be completed.

- **MAKE NOTIFICATIONS.** Facility personnel will contact Company Management. Information on the spill along with actions taken will be relayed to Company Management and Company Management will make all necessary notifications. If Company Management is not available facility personnel will make the notifications.

- **CLEAN UP THE SPILLED OIL.** Once the spill is contained to the maximum extent possible, available supplies will be used to proceed with cleanup of the spill. An Oil Spill Removal Organization will be mobilized as required.

- **SPILL RESPONSE.** If immediate cleanup is not considered to be an appropriate remedial measure, the operator will notify the proper agency and give an alternative remedial plan and will promptly implement said plan upon approval.

Spill Report Form

Description of Discharge		
Date/time	Release date: Release time: Duration:	Discovery date: Discovery time:
Reporting Individual	Name:	Tel. #:
Location of discharge (Quarter, Block, Section, Survey, etc.)	County: State:	Description:
Surface Owner	Description of area: ❑ Farming ❑ Grazing ❑ Urban	
Equipment Sources Product	❑ Piping ❑ Flowline ❑ Well ❑ Stock, flare ❑ Unknown ❑ Crude oil ❑ Saltwater ❑ Other*	Description: Equipment ID: *Description other:
Appearance and description of area	❑ Sandy ❑ Sandy Loam ❑ Clay ❑ Rocky ❑ Wet ❑ Dry ❑ Snow	
Environmental conditions	Wind Direction: Wind Speed:	Rainfall: Current:
Site Drainage direction Distance to nearest navigable water		

Impacts		
Quantity	Released:	Recovered:
Receiving Medium	❑ Water** ❑ Land ❑ Other (describe):	❑ Release confined to company property. ❑ Release outside company property ** if water, indicate extent and body of water:
Describe Circumstances of the Release		
Assessment of impacts and remedial actions		
Disposal method for recovered material		
Action taken to prevent incident from reoccurring		
Safety Issues	❑ Fire ❑ Explosion ❑ Injuries ❑ Fatalities ❑ Evacuation ❑ *Other	*Description of other:

Notifications		
Agency	Name	Date/time reported & Comments
Company Spill Response Coordinator	Charles W. Lock (918)491-4337	
National Response Center 1-800-424-8802		
OSRO/cleanup contractor		

Contact List and Phone Numbers

Contact information for reporting a discharge to the National Response Center and other federal, state, and local agencies, and to other affected parties, is provided below. Note that any discharge to water must be reported immediately to the National Response Center.

The following is a contact list and phone number reference for the Facility:

Contacts	Primary	Alternate
Designated Person Accountable For Oil Spill Prevention and/or Facility Response Coordinator		
Name/Title: Larry Motes/Pumper	432/238-6996	
Name/Title: Jeff Pevehouse/Pumper	575/361-2965	
Name/Title: Jeremy Parent/Prod. Foreman	580/504-2593	580/668-2334
Name/Title: Bill Wilkinson/Prod. Superintendent	580/221-4637	
Name/Title: David Zerger/Operations Engineer	918/491-4350	918/671-6510
Name/Title: Charles Lock/EHS Manager	918/491-4337	

Contact List and Phone Numbers

The following is a contact list and phone number reference for the Facility:

Contacts	Primary	Alternate (Cell)
Cleanup Contractors (as necessary):		
Dozers – B&R Trucking – Carlsbad	575/236-6012	
Vacuum & Tank Trucks – Parker Energy – Eunice	575/394-0444	
Misc. Trucks & Labor – J&A Oilfield Svcs.	575/208-9653	
Pump Trucks – Parker Energy – Eunice	575/394-0444	
Frac Tanks – EOS – Hobbs	575/397-0100	
Welder – Custom Welding – Hobbs	575/393-5904	
Federal, State and local agencies (as necessary)		
National Response Center	(800) 424-8802	(202) 267-2675
NMOCC – Hobbs	505/393-6161	
EPA Region 6	866/372-7745	
OSHA – Lubbock	806/472-7681	800/321-OSHA
Other contact references:		
Fire Fighting – Hobbs	575/397-9308	
Police – Hobbs	575/397-9265	
Ambulance – Hobbs	575/397-9308	
Sheriff – Hobbs	575/393-2515	
Highway Patrol – Hobbs	575/392-5588	

APPENDIX E: Equipment Shut-off Procedures

Source	Action
Manifold, transfer pumps or hose failure	Shut in the well supplying oil to the tank battery if appropriate. Immediately close the header/manifold or appropriate valve(s). Shut off transfer pumps.
Tank overflow	Shut in the well supplying oil to the tank battery. Close header/manifold or appropriate valve(s).
Tank failure	Shut in the well supplying oil to the tank battery. Close inlet valve to the storage tanks.
Flowline rupture	Shut in the well supplying oil to the flowline. Immediately close the nearest valve to stop the flow of oil to the leaking section.
Flowline leak	Shut in the well supplying oil to the flowline. Immediately close the nearest valve to stop the flow of oil to the leaking section.
Explosion or fire	Immediately evacuate personnel from the area until the danger is over. Immediately shut in both wells if safe to do so. If possible, close all manifold valves. If the fire is small enough such that it is safe to do so, attempt to extinguish if extinguisher is available.
Equipment failure	Immediately close the nearest valve to stop the flow of oil into the leaking area.

APPENDIX F: Written Commitment of Manpower, Equipment, and Materials

In addition to implementing the preventive measures described in this Plan, Kaiser-Francis Oil Company will also:

In the event of a discharge:

- Make available trained field personnel to perform response actions
- Obtain assistance from additional employees from its main operations contractor.
- Collaborate with local, state, and federal authorities on response and cleanup operations.

Maintain all on-site oil spill control equipment described in this Plan and in the attached Oil Spill Contingency Plan.

Maintain all communications equipment in operating condition at all times.

Ensure that staging areas are accessible by field vehicles.

Review the adequacy of on-site and third party response capacity with pre-established response/cleanup contractors.

Maintain formal agreements/contracts with response and cleanup contractors who will provide assistance in responding to an oil discharge and/or completing cleanup.

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

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?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

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

08/09/2018

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:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 211H

	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
PPP Leg #1	0	FSL	350	FWL	22S	33E	36	Aliquot SWSW	32.340929	-103.533419	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7172	13300	10700
EXIT Leg #1	330	FNL	350	FWL	22S	33E	36	Aliquot NWNW	32.354543	-103.533507	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7172	18528	10700
BHL Leg #1	330	FNL	350	FWL	22S	33E	36	Aliquot NWNW	32.354543	-103.533507	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7172	18528	10700

GATES E & S NORTH AMERICA, INC.
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: 281-602-4119
FAX:
EMAIL: Troy.Schmidt@gat
WEB: www.gates.com

10K ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/3/2017
Customer Ref. :	4086301	Hose Serial No.:	H-100317-2
Invoice No. :	508588	Created By:	Irene Pizana

Product Description:	10K3.035.0CM4.1/16FLGE/E

End Fitting 1 :	4 -1/16 10K FLANGE - FIXED	End Fitting 2 :	4 -1/16 10K FLANGE - FLOATING
Gates Part No. :	68603010-9710398	Assembly Code :	L39789092117H-100317-2
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Section 9.7.7 and Table 10 of API 7K, Sixth Edition (December 2015).

Quality:	QUALITY	Produciton:	PRODUCTION
Date :	10/3/2017	Date :	10/3/2017
Signature :		Signature :	

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