

OCD - HOBBS
10/07/2020
RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|---|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMLC0068387 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 7. If Unit or CA Agreement, Name and No. BELL LAKE / NMNM 068292X |
| 2. Name of Operator KAISER FRANCIS OIL COMPANY [12361] | | 8. Lease Name and Well No. BELL LAKE UNIT NORTH [316707] 423H |
| 3a. Address 6733 S. Yale Ave., Tulsa, OK 74121 | 3b. Phone No. (include area code) (918) 491-0000 | 9. API Well No. 30-025-47851 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESE / 1992 FSL / 1270 FEL / LAT 32.3318744 / LONG -103.5216159 At proposed prod. zone NWNE / 330 FNL / 1410 FEL / LAT 32.3545179 / LONG -103.5220822 | | 10. Field and Pool, or Exploratory [98265] OJO CHISO/WOLFCAMP, SOUTHWEST |
| 14. Distance in miles and direction from nearest town or post office* 20 miles | | 11. Sec., T, R, M, or Blk. and Survey or Area SEC 1/T23S/R33E/NMP |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 648 feet | 16. No of acres in lease 315.57 | 17. Spacing Unit dedicated to this well 480.0 |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet | 19. Proposed Depth 11957 feet / 19953 feet | 20. BLM/BIA Bond No. in file FED: WYB000055 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3508 feet | 22. Approximate date work will start* 03/01/2020 | 23. Estimated duration 40 days |
| 24. Attachments | | |

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

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

| | | |
|--|---|--------------------|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) STORMI DAVIS / Ph: (918) 491-0000 | Date 10/18/2019 |
| Title Regulatory Analyst | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959 | Date 09/29/2020 |
| Title Assistant Field Manager Lands & Minerals Carlsbad Field Office | | |

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

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

GCP Rec 10/07/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS
Approval Date: 09/29/2020

KZ
10/19/2020

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

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

Is the proposed well in a Helium production area? N

Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 5

Well Class: HORIZONTAL

NORTH BELL LAKE UNIT

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 20 Miles

Distance to nearest well: 30 FT

Distance to lease line: 648 FT

Reservoir well spacing assigned across Measurement: 480 Acres

Well plat: BLUN_423H_C102_20191015163635.pdf

Pay.gov_20191018090010.pdf

Well work start Date: 03/01/2020

Duration: 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 7062

Reference Datum: GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|--------------|--------|------------|------------|------------|--------------|-----------|-------|-------|---|
| SHL Leg #1 | 1992 | FSL | 1270 | FEL | 23S | 33E | 1 | Aliquot NESE | 32.3318744 | -103.5216159 | LEA | NEW MEXICO | NEW MEXICO | F | NMLC0066438 | 3508 | 0 | 0 | N |
| KOP Leg #1 | 1992 | FSL | 1270 | FEL | 23S | 33E | 1 | Aliquot NESE | 32.3318744 | -103.5216159 | LEA | NEW MEXICO | NEW MEXICO | F | NMLC0066438 | -7872 | 11380 | 11380 | N |

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|--------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|---------------|--------|------------|------------|------------|--------------|-----------|-------|-------|---|
| PPP Leg #1-1 | 2640 | FNL | 1370 | FEL | 23S | 33E | 1 | Aliquot SWNE | 32.333647 | - 103.5219376 | LEA | NEW MEXICO | NEW MEXICO | F | NMLC0068387 | - 8449 | 12362 | 11957 | Y |
| PPP Leg #1-2 | 2600 | FNL | 1370 | FEL | 23S | 33E | 1 | Aliquot SWNE | 32.3337649 | - 103.5219391 | LEA | NEW MEXICO | NEW MEXICO | F | NMLC0068387 | - 8449 | 12402 | 11957 | Y |
| PPP Leg #1-3 | 0 | FSL | 1370 | FEL | 22S | 33E | 36 | Aliquot SWSE | 32.3409037 | - 103.5219881 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | - 8449 | 15002 | 11957 | Y |
| EXIT Leg #1 | 330 | FNL | 1410 | FEL | 22S | 33E | 36 | Aliquot NWNE | 32.3545179 | - 103.5220822 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | - 8449 | 19953 | 11957 | Y |
| BHL Leg #1 | 330 | FNL | 1410 | FEL | 22S | 33E | 36 | Aliquot NWNE | 32.3545179 | - 103.5220822 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | - 8449 | 19953 | 11957 | Y |

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|------------------------------------|--|--|
| ¹ API Number 30-025- | ² Pool Code 98265 | ³ Pool Name Ojo Chiso; Wolfcamp, Southwest |
| ⁴ Property Code | ⁵ Property Name BELL LAKE UNIT NORTH | ⁶ Well Number 423H |
| ⁷ OGRID No. 12361 | ⁸ Operator Name KAISER-FRANCIS OIL CO. | ⁹ Elevation 3508.2 |

¹⁰ Surface Location

| | | | | | | | | | |
|--------------------|--------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no. I | Section 1 | Township 23 S | Range 33 E | Lot Idn | Feet from the 1992 | North/South line SOUTH | Feet from the 1270 | East/West line EAST | County LEA |
|--------------------|--------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|--------------------|---------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no. B | Section 36 | Township 22 S | Range 33 E | Lot Idn | Feet from the 330 | North/South line NORTH | Feet from the 1410 | East/West line EAST | County LEA |
|--------------------|---------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|

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

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

| | | | |
|---|--|---|--|
| <p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Stormi Davis</i> 10/15/19 Signature Date</p> <p>Stormi Davis Printed Name</p> <p>ssdavis104@gmail.com E-mail Address</p> | | <p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 19, 2019 Date of Survey</p> <p><i>Filimon F. Jaramillo</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number: FILIMON F. JARAMILLO, PLS 12797 SURVEY NO. 7062</p> | |
|---|--|---|--|



Melanie Wilson <nmogrservices@gmail.com>

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

1 message

notification@pay.gov <notification@pay.gov>
To: nmogrservices@gmail.com

Fri, Oct 18, 2019 at 8:58 AM



An official email of the United States government



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

Application Name: BLM Oil and Gas Online Payment
Pay.gov Tracking ID: 26KUHTVR
Agency Tracking ID: 75865087340
Transaction Type: Sale
Transaction Date: 10/18/2019 10:58:17 AM EDT
Account Holder Name: George B Kaiser
Transaction Amount: \$10,230.00
Card Type: Visa
Card Number: *****0061

Company: Kaiser-Francis Oil Company
APD IDs: 10400049466
Lease Numbers: NMLC0068387
Well Numbers: 423H

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

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



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APD ID: 10400049466

Submission Date: 10/18/2019

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|------------------|-----------|---------------------|----------------|-----------------|-------------------|---------------------|
| 562972 | --- | 3508 | 0 | 0 | OTHER : Surface | NONE | N |
| 562973 | RUSTLER | 2086 | 1422 | 1422 | SANDSTONE | NONE | N |
| 562974 | SALADO | 1686 | 1822 | 1822 | SALT | NONE | N |
| 562975 | TOP SALT | 1361 | 2147 | 2147 | SALT | NONE | N |
| 562976 | BASE OF SALT | -1614 | 5122 | 5122 | SALT | NONE | N |
| 562977 | LAMAR | -1789 | 5297 | 5297 | SANDSTONE | NATURAL GAS, OIL | N |
| 562978 | BELL CANYON | -1864 | 5372 | 5372 | SANDSTONE | NATURAL GAS, OIL | N |
| 562979 | CHERRY CANYON | -2739 | 6247 | 6247 | SANDSTONE | NATURAL GAS, OIL | N |
| 562980 | BRUSHY CANYON | -4214 | 7722 | 7722 | SANDSTONE | NATURAL GAS, OIL | N |
| 562981 | BONE SPRING | -5314 | 8822 | 8822 | LIMESTONE | NATURAL GAS, OIL | N |
| 562982 | AVALON SAND | -5587 | 9095 | 9095 | SANDSTONE | NATURAL GAS, OIL | N |
| 562983 | BONE SPRING 1ST | -6414 | 9922 | 9922 | SANDSTONE | NATURAL GAS, OIL | N |
| 562990 | BONE SPRING 2ND | -6999 | 10507 | 10507 | SANDSTONE | NATURAL GAS, OIL | N |
| 563293 | BONE SPRING LIME | -7474 | 10982 | 10982 | LIMESTONE | NATURAL GAS, OIL | N |
| 563294 | BONE SPRING 3RD | -7784 | 11292 | 11292 | SANDSTONE | NATURAL GAS, OIL | N |
| 563295 | WOLFCAMP | -8249 | 11757 | 11757 | SHALE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

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, a blind ram and safety valves and appropriate handles located on rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. Remote kill line (2 min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3 min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.

Requesting Variance? YES

Variance request: Flex Hose Variance

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional and tested.

Choke Diagram Attachment:

BLUN_423H_Choke_Manifold_20191015195040.pdf

BOP Diagram Attachment:

BLUN_423H_Flex_Hose_20191017162754.pdf

BLUN_424H_Wellhead_20200826133456.pdf

BLUN_424H_BOP2_20200826133456.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|---------|--------|-----------------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 14.75 | 10.75 | NEW | API | N | 0 | 1447 | 0 | 1447 | 3508 | 2061 | 1447 | J-55 | 40.5 | ST&C | 2.3 | 4.6 | DRY | 7.2 | DRY | 10.7 |
| 2 | INTERMEDIATE | 9.875 | 7.625 | NEW | API | N | 0 | 11207 | 0 | 11207 | | -7699 | 11207 | HCP-110 | 29.7 | LT&C | 1.3 | 1.8 | DRY | 2.3 | DRY | 2.8 |
| 3 | PRODUCTION | 6.75 | 5.5 | NEW | API | N | 0 | 19953 | 0 | 11957 | | -8449 | 19953 | P-110 | 20 | OTHER - USS Eagle SFH | 1.8 | 1.9 | DRY | 2.6 | DRY | 3 |

Casing Attachments

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_423H_Casing_Assumptions_20191015195722.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_423H_Casing_Assumptions_20191015195319.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_423H_Casing_Assumptions_20191015195530.pdf

5.5_x_20_P110_HP_USS_EAGLE_SFH_Performance_Sheet_20191015195536.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--------------|
| SURFACE | Lead | | 0 | 1447 | 697 | 1.72 | 13.5 | 1206 | 50 | ExtendaCem | Poly E Flake |

| | | | | | | | | | | | |
|--------------|------|--|------|-----------|-----|------|------|------|----|----------|----------|
| INTERMEDIATE | Lead | | 0 | 1120 7 | 848 | 2.73 | 11 | 2316 | 25 | NeoCem | Extender |
| INTERMEDIATE | Tail | | 0 | 1120 7 | 579 | 1.2 | 15.6 | 692 | 25 | Halcem | none |
| PRODUCTION | Lead | | 9000 | 1995 3 | 860 | 1.22 | 14.5 | 1052 | 15 | VersaCem | Halad |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|---------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1120 7 | 1195 7 | OIL-BASED MUD | 10 | 12 | | | | | | | |
| 1447 | 1120 7 | OTHER : Brine | 8.7 | 8.9 | | | | | | | |
| 0 | 1447 | OTHER : Fresh Water | 8.4 | 9 | | | | | | | |

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

Section 6 - Test, Logging, Coring

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

Top of cement on production casing will be determined by calculation.

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

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

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7461

Anticipated Surface Pressure: 4830

Anticipated Bottom Hole Temperature(F): 199

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Contingency_Plan_NM_BLUN_20190926073105.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_423H___Directional_Plan_20191015200429.pdf

Other proposed operations facets description:

Gas Capture Plan attached

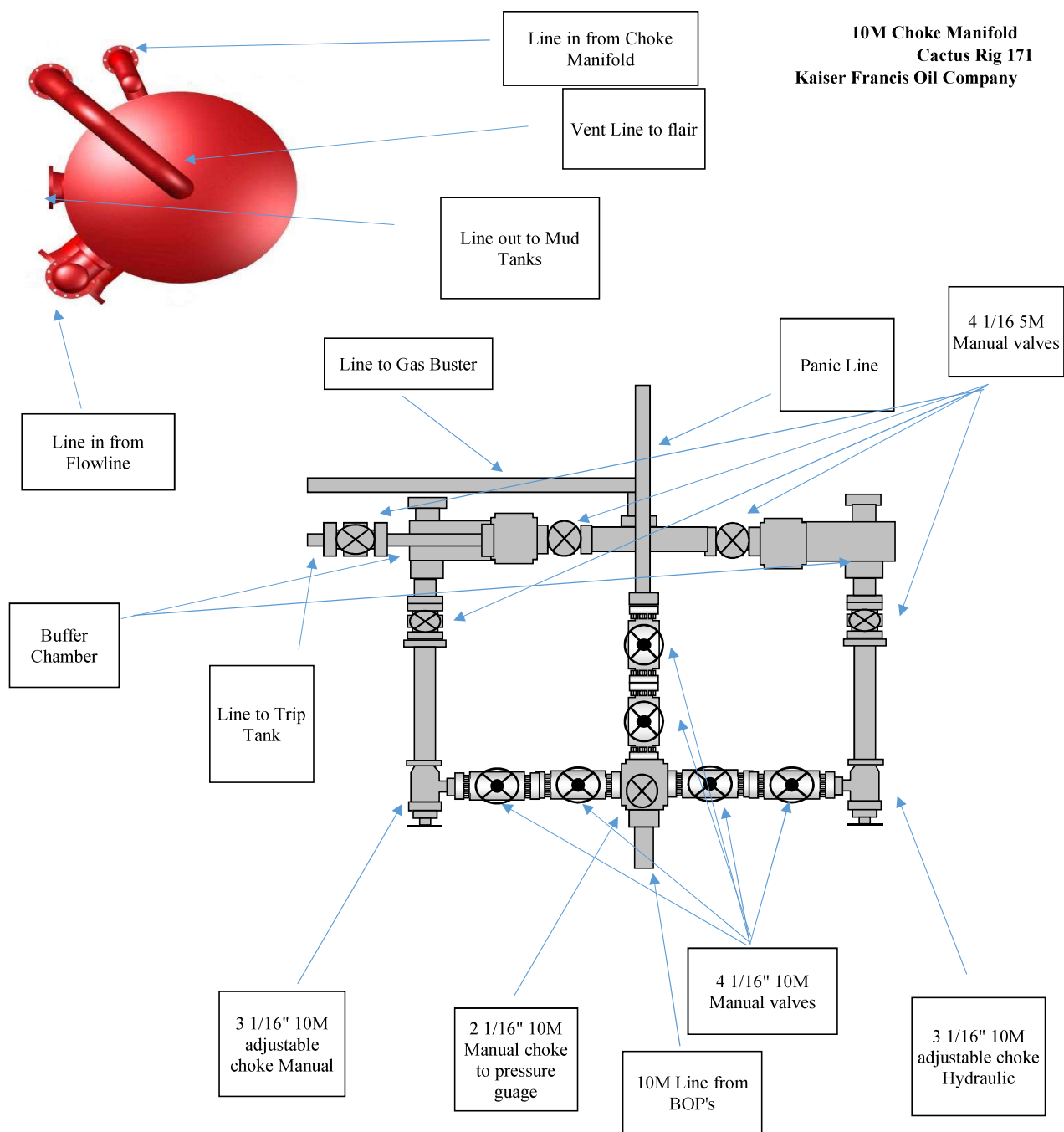
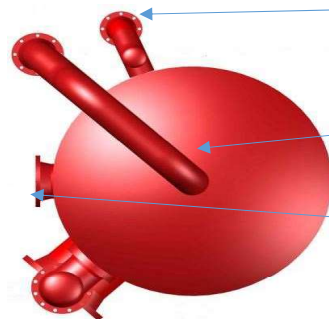
Other proposed operations facets attachment:

BLUN_Pad_5_GCP_20191015200514.pdf

Other Variance attachment:

BLUN_423H_Flex_Hose_20191017162853.pdf

**10M Choke Manifold
Cactus Rig 171
Kaiser Francis Oil Company**



BLUN 423H

Casing Assumptions

| Interval | Length | Casing Size | Weight (#/ft) | Grade | Thread | Condition | Hole Size | TVD (ft) | Mud Type | Mud Weight Hole Control | Viscosity | Fluid Loss | Anticipated Mud Weight (ppg) | Max Pore Pressure (psi) | Collapse (psi) | Burst (psi) | Body Tensile Strength | Joint Tensile Strength | 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) |
|--------------|--------|-------------|---------------|---------|---------------|-----------|-----------|----------|----------|-------------------------|-----------|------------|------------------------------|-------------------------|----------------|-------------|-----------------------|------------------------|----------------------------------|-------------------------------|--------------------------------------|---------------------------------------|
| Conductor | 120 | 20" | | | | New | | 120 | | | | | | | | | | | | | | |
| Surface | 1447 | 10-3/4" | 40.5 | J-55 | STC | New | 14-3/4" | 1447 | FW | 8.4 - 9.0 | 32 - 34 | NC | 9 | 677 | 1580 | 3130 | 629000 | 420000 | 2.3 | 4.6 | 10.7 | 7.2 |
| Intermediate | 11207 | 7-5/8" | 29.7 | HCP110 | LTC | New | 9-7/8" | 11207 | Brine | 8.7 - 9.0 | 28-29 | NC | 9 | 5245 | 6700 | 9460 | 940000 | 769000 | 1.3 | 1.8 | 2.8 | 2.3 |
| Production | 19953 | 5-1/2" | 20 | P110 HP | USS Eagle SFH | New | 6-3/4" | 11957 | OBM | 10.0-12.0 | 55-70 | | 12 | 7461 | 13150 | 14360 | 729000 | 629000 | 1.8 | 1.9 | 3.0 | 2.6 |

BLUN 423H

Casing Assumptions

| Interval | Length | Casing Size | Weight (#/ft) | Grade | Thread | Condition | Hole Size | TVD (ft) | Mud Type | Mud Weight Hole Control | Viscosity | Fluid Loss | Anticipated Mud Weight (ppg) | Max Pore Pressure (psi) | Collapse (psi) | Burst (psi) | Body Tensile Strength | Joint Tensile Strength | 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) |
|--------------|--------|-------------|---------------|---------|---------------|-----------|-----------|----------|----------|-------------------------|-----------|------------|------------------------------|-------------------------|----------------|-------------|-----------------------|------------------------|----------------------------------|-------------------------------|--------------------------------------|---------------------------------------|
| Conductor | 120 | 20" | | | | New | | 120 | | | | | | | | | | | | | | |
| Surface | 1447 | 10-3/4" | 40.5 | J-55 | STC | New | 14-3/4" | 1447 | FW | 8.4 - 9.0 | 32 - 34 | NC | 9 | 677 | 1580 | 3130 | 629000 | 420000 | 2.3 | 4.6 | 10.7 | 7.2 |
| Intermediate | 11207 | 7-5/8" | 29.7 | HCP110 | LTC | New | 9-7/8" | 11207 | Brine | 8.7 - 9.0 | 28-29 | NC | 9 | 5245 | 6700 | 9460 | 940000 | 769000 | 1.3 | 1.8 | 2.8 | 2.3 |
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U. S. Steel Tubular Products

5 1/2 20.00 lb (0.361) P110 HP

USS-EAGLE SFH™

| | PIPE | CONNECTION | |
|--------------------------------------|---------|------------|------------|
| MECHANICAL PROPERTIES | | | |
| Minimum Yield Strength | 125,000 | | psi |
| Maximum Yield Strength | 140,000 | | psi |
| Minimum Tensile Strength | 130,000 | | psi |
| DIMENSIONS | | | |
| Outside Diameter | 5.500 | 5.830 | in. |
| Wall Thickness | 0.361 | | in. |
| Inside Diameter | 4.778 | 4.693 | in. |
| Drift - API | 4.653 | 4.653 | in. |
| Nominal Linear Weight, T&C | 20.00 | | lbs/ft |
| Plain End Weight | 19.83 | | lbs/ft |
| SECTION AREA | | | |
| Cross Sectional Area Critical Area | 5.828 | 5.027 | sq. in. |
| Joint Efficiency | | 86.25 | % |
| PERFORMANCE | | | |
| Minimum Collapse Pressure | 13,150 | 13,150 | psi |
| External Pressure Leak Resistance | | 10,000 | psi |
| Minimum Internal Yield Pressure | 14,360 | 14,360 | psi |
| Minimum Pipe Body Yield Strength | 729,000 | | lbs |
| Joint Strength | | 629,000 | lbs |
| Compression Rating | | 629,000 | lbs |
| Reference Length | | 21,146 | ft |
| Maximum Uniaxial Bend Rating | | 89.9 | deg/100 ft |
| MAKE-UP DATA | | | |
| Minimum Make-Up Torque | | 14,200 | ft-lbs |
| Maximum Make-Up Torque | | 16,800 | ft-lbs |
| Maximum Operating Torque | | 25,700 | ft-lbs |
| Make-Up Loss | | 5.92 | in. |

Notes:

- 1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2) Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3) Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 4) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5) Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.
- 6) Connection external pressure resistance has been verified to 10,000 psi (Fit-For-Service testing protocol).

Legal Notice: All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability, and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

Manuel USS Product Data Sheet 2017 rev26 (Sept)

BLUN 423H

Casing Assumptions

| Interval | Length | Casing Size | Weight (#/ft) | Grade | Thread | Condition | Hole Size | TVD (ft) | Mud Type | Mud Weight Hole Control | Viscosity | Fluid Loss | Anticipated Mud Weight (ppg) | Max Pore Pressure (psi) | Collapse (psi) | Burst (psi) | Body Tensile Strength | Joint Tensile Strength | 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) |
|--------------|--------|-------------|---------------|---------|---------------|-----------|-----------|----------|----------|-------------------------|-----------|------------|------------------------------|-------------------------|----------------|-------------|-----------------------|------------------------|----------------------------------|-------------------------------|--------------------------------------|---------------------------------------|
| Conductor | 120 | 20" | | | | New | | 120 | | | | | | | | | | | | | | |
| Surface | 1447 | 10-3/4" | 40.5 | J-55 | STC | New | 14-3/4" | 1447 | FW | 8.4 - 9.0 | 32 - 34 | NC | 9 | 677 | 1580 | 3130 | 629000 | 420000 | 2.3 | 4.6 | 10.7 | 7.2 |
| Intermediate | 11207 | 7-5/8" | 29.7 | HCP110 | LTC | New | 9-7/8" | 11207 | Brine | 8.7 - 9.0 | 28-29 | NC | 9 | 5245 | 6700 | 9460 | 940000 | 769000 | 1.3 | 1.8 | 2.8 | 2.3 |
| Production | 19953 | 5-1/2" | 20 | P110 HP | USS Eagle SFH | New | 6-3/4" | 11957 | OBM | 10.0-12.0 | 55-70 | | 12 | 7461 | 13150 | 14360 | 729000 | 629000 | 1.8 | 1.9 | 3.0 | 2.6 |

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

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

LEA COUNTY, NM

This well/facility is not expected to have H₂S, but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

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| Emergency Response Activation and General Responsibilities | 3 |
| Individual Responsibilities During An H ₂ S Release | 4 |
| Procedure For Igniting An Uncontrollable Condition | 5 |
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EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

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

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

General Responsibilities

In the event of an H₂S emergency, the following plan will be initiated.

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

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

INDIVIDUAL RESPONSIBILITIES DURING AN H₂S RELEASE

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

All Personnel:

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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

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

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

INSTRUCTIONS FOR IGNITION:

- 1) Two people are required. They must be equipped with positive pressure; self contained breathing apparatus and a "D"-ring style, full body, OSHA approved safety harness. Non-flammable rope will be attached.
- 2) One of the people will be a qualified safety person who will test the atmosphere for H₂S, Oxygen, & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3) Ignite up-wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25mm flare gun shall be used, with a +/-500' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions & procedures as before.

CONTACTING AUTHORITIES

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

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

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

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

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

PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event of a release with a concentration greater than 100 ppm H₂S, the ROE (Radius of Exposure) calculations will be done to determine if the following conditions have been met:

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

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

Calculation for the 100 ppm ROE:

$$X = [(1.589)(\text{concentration})(Q)] (.06258)$$

(H₂S concentrations in decimal form)

10,000 ppm +=1.+

1,000 ppm +=.1+

100 ppm +=.01+

10 ppm +=.001+

Calculation for the 500 ppm ROE:

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

EXAMPLE: If a well/facility has been determined to have 150 ppm H₂S in the gas mixture and the well/facility is producing at a gas rate of 200 MCFPD then:

ROE for 100 PPM $X=[(1.589)(.0150)(200)] (.06258)$

$$X=2.65'$$

ROE for 500 PPM $X=[(.4546)(.0150)(200)] (.06258)$

$$X=1.2'$$

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

PUBLIC EVACUATION PLAN:

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

- 1) Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.
- 2) A trained person in H₂S safety, shall monitor with detection equipment the H₂S Concentration, wind and area of exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. **(All monitoring equipment will be UL approved, for use in class I groups A,B,C & D, Division I, hazardous locations. All monitors will have a minimum capability of measuring H₂S, oxygen, and flammable values.)**
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 4) The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

CHARACTERISTICS OF H₂S AND SO₂

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|------------------|------------------|------------------|-----------------|-----------------|----------------------|
| Hydrogen Sulfide | H ₂ S | 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 H₂S 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 H₂S 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

Bell Lake Unit North 423H
Bell Lake Unit North 423H
Bell Lake Unit North 423H

Plan: 190915 Bell Lake Unit North 423H

Morcor Standard Plan

15 September, 2019

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Bell Lake Unit North 407H | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | New Mexico Eastern Zone | | |

| | | | |
|------------------------------|---------------------------|--------------------------|-------------------|
| Site | Bell Lake Unit North 423H | | |
| Site Position: | | Northing: | 485,417.87 usft |
| From: | Map | Easting: | 792,053.28 usft |
| Position Uncertainty: | 1.0 usft | Slot Radius: | 17-1/2 " |
| | | Latitude: | 32° 19' 54.748 N |
| | | Longitude: | 103° 31' 17.817 W |
| | | Grid Convergence: | 0.43 ° |

| | | | |
|-----------------------------|---------------------------|----------|----------------------------|
| Well | Bell Lake Unit North 423H | | |
| Well Position | +N/-S | 0.0 usft | Northing: |
| | +E/-W | 0.0 usft | Easting: |
| Position Uncertainty | 1.0 usft | | Wellhead Elevation: |
| | | | usft |
| | | | Latitude: |
| | | | 32° 19' 54.748 N |
| | | | Longitude: |
| | | | 103° 31' 17.817 W |
| | | | Ground Level: |
| | | | 3,508.2 usft |

| | | | | | |
|------------------|---------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Bell Lake Unit North 423H | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 9/15/2019 | 6.54 | 60.08 | 47,860 |

| | | | | |
|--------------------------|----------------------------------|---------------------|----------------------|----------------------|
| Design | 190915 Bell Lake Unit North 423H | | | |
| 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 | 358.56 |

| | | | | | |
|----------------------------|------------------|---|------------------|--------------------|--|
| Survey Tool Program | Date | 9/15/2019 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 19,953.1 | 190915 Bell Lake Unit North 423H (Bell La | MWD | MWD - Standard | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 0.0 | 0.00 | 0.00 | 0.0 | -3,530.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | -3,430.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 120.0 | 0.00 | 0.00 | 120.0 | -3,410.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 20" Conductor | | | | | | | | | | | |
| 200.0 | 0.00 | 0.00 | 200.0 | -3,330.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | -3,230.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | -3,130.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | -3,030.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | -2,930.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 700.0 | 0.00 | 0.00 | 700.0 | -2,830.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 800.0 | 0.00 | 0.00 | 800.0 | -2,730.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 900.0 | 0.00 | 0.00 | 900.0 | -2,630.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | -2,530.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | -2,430.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | -2,330.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | -2,230.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | -2,130.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,422.0 | 0.00 | 0.00 | 1,422.0 | -2,108.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Ruslter | | | | | | | | | | | |
| 1,447.0 | 0.00 | 0.00 | 1,447.0 | -2,083.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 13 3/8" Surface Casing | | | | | | | | | | | |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | -2,030.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | -1,930.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | -1,830.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | -1,730.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1,822.0 | 0.00 | 0.00 | 1,822.0 | -1,708.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Salado | | | | | | | | | | | |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | -1,630.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | -1,530.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | -1,430.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,147.0 | 0.00 | 0.00 | 2,147.0 | -1,383.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Top of Salt | | | | | | | | | | | |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | -1,330.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | -1,230.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | -1,130.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | -1,030.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | -930.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | -830.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | -730.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | -630.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | -530.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | -430.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | -330.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | -230.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | -130.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | -30.2 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 69.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|-----------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 1,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,700.0 | 0.00 | 0.00 | 4,700.0 | 1,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 1,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 4,900.0 | 0.00 | 0.00 | 4,900.0 | 1,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 1,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,100.0 | 0.00 | 0.00 | 5,100.0 | 1,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,122.0 | 0.00 | 0.00 | 5,122.0 | 1,591.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Base of Salt | | | | | | | | | | | |
| 5,200.0 | 0.00 | 0.00 | 5,200.0 | 1,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,297.0 | 0.00 | 0.00 | 5,297.0 | 1,766.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Lamar | | | | | | | | | | | |
| 5,300.0 | 0.00 | 0.00 | 5,300.0 | 1,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,347.0 | 0.00 | 0.00 | 5,347.0 | 1,816.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10 3/4" Intermediate Casing | | | | | | | | | | | |
| 5,372.0 | 0.00 | 0.00 | 5,372.0 | 1,841.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Bell Canyon | | | | | | | | | | | |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 1,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,500.0 | 0.00 | 0.00 | 5,500.0 | 1,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,600.0 | 0.00 | 0.00 | 5,600.0 | 2,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,700.0 | 0.00 | 0.00 | 5,700.0 | 2,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,800.0 | 0.00 | 0.00 | 5,800.0 | 2,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 5,900.0 | 0.00 | 0.00 | 5,900.0 | 2,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,000.0 | 0.00 | 0.00 | 6,000.0 | 2,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,100.0 | 0.00 | 0.00 | 6,100.0 | 2,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,200.0 | 0.00 | 0.00 | 6,200.0 | 2,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,247.0 | 0.00 | 0.00 | 6,247.0 | 2,716.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Cherry Canyon | | | | | | | | | | | |

Morcor Engineering
Morcor Standard Plan



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|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 6,300.0 | 0.00 | 0.00 | 6,300.0 | 2,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,400.0 | 0.00 | 0.00 | 6,400.0 | 2,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,500.0 | 0.00 | 0.00 | 6,500.0 | 2,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,600.0 | 3,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,700.0 | 0.00 | 0.00 | 6,700.0 | 3,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,800.0 | 3,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,900.0 | 3,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 7,000.0 | 3,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 7,100.0 | 3,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 7,200.0 | 3,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,300.0 | 3,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,400.0 | 3,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,500.0 | 3,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,600.0 | 4,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,700.0 | 0.00 | 0.00 | 7,700.0 | 4,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,722.0 | 0.00 | 0.00 | 7,722.0 | 4,191.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Brushy Canyon | | | | | | | | | | | |
| 7,800.0 | 0.00 | 0.00 | 7,800.0 | 4,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,900.0 | 4,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 8,000.0 | 4,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 8,100.0 | 4,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,200.0 | 4,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,300.0 | 4,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,400.0 | 4,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,500.0 | 4,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,600.0 | 5,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,700.0 | 5,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |

Morcor Engineering
Morcor Standard Plan



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|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 8,800.0 | 0.00 | 0.00 | 8,800.0 | 5,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 8,822.0 | 0.00 | 0.00 | 8,822.0 | 5,291.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Bone Spring | | | | | | | | | | | |
| 8,900.0 | 0.00 | 0.00 | 8,900.0 | 5,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 9,000.0 | 5,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,095.0 | 0.00 | 0.00 | 9,095.0 | 5,564.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Avalon | | | | | | | | | | | |
| 9,100.0 | 0.00 | 0.00 | 9,100.0 | 5,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,200.0 | 5,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,300.0 | 5,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,400.0 | 5,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 9,500.0 | 5,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 9,600.0 | 6,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,700.0 | 6,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,800.0 | 6,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,900.0 | 6,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 9,922.0 | 0.00 | 0.00 | 9,922.0 | 6,391.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 1st BS Sand | | | | | | | | | | | |
| 10,000.0 | 0.00 | 0.00 | 10,000.0 | 6,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 10,100.0 | 6,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 10,200.0 | 6,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 10,300.0 | 6,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 10,400.0 | 6,869.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,500.0 | 0.00 | 0.00 | 10,500.0 | 6,969.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,507.0 | 0.00 | 0.00 | 10,507.0 | 6,976.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 2nd BS Sand | | | | | | | | | | | |
| 10,600.0 | 0.00 | 0.00 | 10,600.0 | 7,069.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|--------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 10,700.0 | 0.00 | 0.00 | 10,700.0 | 7,169.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,800.0 | 0.00 | 0.00 | 10,800.0 | 7,269.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,900.0 | 0.00 | 0.00 | 10,900.0 | 7,369.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 10,982.0 | 0.00 | 0.00 | 10,982.0 | 7,451.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3rd BS Lime | | | | | | | | | | | |
| 11,000.0 | 0.00 | 0.00 | 11,000.0 | 7,469.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 11,100.0 | 0.00 | 0.00 | 11,100.0 | 7,569.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 11,200.0 | 0.00 | 0.00 | 11,200.0 | 7,669.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 11,207.0 | 0.00 | 0.00 | 11,207.0 | 7,676.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 7 5/8" 2nd Intermediate Casing | | | | | | | | | | | |
| 11,292.0 | 0.00 | 0.00 | 11,292.0 | 7,761.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 3rd BS Sand | | | | | | | | | | | |
| 11,300.0 | 0.00 | 0.00 | 11,300.0 | 7,769.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| 11,380.0 | 0.00 | 0.00 | 11,380.0 | 7,849.8 | 0.0 | 0.0 | 792,053.28 | 485,417.87 | 0.00 | 0.00 | |
| Start Build 10.00 | | | | | | | | | | | |
| 11,400.0 | 2.00 | 350.28 | 11,400.0 | 7,869.8 | 0.3 | -0.1 | 792,053.22 | 485,418.21 | 0.35 | 10.00 | |
| 11,500.0 | 12.00 | 350.28 | 11,499.1 | 7,968.9 | 12.3 | -2.1 | 792,051.17 | 485,430.21 | 12.39 | 10.00 | |
| 11,600.0 | 22.00 | 350.28 | 11,594.6 | 8,064.4 | 41.1 | -7.0 | 792,046.24 | 485,458.98 | 41.28 | 10.00 | |
| 11,700.0 | 31.99 | 350.28 | 11,683.6 | 8,153.4 | 85.8 | -14.7 | 792,038.59 | 485,503.67 | 86.14 | 10.00 | |
| 11,791.5 | 41.14 | 350.28 | 11,757.0 | 8,226.8 | 139.4 | -23.9 | 792,029.40 | 485,557.31 | 140.00 | 10.00 | |
| Wolfcamp | | | | | | | | | | | |
| 11,800.0 | 41.99 | 350.28 | 11,763.4 | 8,233.2 | 145.0 | -24.8 | 792,028.44 | 485,562.90 | 145.61 | 10.00 | |
| 11,900.0 | 51.99 | 350.28 | 11,831.5 | 8,301.3 | 217.0 | -37.2 | 792,016.11 | 485,634.89 | 217.88 | 10.00 | |
| 12,000.0 | 61.99 | 350.28 | 11,885.9 | 8,355.7 | 299.6 | -51.3 | 792,001.98 | 485,717.44 | 300.76 | 10.00 | |
| 12,100.0 | 71.99 | 350.28 | 11,925.0 | 8,394.8 | 390.2 | -66.8 | 791,986.46 | 485,808.04 | 391.73 | 10.00 | |
| 12,200.0 | 81.99 | 350.28 | 11,947.5 | 8,417.3 | 486.1 | -83.2 | 791,970.04 | 485,903.96 | 488.02 | 10.00 | |
| 12,243.4 | 86.32 | 350.28 | 11,951.9 | 8,421.7 | 528.6 | -90.5 | 791,962.75 | 485,946.48 | 530.71 | 10.00 | |
| Start DLS 6.07 TFO 67.84 | | | | | | | | | | | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | |
|---------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 12,300.0 | 87.62 | 353.47 | 11,954.9 | 8,424.7 | 584.6 | -98.5 | 791,954.76 | 486,002.45 | 586.86 | 6.07 |
| 12,400.0 | 89.94 | 359.08 | 11,957.0 | 8,426.8 | 684.3 | -105.0 | 791,948.27 | 486,102.16 | 686.71 | 6.07 |
| 12,402.7 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 687.0 | -105.1 | 791,948.23 | 486,104.87 | 689.42 | 6.07 |
| Start 7550.4 hold at 12402.7 MD | | | | | | | | | | |
| 12,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 784.3 | -106.4 | 791,946.92 | 486,202.16 | 786.70 | 0.00 |
| 12,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 884.3 | -107.7 | 791,945.58 | 486,302.15 | 886.70 | 0.00 |
| 12,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 984.3 | -109.0 | 791,944.24 | 486,402.14 | 986.69 | 0.00 |
| 12,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,084.3 | -110.4 | 791,942.90 | 486,502.13 | 1,086.68 | 0.00 |
| 12,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,184.2 | -111.7 | 791,941.55 | 486,602.12 | 1,186.68 | 0.00 |
| 13,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,284.2 | -113.1 | 791,940.21 | 486,702.11 | 1,286.67 | 0.00 |
| 13,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,384.2 | -114.4 | 791,938.87 | 486,802.10 | 1,386.66 | 0.00 |
| 13,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,484.2 | -115.8 | 791,937.52 | 486,902.09 | 1,486.66 | 0.00 |
| 13,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,584.2 | -117.1 | 791,936.18 | 487,002.08 | 1,586.65 | 0.00 |
| 13,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,684.2 | -118.4 | 791,934.84 | 487,102.07 | 1,686.64 | 0.00 |
| 13,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,784.2 | -119.8 | 791,933.50 | 487,202.07 | 1,786.64 | 0.00 |
| 13,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,884.2 | -121.1 | 791,932.15 | 487,302.06 | 1,886.63 | 0.00 |
| 13,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 1,984.2 | -122.5 | 791,930.81 | 487,402.05 | 1,986.62 | 0.00 |
| 13,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,084.2 | -123.8 | 791,929.47 | 487,502.04 | 2,086.62 | 0.00 |
| 13,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,184.2 | -125.2 | 791,928.13 | 487,602.03 | 2,186.61 | 0.00 |
| 14,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,284.2 | -126.5 | 791,926.78 | 487,702.02 | 2,286.60 | 0.00 |
| 14,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,384.1 | -127.8 | 791,925.44 | 487,802.01 | 2,386.60 | 0.00 |
| 14,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,484.1 | -129.2 | 791,924.10 | 487,902.00 | 2,486.59 | 0.00 |
| 14,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,584.1 | -130.5 | 791,922.75 | 488,001.99 | 2,586.58 | 0.00 |
| 14,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,684.1 | -131.9 | 791,921.41 | 488,101.98 | 2,686.58 | 0.00 |
| 14,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,784.1 | -133.2 | 791,920.07 | 488,201.98 | 2,786.57 | 0.00 |
| 14,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,884.1 | -134.6 | 791,918.73 | 488,301.97 | 2,886.56 | 0.00 |
| 14,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 2,984.1 | -135.9 | 791,917.38 | 488,401.96 | 2,986.56 | 0.00 |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|--|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) | |
| 14,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,084.1 | -137.2 | 791,916.04 | 488,501.95 | 3,086.55 | 0.00 | |
| 14,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,184.1 | -138.6 | 791,914.70 | 488,601.94 | 3,186.54 | 0.00 | |
| 15,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,284.1 | -139.9 | 791,913.36 | 488,701.93 | 3,286.54 | 0.00 | |
| 15,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,384.1 | -141.3 | 791,912.01 | 488,801.92 | 3,386.53 | 0.00 | |
| 15,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,484.0 | -142.6 | 791,910.67 | 488,901.91 | 3,486.52 | 0.00 | |
| 15,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,584.0 | -144.0 | 791,909.33 | 489,001.90 | 3,586.51 | 0.00 | |
| 15,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,684.0 | -145.3 | 791,907.98 | 489,101.89 | 3,686.51 | 0.00 | |
| 15,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,784.0 | -146.6 | 791,906.64 | 489,201.89 | 3,786.50 | 0.00 | |
| 15,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,884.0 | -148.0 | 791,905.30 | 489,301.88 | 3,886.49 | 0.00 | |
| 15,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 3,984.0 | -149.3 | 791,903.96 | 489,401.87 | 3,986.49 | 0.00 | |
| 15,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,084.0 | -150.7 | 791,902.61 | 489,501.86 | 4,086.48 | 0.00 | |
| 15,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,184.0 | -152.0 | 791,901.27 | 489,601.85 | 4,186.47 | 0.00 | |
| 16,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,284.0 | -153.4 | 791,899.93 | 489,701.84 | 4,286.47 | 0.00 | |
| 16,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,384.0 | -154.7 | 791,898.59 | 489,801.83 | 4,386.46 | 0.00 | |
| 16,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,484.0 | -156.0 | 791,897.24 | 489,901.82 | 4,486.45 | 0.00 | |
| 16,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,583.9 | -157.4 | 791,895.90 | 490,001.81 | 4,586.45 | 0.00 | |
| 16,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,683.9 | -158.7 | 791,894.56 | 490,101.80 | 4,686.44 | 0.00 | |
| 16,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,783.9 | -160.1 | 791,893.22 | 490,201.80 | 4,786.43 | 0.00 | |
| 16,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,883.9 | -161.4 | 791,891.87 | 490,301.79 | 4,886.43 | 0.00 | |
| 16,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 4,983.9 | -162.8 | 791,890.53 | 490,401.78 | 4,986.42 | 0.00 | |
| 16,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,083.9 | -164.1 | 791,889.19 | 490,501.77 | 5,086.41 | 0.00 | |
| 16,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,183.9 | -165.4 | 791,887.84 | 490,601.76 | 5,186.41 | 0.00 | |
| 17,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,283.9 | -166.8 | 791,886.50 | 490,701.75 | 5,286.40 | 0.00 | |
| 17,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,383.9 | -168.1 | 791,885.16 | 490,801.74 | 5,386.39 | 0.00 | |
| 17,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,483.9 | -169.5 | 791,883.82 | 490,901.73 | 5,486.39 | 0.00 | |
| 17,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,583.9 | -170.8 | 791,882.47 | 491,001.72 | 5,586.38 | 0.00 | |
| 17,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,683.8 | -172.1 | 791,881.13 | 491,101.71 | 5,686.37 | 0.00 | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
| Company: | Kaiser Francis | Local Co-ordinate Reference: | Well Bell Lake Unit North 423H |
| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Planned Survey | | | | | | | | | | |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|-------------------|--------------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | Easting (usft) | Northing (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 17,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,783.8 | -173.5 | 791,879.79 | 491,201.70 | 5,786.37 | 0.00 |
| 17,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,883.8 | -174.8 | 791,878.45 | 491,301.70 | 5,886.36 | 0.00 |
| 17,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 5,983.8 | -176.2 | 791,877.10 | 491,401.69 | 5,986.35 | 0.00 |
| 17,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,083.8 | -177.5 | 791,875.76 | 491,501.68 | 6,086.35 | 0.00 |
| 17,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,183.8 | -178.9 | 791,874.42 | 491,601.67 | 6,186.34 | 0.00 |
| 18,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,283.8 | -180.2 | 791,873.07 | 491,701.66 | 6,286.33 | 0.00 |
| 18,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,383.8 | -181.5 | 791,871.73 | 491,801.65 | 6,386.33 | 0.00 |
| 18,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,483.8 | -182.9 | 791,870.39 | 491,901.64 | 6,486.32 | 0.00 |
| 18,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,583.8 | -184.2 | 791,869.05 | 492,001.63 | 6,586.31 | 0.00 |
| 18,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,683.8 | -185.6 | 791,867.70 | 492,101.62 | 6,686.31 | 0.00 |
| 18,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,783.7 | -186.9 | 791,866.36 | 492,201.61 | 6,786.30 | 0.00 |
| 18,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,883.7 | -188.3 | 791,865.02 | 492,301.61 | 6,886.29 | 0.00 |
| 18,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 6,983.7 | -189.6 | 791,863.68 | 492,401.60 | 6,986.28 | 0.00 |
| 18,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,083.7 | -190.9 | 791,862.33 | 492,501.59 | 7,086.28 | 0.00 |
| 18,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,183.7 | -192.3 | 791,860.99 | 492,601.58 | 7,186.27 | 0.00 |
| 19,000.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,283.7 | -193.6 | 791,859.65 | 492,701.57 | 7,286.26 | 0.00 |
| 19,100.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,383.7 | -195.0 | 791,858.30 | 492,801.56 | 7,386.26 | 0.00 |
| 19,200.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,483.7 | -196.3 | 791,856.96 | 492,901.55 | 7,486.25 | 0.00 |
| 19,300.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,583.7 | -197.7 | 791,855.62 | 493,001.54 | 7,586.24 | 0.00 |
| 19,400.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,683.7 | -199.0 | 791,854.28 | 493,101.53 | 7,686.24 | 0.00 |
| 19,500.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,783.7 | -200.3 | 791,852.93 | 493,201.52 | 7,786.23 | 0.00 |
| 19,600.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,883.6 | -201.7 | 791,851.59 | 493,301.52 | 7,886.22 | 0.00 |
| 19,700.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 7,983.6 | -203.0 | 791,850.25 | 493,401.51 | 7,986.22 | 0.00 |
| 19,800.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 8,083.6 | -204.4 | 791,848.91 | 493,501.50 | 8,086.21 | 0.00 |
| 19,900.0 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 8,183.6 | -205.7 | 791,847.56 | 493,601.49 | 8,186.20 | 0.00 |
| 19,953.1 | 90.00 | 359.23 | 11,957.0 | 8,426.8 | 8,236.7 | -206.4 | 791,846.85 | 493,654.57 | 8,239.29 | 0.00 |
| TD at 19953.1 | | | | | | | | | | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
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| Project: | Bell Lake Unit North 407H | TVD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------------------------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 120.0 | 120.0 | 20" Conductor | 20 | 26 | |
| 1,447.0 | 1,447.0 | 13 3/8" Surface Casing | 13-3/8 | 17-1/2 | |
| 5,347.0 | 5,347.0 | 10 3/4" Intermediate Casing | 10-3/4 | 12-1/4 | |
| 11,207.0 | 11,207.0 | 7 5/8" 2nd Intermediate Casing | 7-5/8 | 9-7/8 | |
| 19,953.1 | 11,957.0 | 5 1/2" Production Casing | 5-1/2 | 6-3/4 | |

| Formations | | | | | |
|-----------------------|-----------------------|---------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 1,422.0 | 1,422.0 | Ruslter | | 0.00 | |
| 9,922.0 | 9,922.0 | 1st BS Sand | | 0.00 | |
| 5,372.0 | 5,372.0 | Bell Canyon | | 0.00 | |
| 5,122.0 | 5,122.0 | Base of Salt | | 0.00 | |
| 11,292.0 | 11,292.0 | 3rd BS Sand | | 0.00 | |
| 5,297.0 | 5,297.0 | Lamar | | 0.00 | |
| 9,095.0 | 9,095.0 | Avalon | | 0.00 | |
| 10,982.0 | 10,982.0 | 3rd BS Lime | | 0.00 | |
| 2,147.0 | 2,147.0 | Top of Salt | | 0.00 | |
| 8,822.0 | 8,822.0 | Bone Spring | | 0.00 | |
| 10,507.0 | 10,507.0 | 2nd BS Sand | | 0.00 | |
| 7,722.0 | 7,722.0 | Brushy Canyon | | 0.00 | |
| 1,822.0 | 1,822.0 | Salado | | 0.00 | |
| 6,247.0 | 6,247.0 | Cherry Canyon | | 0.00 | |
| 11,791.5 | 11,757.0 | Wolfcamp | | 0.00 | |

Morcor Engineering
Morcor Standard Plan



| | | | |
|------------------|----------------------------------|-------------------------------------|--|
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| Site: | Bell Lake Unit North 423H | MD Reference: | WELL @ 3530.2usft (Original Well Elev) |
| Well: | Bell Lake Unit North 423H | North Reference: | Grid |
| Wellbore: | Bell Lake Unit North 423H | Survey Calculation Method: | Minimum Curvature |
| Design: | 190915 Bell Lake Unit North 423H | Database: | EDM 5000.1 Single User Db |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 11,380.0 | 11,380.0 | 0.0 | 0.0 | Start Build 10.00 |
| 12,243.4 | 11,951.9 | 528.6 | -90.5 | Start DLS 6.07 TFO 67.84 |
| 12,402.7 | 11,957.0 | 687.0 | -105.1 | Start 7550.4 hold at 12402.7 MD |
| 19,953.1 | 11,957.0 | 8,236.7 | -206.4 | TD at 19953.1 |

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

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

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: **10/09/2019**

☒ Original

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

☐ Amended - Reason for Amendment: _____

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

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

Well(s)/Production Facility – Name of facility

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

| Well Name | API | Well Location (ULSTR) | Footages | Expected MCF/D | Flared or Vented | Comments |
|---------------------------|-----|-----------------------|----------|----------------|------------------|----------|
| Bell Lake Unit North 223H | | 1-23S-33E | | 2000 | 0 | |
| Bell Lake Unit North 224H | | 1-23S-33E | | 2000 | 0 | |
| Bell Lake Unit North 323H | | 1-23S-33E | | 2000 | 0 | |
| Bell Lake Unit North 324H | | 1-23S-33E | | 2000 | 0 | |
| Bell Lake Unit North 423H | | 1-23S-33E | | 2000 | 0 | |
| Bell Lake Unit North 424H | | 1-23S-33E | | 2000 | 0 | |

Gathering System and Pipeline Notification

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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



Certificate of Registration

APIQR® REGISTRATION NUMBER

3042

This certifies that the quality management system of

**COPPER STATE RUBBER, INC.
10485 W. Roosevelt Street
Avondale, AZ**

*has been assessed by the American Petroleum Institute Quality Registrar (APIQR®) and
found it to be in conformance with the following standard:*

ISO 9001:2015

The scope of this registration and the approved quality management system applies to the
Design and Manufacture of Oilfield, Marine and Other Industrial Hoses

APIQR® approves the organization's justification for excluding:

No Exclusions Identified as Applicable

Effective Date: APRIL 21, 2019
Expiration Date: APRIL 21, 2022
Registered Since: APRIL 21, 2016

*Vice President of Global
Industry Services*

Accredited by Member of
the International
Accreditation Forum
Multilateral Recognition
Arrangement for Quality
Management Systems



This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of APIQR's Registration Program and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 standard requirements may be obtained by consulting the registered organization. This certificate has been issued from APIQR offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A., it is the property of APIQR, and must be returned upon request. To verify the authenticity of this certificate, go to www.api.org/compositelist.



2018-152 | 02.19
Digital

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

COPPER STATE RUBBER, INC.
10485 W. Roosevelt Street
Avondale, AZ

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Specification Q1

The scope of this registration and the approved quality management system applies to the:

Design and Manufacture of Oilfield, Marine and Other Industrial Hoses

API approves the organization's justification for excluding:

No Exclusions Identified as Applicable



| | |
|-------------------|-----------------------|
| Effective Date: | APRIL 21, 2019 |
| Expiration Date: | APRIL 21, 2022 |
| Registered Since: | MAY 4, 2016 |

A handwritten signature in black ink, appearing to read 'Debra C. Phillips'.

Vice President of Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, *Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry*, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API, and must be returned upon request. **To verify the authenticity of this certificate, go to www.api.org/compositelist.**

Certificate of Authority to use the Official API Monogram

License Number: 16C-0383

ORIGINAL

The American Petroleum Institute hereby grants to

COPPER STATE RUBBER, INC.
10485 W. Roosevelt Street
Avondale, AZ

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0383**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Flexible Choke and Kill Lines at FSL 0, FSL 1, FSL 2, FSL 3

QMS Exclusions: No Exclusions Identified as Applicable

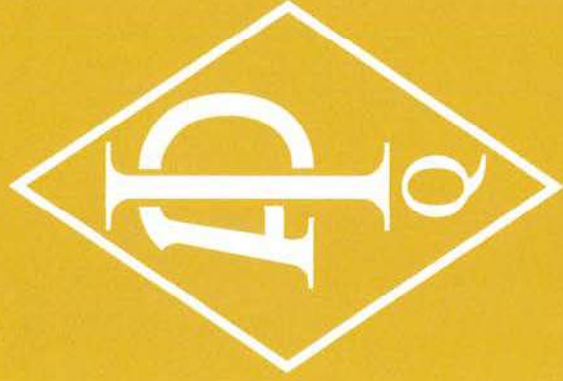
Effective Date: APRIL 21, 2019

Expiration Date: APRIL 21, 2022

2018-151 | Digital

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services



**American
Petroleum
Institute**





14141 S. Wayside Drive
Houston, Texas 77048

Phone 713-644-1491
Fax 713-644-9830
www.copperstaterubber.com
sales@copperstaterubber.com

October 7, 2019

Cactus Drilling LTR Fastener
11722 W. Hwy 80 E.
Odessa, TX 79765

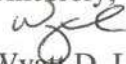
Subject: Date: October 7, 2019
Specialties Company File No.: CSR-32367 / SPECO-83336

Equipment: Inspect, Borescope, and Recertify Customer's Choke & Kill Hose, API 16C Monogrammed, Fire Resistant, 10,000 PSI MAWP x 15,000 PSI Test, Complete With 4-1/16" 10,000 PSI API Flanged Ends (Swivel x Fixed).
1EA: 3" ID X 35 Ft. (S/N-33974A)

CERTIFICATE OF COMPLIANCE

This is to certify the above referenced equipment meets or exceeds the following requirements and were manufactured from same material specification and manufacturing methods as prototype assemblies for referenced specifications.

- I. COMPLETE HOSE ASSEMBLY
 - A. API Certificate of Accreditation for Spec: Q1 (Quality Programs) and Spec.: 16C
 - 1. Copper State Rubber, Inc. Certificate No.: 16C-0383
 - B. **CSR** Specification No.: 090-1915C-48
- II. PHYSICAL/CHEMICAL PROPERTIES OF METAL COMPONENTS
 - A. **API** Spec. 6A, latest edition
 - B. **API** Spec. 16A, latest edition
 - C. **NACE** Standard MR0175, latest edition

Sincerely,

Wyatt D. Love,
Technical Department



Visual Inspection / Hydrostatic Test Report

| | |
|-----------------|----------------------------------|
| Manufacturer | Copper State Rubber Inc. |
| Hose Type | Rotary Hose Re-Test |
| Pressure Rating | 10,000 PSI MAWP X 15,000 PSI T/P |
| Spec Number | 090-1915C - 48 |

| | |
|-------------------|-----------------|
| Serial Number | 33974A |
| Size ID | 3" |
| Length | 35' |
| Date | October 3, 2019 |
| Shop Order Number | 32367 |

Connections Description: 4 1/16" 10,000 PSI API SWIVEL FLANGE
4 1/16" 10,000 PSI API FIXED FLANGE

Traceability of Terminating Connectors

| | Insert | Male | Nut | Female | Flanges | Hubs | Other |
|-------------|--------|------|-----|--------|---------|------|---------|
| Connector 1 | 14B2 | | | | V4760 | | 81401-1 |
| Connector 2 | 14C1 | | | | V5468 | | H1264 |

Comments _____

Calibrated Devices

| | | | |
|-------------------|--------|------------------|----------|
| Pressure Recorder | CAL242 | Calibration Date | 8/8/2019 |
|-------------------|--------|------------------|----------|

*This report signifies that the product has been visually inspected for defects in the interior tube, recess, gasket, cover and branding and all have been found to be conforming.

Comments Hose recess was repaired and then tested to factory test pressure as new.

Hydrostatic Testing Requirements

Length after test

15 Min @ 15,000 psi (-0/+500 psi)

35' OAL

Witness By: _____

Kyle Winters, Supervisor

Final OK: _____

Robert Snider, Quality Manager



Borescope / Visual Inspection

| | |
|-----------------|----------------------------------|
| Manufacturer | Copper State Rubber Inc. |
| Hose Type | Vibrator / Rotary Hose |
| Pressure Rating | 10,000 PSI MAWP X 15,000 PSI T/P |
| Spec Number | 090-1915C - 48 |

| | |
|---------------|-----------------|
| Serial Number | 33974A |
| Size ID | 3" |
| Length | 35' |
| Date | October 3, 2019 |

| | Remarks |
|-------------------|------------|
| Gasket Faces | Pass |
| Recesses | Pass |
| Hose Bore | Pass |
| Bubbles or Bulges | None Noted |
| Visual Inspection | Pass |

Comments: Hose is confirmed to be in factory new condition.

Witness By:

Robert Snider, Quality Manager



C&K (15,000 psi)

Date 10/03/19

psi

24000

22000

20000

18000

16000

14000

12000

10000

8000

6000

4000

2000

0

| | |
|----------------------|-----------|
| Working Pressure | 10000 psi |
| Test Pressure | 15000 psi |
| Final Pressure | 15229 psi |
| Pressure Recorder ID | CAL242 |
| Calibration Date | 08/08/19 |

11:44 11:48 11:52 11:56 12:00 12:04 12:08 12:12 12:16 12:20 12:24 12:28 12:32 12:36 12:40 12:44 12:48 12:52

| Serial | Work Order | Hose I.D. | Length | End Fitting A | End Fitting B |
|--------|------------|-----------|---------------|------------------------------------|------------------------------|
| 33974A | 32367 | 3" ▼ | 35 ft 0.00 in | 4-1/16" 10,000# API SWIVEL FLANG ▼ | 4-1/16" 10,000# API FLANGE ▼ |

| Operator | Reviewer | 3rd Party Witness |
|------------------|----------------|-------------------|
| Ruben Martinez ▼ | Kyle Winters ▼ | Robert Syde II ▼ |



Signature/Date



Signature/Date



Signature/Date





APD ID: 10400049466

Submission Date: 10/18/2019

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BLUN_423H_Existing_Roads_20191015200548.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

BLUN_423H_Access_Road_20191015200611.pdf

New road type: RESOURCE

Length: 38

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

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

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from BLM caliche pit in SWSW Section 22-T24S-R34E or NENE Section 20-T23S-R33E

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

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

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

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

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

BLUN_423H_1MILE_WELLS_20191015200635.pdf

BLUN_423H_1_Mile_Wells_Map_20191015200717.pdf

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

Submit or defer a Proposed Production Facilities plan? DEFER

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 423H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Brine Water

Water source use type: INTERMEDIATE/PRODUCTION
CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: OTHER

Describe transportation land ownership: Source transportation land ownership is a mixture of Federal, State and County.

Water source volume (barrels): 20000

Source volume (acre-feet): 2.57786193

Source volume (gal): 840000

Water source type: OTHER

Describe type: FRESH WATER

Water source use type: STIMULATION
OTHER
SURFACE CASING

Describe use type: ROAD/PAD CONSTRUCTION AND

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: OTHER

Describe transportation land ownership: Source transportation land ownership is a mixture of Federal, State and County.

Water source volume (barrels): 250000

Source volume (acre-feet): 32.223274

Source volume (gal): 10500000