

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD - HOBBS  
05/13/2020  
RECEIVED

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM122620
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.
2. Name of Operator KAISER FRANCIS OIL COMPANY [12361]		8. Lease Name and Well No. RED HILLS FEDERAL [5467] 605H
3a. Address 6733 S. Yale Ave., Tulsa, OK 74121	3b. Phone No. (include area code) (918) 491-0000	9. API Well No. 30-025-47183
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE / 200 FNL / 2510 FEL / LAT 32.09377 / LONG -103.6109587 At proposed prod. zone SWSE / 100 FSL / 1320 FEL / LAT 32.065572 / LONG -103.60711		10. Field and Pool, or Exploratory [98158] WC-025 G-06 S253329E/UPPER BONE S
14. Distance in miles and direction from nearest town or post office* 25 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T25S/R33E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet		12. County or Parish LEA
16. No of acres in lease 440.2		13. State NM
17. Spacing Unit dedicated to this well 640.0		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet		20. BLM/BIA Bond No. in file FED: WYB000055
19. Proposed Depth 12755 feet / 23523 feet		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3412 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 01/08/2020
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575) 234-2234	Date 04/30/2020
Title Petroleum Engineer		

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 05/13/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS  
Approval Date: 04/30/2020

KZ  
05/15/2020

\*(Instructions on page 2)

# PECOS DISTRICT

## DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	KAISER FRANCIS OIL COMPANY
<b>WELL NAME &amp; NO.:</b>	RED HILLS FEDERAL 605H
<b>SURFACE HOLE FOOTAGE:</b>	200'/N & 2510'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1320'/E
<b>LOCATION:</b>	Section 31, T.25 S., R.33 E., NMP
<b>COUNTY:</b>	Lea County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

### A. HYDROGEN SULFIDE

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

### B. CASING

#### Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **950** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess Cement Calculates to 23.25%, additional cement might be required. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

**Option 1 (Single Stage):**

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

**C. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### **GENERAL REQUIREMENTS**

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

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

#### B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

**RI04292020**





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

## Operator Certification Data Report

05/06/2020

### Operator Certification

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

**NAME:** Stormi Davis

**Signed on:** 01/08/2020

**Title:** Regulatory Analyst

**Street Address:** 106 W. Riverside Drive

**City:** Carlsbad

**State:** NM

**Zip:** 88220

**Phone:** (575)308-3765

**Email address:** nmogrservices@gmail.com

### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



APD ID: 10400053001

Submission Date: 01/08/2020

Highlighted data  
reflects the most  
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS FEDERAL

Well Number: 605H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - General

APD ID: 10400053001

Tie to previous NOS? N

Submission Date: 01/08/2020

BLM Office: CARLSBAD

User: Stormi Davis

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM122620

Lease Acres: 440.2

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: KAISER FRANCIS OIL COMPANY

Operator letter of designation:

## Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Zip: 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa

State: OK

Operator Phone: (918)491-0000

Operator Internet Address:

## Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: RED HILLS FEDERAL

Well Number: 605H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-06  
S253329E

Pool Name: UPPER BONE  
SPRING

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

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

**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:** RED HILLS **Number:** 7

**Well Class:** HORIZONTAL

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** EXPLORATORY (WILDCAT)

**Describe sub-type:**

**Distance to town:** 25 Miles

**Distance to nearest well:** 20 FT

**Distance to lease line:** 200 FT

**Reservoir well spacing assigned acres Measurement:** 640 Acres

**Well plat:** RED\_HILLS\_605H\_C102\_20200108070420.pdf

RED\_HILLS\_\_PAYMENT\_CONF\_20200108131541.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:** 6454B

**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	200	FNL	2510	FEL	25S	33E	31	Aliquot NWNE	32.09377	- 103.6109587	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 122620	3412	0	0	Y
KOP Leg #1	200	FNL	2510	FEL	25S	33E	31	Aliquot NWNE	32.09377	- 103.6109587	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 122620	- 8808	12300	12220	Y

**Operator Name:** KAISER FRANCIS OIL COMPANY**Well Name:** RED HILLS FEDERAL**Well Number:** 605H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-1	0	FNL	1320	FEL	26S	33E	6	Aliquot NWNE	32.0798068	- 103.6071148	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 015321	- 9343	18344	12755	Y
PPP Leg #1-2	100	FNL	1320	FEL	25S	33E	31	Aliquot NWNE	32.094045	- 103.6071168	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 122620	- 9343	13164	12755	Y
EXIT Leg #1	100	FSL	1320	FEL	26S	33E	6	Aliquot SWSE	32.065572	- 103.60711	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 015321	- 9343	23523	12755	Y
BHL Leg #1	100	FSL	1320	FEL	26S	33E	6	Aliquot SWSE	32.065572	- 103.60711	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 015321	- 9343	23523	12755	Y

**We value your feedback!**

Let us know how we did. Complete our [short two minute survey](#).

**Tracking Information**

Pay.gov Tracking ID: 26MM0MMM

Agency Tracking ID: 75923295565

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

Application Name: BLM Oil and Gas Online Payment

**Payment Information**

Payment Type: Bank account (ACH)

Payment Amount: \$112,530.00

Transaction Date: 01/07/2020 06:06:24 PM EST

Payment Date: 01/08/2020

Company: KAISER FRANCIS OIL COMPANY

APD IDs: 10400052977, 10400052992, 10400053005, 10400053006, 10400052983, 10400053001, 10400053004, 10400052994, 10400053000, 10400052998, 10400052997

Lease Numbers: NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620, NMNM-122620

Well Numbers: 201H, 701H, 203H, 703H, 604H, 605H, 705H, 206H, 506H, 606H, 706H

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

**Account Information**

Account Holder Name: Kaiser-Francis Oil Co

Routing Number: 103900036

Account Number: \*\*\*\*\*1125



APD ID: 10400053001

Submission Date: 01/08/2020

Highlighted data  
reflects the most  
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS FEDERAL

Well Number: 605H

[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
628848	---	3412	0	0	OTHER : Surface	NONE	N
628849	RUSTLER	2552	860	860	SANDSTONE	NONE	N
628850	SALADO	2212	1200	1200	SALT	NONE	N
628851	TOP SALT	1412	2000	2000	SALT	NONE	N
628852	BASE OF SALT	-1038	4450	4450	SALT	NONE	N
628853	LAMAR	-1338	4750	4750	SANDSTONE	NATURAL GAS, OIL	N
628854	BELL CANYON	-1458	4870	4870	SANDSTONE	NATURAL GAS, OIL	N
628855	CHERRY CANYON	-2448	5860	5860	SANDSTONE	NATURAL GAS, OIL	N
628856	BRUSHY CANYON	-5188	8600	8600	SANDSTONE	NATURAL GAS, OIL	N
628864	BONE SPRING	-5388	8800	8800	LIMESTONE	NATURAL GAS, OIL	N
628865	AVALON SAND	-5598	9010	9010	SANDSTONE	NATURAL GAS, OIL	N
628859	BONE SPRING 1ST	-6538	9950	9950	SANDSTONE	NATURAL GAS, OIL	N
628866	BONE SPRING 2ND	-7098	10510	10510	SANDSTONE	NATURAL GAS, OIL	N
628867	BONE SPRING LIME	-7538	10950	10950	LIMESTONE	NATURAL GAS, OIL	N
628868	BONE SPRING 3RD	-8273	11685	11685	SANDSTONE	NATURAL GAS, OIL	N
628869	WOLFCAMP	-8658	12070	12070	SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS FEDERAL

Well Number: 605H

Pressure Rating (PSI): 10M

Rating Depth: 15000

**Equipment:** A 10M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. Remote kill line (2 min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3 min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.

**Requesting Variance?** YES

**Variance request:** Flex Hose Variance

**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 stated. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. The Annular shall be functionally operated at least weekly. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

**Choke Diagram Attachment:**

Red\_Hills\_605H\_Choke\_Manifold\_20200107184442.pdf

**BOP Diagram Attachment:**

Cactus\_Flex\_Hose\_16C\_Certification\_20200103112755.pdf

Well\_Control\_Plan\_20200103112759.pdf

Red\_Hills\_605H\_BOP\_20200107184524.pdf

Red\_Hills\_605H\_Wellhead\_Diagram\_20200108132038.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	950	0	950	3412	2462	950	J-55	40.5	ST&C	3.6	7	DRY	10.9	DRY	16.3
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	12127	0	12050		-8638	12127	HCP-110	29.7	LT&C	1.2	1.6	DRY	2.6	DRY	2.6
3	PRODUCTION	6.75	5.5	NEW	API	N	0	23523	0	12755		-9343	23523	P-110	20	OTHER - Eagle SF	1.4	1.6	DRY	2.5	DRY	2.5

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

#### Casing Attachments

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_605H\_Casing\_Assumptions\_20200108072315.pdf

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Red\_Hills\_605H\_Casing\_Assumptions\_20200108072305.pdf

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

5.5\_x\_20\_P110\_HP\_USS\_EAGLE\_SFH\_Performance\_Sheet\_\_20200107185304.pdf

Red\_Hills\_605H\_Casing\_Assumptions\_20200108072327.pdf

---

#### Section 4 - Cement



**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	950	570	1.34	14.8	761	50	Halcem	Bentonite

INTERMEDIATE	Lead		0	1212 7	933	2.77	12	2589	25	NeoCem	Extender
INTERMEDIATE	Tail		0	1212 7	531	1.22	15.6	648	25	Halcem	Accelerator
PRODUCTION	Lead		1000 0	2352 3	724	1.95	12.5	1412	25	Econocem	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 times

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

## Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
950	1205 0	OTHER : Diesel Brine Emulsion	8.8	9.2							
1205 0	1275 5	OIL-BASED MUD	10	12.5							
0	950	OTHER : FRESH WATER	8.4	9							

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

## 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,

**Coring operation description for the well:**

None planned

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 8291

**Anticipated Surface Pressure:** 5484

**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:**

Red\_Hills\_H2S\_Contingency\_Plan\_20200103114217.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Red\_Hills\_605H\_Directional\_Plan\_20200107190045.pdf

**Other proposed operations facets description:**

Gas Capture Plan attached

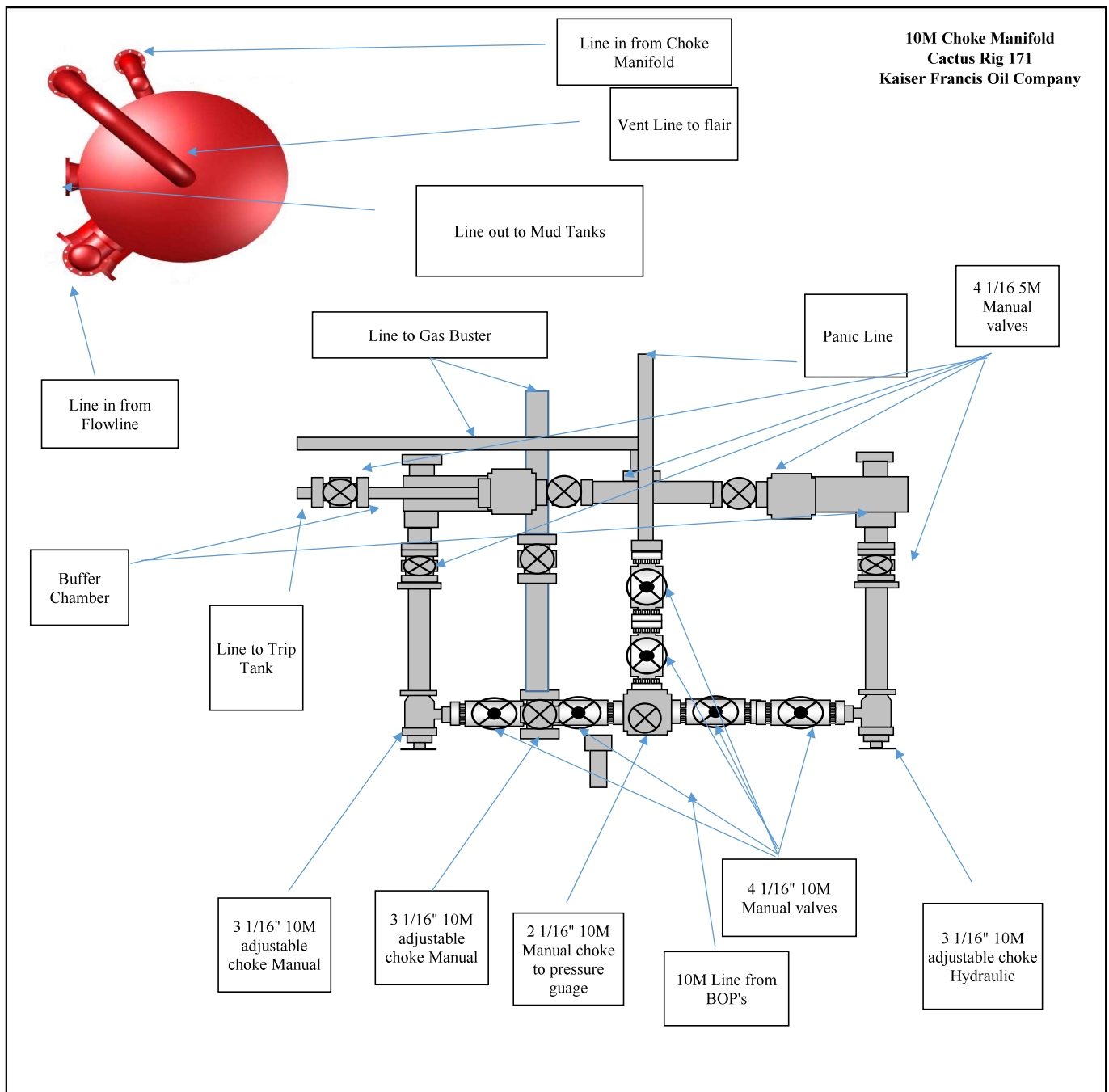
**Other proposed operations facets attachment:**

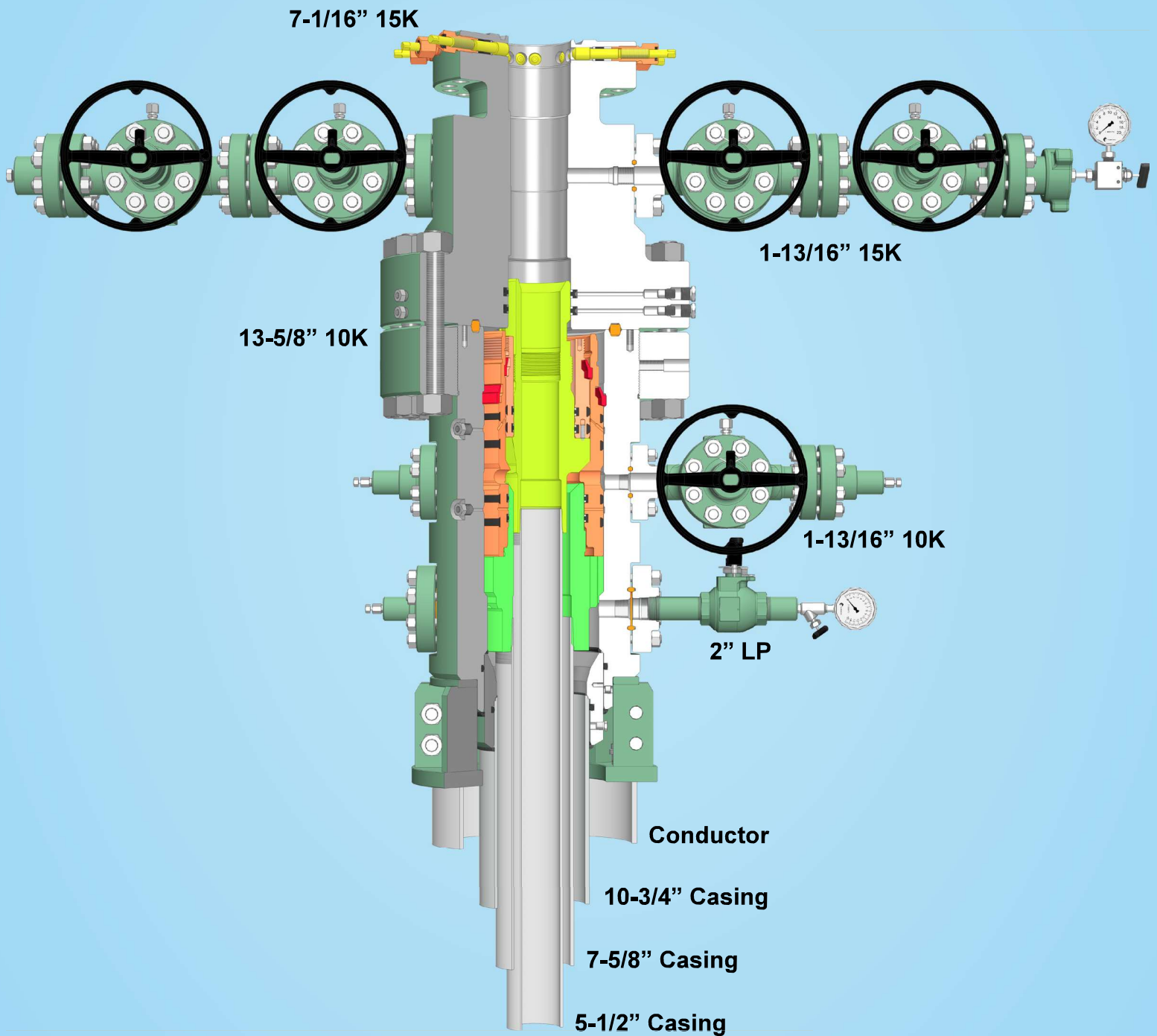
Red\_Hills\_Pad\_7\_Gas\_Capture\_Plan\_20200103114659.pdf

**Other Variance attachment:**

Cactus\_Flex\_Hose\_16C\_Certification\_20200103114733.pdf

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





## Red Hills Federal 605H

## Casing Assumptions

Pipe Specifications									Performance Data					Material Properties					Safety Factors					
Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight	Hole Control	Depth	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	950	10-3/4"	40.5	J-55	STC	New	14.75	950	FW	8.4 - 9.0	910	32 - 34	NC		9	445	1580	3130	629000	420000	3.6	7.0	16.3	10.9
Intermediate	12127	7-5/8"	29.7	HCP-110	LTC	New	9.875	12050	DBE	8.8 - 9.2	11700	34	NC		9.2	5765	7150	9470	940000	922000	1.2	1.6	2.6	2.6
Production	23523	5-1/2"	20	P110 HP	Eagle SF	New	6.75	12755	OBM	10.0 - 12.0	19661	48-52	<10		12	7959	11080	12640	641000	629000	1.4	1.6	2.5	2.5

## Red Hills Federal 605H

## Casing Assumptions

Pipe Specifications									Performance Data					Material Properties					Safety Factors					
Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight	Hole Control	Depth	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																
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Production	23523	5-1/2"	20	P110 HP	Eagle SF	New	6.75	12755	OBM	10.0 - 12.0	19661	48-52	<10		12	7959	11080	12640	641000	629000	1.4	1.6	2.5	2.5



## U. S. Steel Tubular Products

5 1/2 20.00 lb (0.361) P110 HP

USS-EAGLE SFH™

	PIPE	CONNECTION	
<b>MECHANICAL PROPERTIES</b>			
Minimum Yield Strength	125,000		psi
Maximum Yield Strength	140,000		psi
Minimum Tensile Strength	130,000		psi
<b>DIMENSIONS</b>			
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
<b>SECTION AREA</b>			
Cross Sectional Area   Critical Area	5.828	5.027	sq. in.
Joint Efficiency		86.25	%
<b>PERFORMANCE</b>			
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
<b>MAKE-UP DATA</b>			
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).

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 Manuel USS Product Data Sheet 2017 rev26 (Sept)





# 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](http://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](http://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

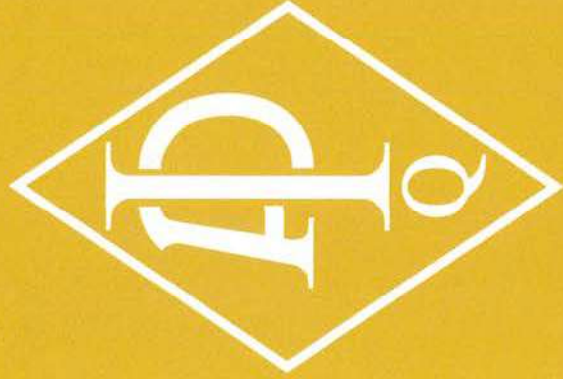
**Effective Date: APRIL 21, 2019**

**Expiration Date: APRIL 21, 2022**

2018-151 | Digital

To verify the authenticity of this license, go to [www.api.org/compositelist](http://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

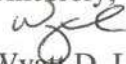
**Subject:** Date: October 7, 2019  
Specialties Company File No.: CSR-32367 / SPECO-83336

**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:**

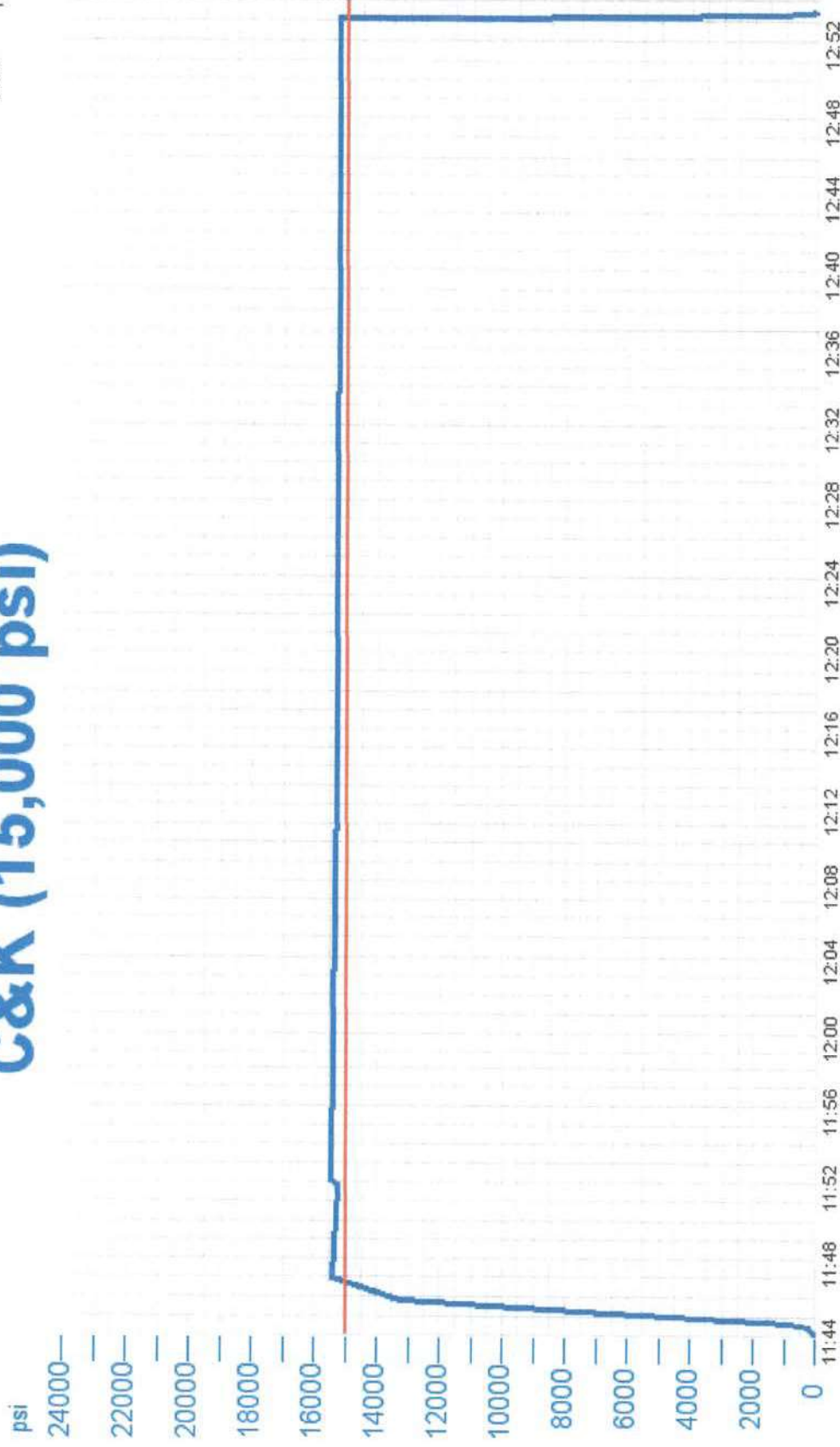
Robert Snider, Quality Manager





# C&K (15,000 psi)

Date 10/03/19



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

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 FLANGE	4-1/16" 10,000# API FLANGE

Operator
Ruben Martinez

Reviewer
Kyle Winters

3rd Party Witness
Robert Syde II



Signature/Date



Signature/Date



Signature/Date



**APD ID:** 10400053001

**Submission Date:** 01/08/2020

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

**Well Type:** OIL WELL

**Well Work Type:** Drill

## Section 1 - General

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

## Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

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

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit specifications:**

**Pit liner description:**

**Pit liner manufacturers information:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule attachment:**

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

**Leak detection system description:**

**Leak detection system attachment:**

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

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

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

### **Section 3 - Unlined Pits**

**Would you like to utilize Unlined Pit PWD options?** N

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

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

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule attachment:**

**Unlined pit reclamation description:**

**Unlined pit reclamation attachment:**

**Unlined pit Monitor description:**

**Unlined pit Monitor attachment:**

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

**Beneficial use user confirmation:**

**Estimated depth of the shallowest aquifer (feet):**

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

**TDS lab results:**

**Geologic and hydrologic evidence:**

**State authorization:**

**Unlined Produced Water Pit Estimated percolation:**

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



**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information attachment:**

#### Section 4 - Injection

**Would you like to utilize Injection PWD options?** N

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

**PWD surface owner:**

**PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

#### Section 5 - Surface Discharge

**Would you like to utilize Surface Discharge PWD options?** N

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

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

#### Section 6 - Other

**Would you like to utilize Other PWD options?** N

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

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Operator Name:** KAISER FRANCIS OIL COMPANY

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



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

## Bond Info Data Report

05/06/2020

**APD ID:** 10400053001

**Submission Date:** 01/08/2020

**Operator Name:** KAISER FRANCIS OIL COMPANY

Highlighted data  
reflects the most  
recent changes

**Well Name:** RED HILLS FEDERAL

**Well Number:** 605H

[Show Final Text](#)

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** WYB000055

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**