

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator [12361]		8. Lease Name and Well No. [316707]
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-48494
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory [98259]
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	12. County or Parish
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	13. State
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	17. Spacing Unit dedicated to this well
24. Attachments		20. BLM/BIA Bond No. in file
23. Estimated duration		

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	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	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 02/03/2021

SL

(Continued on page 2)



Approval Date: 11/30/2020

Kz
02/11/2021

*(Instructions on page 2)



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

Application Data Report

11/30/2020

APD ID: 10400053484

Submission Date: 01/22/2020

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400053484

Tie to previous NOS? N

Submission Date: 01/22/2020

BLM Office: CARLSBAD

User: Melanie Wilson

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMLC0066438

Lease Acres: 479.85

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? Y

Permitting Agent? YES

APD Operator: KAISER FRANCIS OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Zip: 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa

State: OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: OJO CHISO

Pool Name: WOLFCAMP,
SOUTHWEST

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

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**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:** 4**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:** 430 FT**Reservoir well spacing assigned acres Measurement:** 480 Acres**Well plat:** BLUN_205H_C102_20200121091342.pdf

BLUN_205H_Pymt_20200121195413.pdf

Well work start Date: 07/01/2020**Duration:** 40 DAYS**Section 3 - Well Location Table****Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:** 7630A**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	1890	FNL	430	FEL	23S	33E	1	Aliquot SENE	32.335709	-103.5188954	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0068387	3498	0	0	N
KOP Leg #1	2108	FNL	1306	FEL	23S	33E	1	Aliquot SENE	32.3351194	-103.521738	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0068387	-6369	9916	9867	N

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-1	2600	FSL	1370	FEL	23S	33E	1	Aliquot NWSE	32.333546	- 103.521939	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0066438	- 6924	10801	10422	Y
PPP Leg #1-2	0	FNL	1410	FEL	23S	33E	12	Aliquot NWNE	32.326403	- 103.521986	LEA	NEW MEXICO	NEW MEXICO	S	STATE	- 6924	13401	10422	Y
EXIT Leg #1	330	FSL	1410	FEL	23S	33E	12	Aliquot SWSE	32.312796	- 103.522075	LEA	NEW MEXICO	NEW MEXICO	S	STATE	- 6924	18350	10422	Y
BHL Leg #1	330	FSL	1410	FEL	23S	33E	12	Aliquot SWSE	32.312796	- 103.522075	LEA	NEW MEXICO	NEW MEXICO	S	STATE	- 6924	18350	10422	Y

mjp1692@gmail.com

From: notification@pay.gov
Sent: Tuesday, January 21, 2020 7:52 PM
To: mjp1692@gmail.com
Subject: Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment



An official email of the United States government



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

Application Name: BLM Oil and Gas Online Payment
Pay.gov Tracking ID: 26N07H0C
Agency Tracking ID: 75934277237
Transaction Type: Sale
Transaction Date: 01/21/2020 09:52:13 PM EST
Account Holder Name: GEORGE B KAISER
Transaction Amount: \$10,230.00
Card Type: Visa
Card Number: *****0061

Company: Kaiser-Francis Oil Company
APD IDs: 10400053484
Lease Numbers: NMLC0068387
Well Numbers: 205H

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

Drilling Plan Data Report

11/30/2020

APD ID: 10400053484

Submission Date: 01/22/2020

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

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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
639506	---	3498	0	0	OTHER : Surface	NONE	N
639507	RUSTLER	2276	1222	1222	SANDSTONE	NONE	N
639508	SALADO	2006	1492	1492	SALT	NONE	N
639509	TOP SALT	1676	1822	1822	SALT	NONE	N
639510	BASE OF SALT	-1274	4772	4772	SALT	NONE	N
639511	LAMAR	-1574	5072	5072	SANDSTONE	NATURAL GAS, OIL	N
639512	BELL CANYON	-1874	5372	5372	SANDSTONE	NATURAL GAS, OIL	N
639513	CHERRY CANYON	-3074	6572	6572	SANDSTONE	NATURAL GAS, OIL	N
639514	BRUSHY CANYON	-4724	8222	8222	SANDSTONE	NATURAL GAS, OIL	N
639515	BONE SPRING	-4949	8447	8447	LIMESTONE	NATURAL GAS, OIL	N
639516	AVALON SAND	-5264	8762	8762	SANDSTONE	NATURAL GAS, OIL	N
639517	BONE SPRING 1ST	-6199	9697	9697	SANDSTONE	NATURAL GAS, OIL	N
639524	BONE SPRING 2ND	-6724	10222	10222	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Pressure Rating (PSI):** 5M**Rating Depth:** 13000

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

Requesting Variance? YES**Variance request:** Flex Hose Variance MultiBowl Wellhead

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

Choke Diagram Attachment:

BLUN_205H_Choke_Manifold_20200122103446.pdf

BOP Diagram Attachment:

BLUN_205H_Wellhead_20200122103459.pdf

BLUN_205H_BOP_20200122103500.pdf

BLUN_205H_Flex_Hose_20200122103511.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1272	0	1272	3498	2226	1272	J-55	54.5	BUTT	1.9	4.16	DRY	13.1	DRY	12.3
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5092	0	5072		-1574	5092	HCP-110	40	LT&C	1.8	3.4	DRY	6.2	DRY	6.2
3	PRODUCTION	8.75	5.5	NEW	API	N	0	18350	0	10422		-6924	18350	P-110	20	OTHER - GBCD	2.3	2.6	DRY	3.2	DRY	3.1

Casing Attachments

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Casing Attachments**

Casing ID: 1 **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Casing_Assumptions_20200122103750.pdf

Casing ID: 2 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Casing_Assumptions_20200122103617.pdf

Casing ID: 3 **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Prod_Csg_Specs_20200122103641.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1272	695	1.7	13.5	1214	75	HALCEM	4% Bentonite
SURFACE	Tail		0	1272	248	1.3	14.8	331	75	Halcem	0.125 #/sk Poly Flake
INTERMEDIATE	Lead		0	5092	787	2	12.5	1644	50	EconoCem	3#/sk Kol Seal
INTERMEDIATE	Tail		0	5092	536	1.3	14.8	714	50	Halcem	none
PRODUCTION	Lead		4000	18350	425	3.5	10.5	1482	10	NeoCem	2#/sk Kol Seal
PRODUCTION	Tail		4000	18350	1941	1.2	14.5	2374	10	Versacem	none

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
5072	10422	OIL-BASED MUD	8.7	8.9							
1272	5072	OTHER : Diesel-Brine Emulsion	8.7	8.9							
0	1272	OTHER : Fresh Water	8.4	9							

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H

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: 4823

Anticipated Surface Pressure: 2530

Anticipated Bottom Hole Temperature(F): 165

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:

BLUN_H2S_Plan_20200114113955.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_205H_Directional_Plan_20200122104353.pdf

Other proposed operations facets description:

Gas Capture Plan attached

Other proposed operations facets attachment:

BLUN_Pad_4_Gas_Capture_Plan_20200122104430.pdf

Other Variance attachment:

BLUN_205H_Wellhead_20200122104506.pdf

BLUN_205H_Flex_Hose_20200122104518.pdf

**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.

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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:

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

(H₂S concentrations in decimal form)

10,000 ppm +=1.+

1,000 ppm +=.1+

100 ppm +=.01+

10 ppm +=.001+

Calculation for the 500 ppm ROE:

$$X+[(0.4546)(\text{concentration})(Q)]^{(0.6258)}$$

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 $X=[(1.589)(.0150)(200)]^{(0.6258)}$

$$X=2.65'$$

ROE for 500 PPM $X=[(.4546)(.0150)(200)]^{(0.6258)}$

$$X=1.2'$$

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

PUBLIC EVACUATION PLAN:

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

- 1) Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.
- 2) A trained person in 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 205H

Bell Lake Unit North 205H

Bell Lake Unit North 205H

Bell Lake Unit North 205H

Plan: 191213 Bell Lake Unit North 205H

Morcor Standard Plan

13 December, 2019

Morcor Engineering

Morcor Standard Plan



Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 205H
Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	Database:	EDM 5000.1 Single User Db

Project	Bell Lake Unit North 205H		
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 205H		
Site Position:		Northing:	486,819.44 usft
From:	Map	Easting:	792,882.98 usft
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "
		Latitude:	32° 20' 8.554 N
		Longitude:	103° 31' 8.023 W
		Grid Convergence:	0.44 °

Well		Bell Lake Unit North 205H				
Well Position	+N/-S	0.0 usft	Northing:	486,819.44 usft	Latitude:	32° 20' 8.554 N
	+E/-W	0.0 usft	Easting:	792,882.98 usft	Longitude:	103° 31' 8.023 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,498.4 usft

Wellbore	Bell Lake Unit North 205H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/13/2019	6.51	60.08	47,838

Design	191213 Bell Lake Unit North 205H			
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	186.29

Survey Tool Program	Date	12/13/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,350.3	191213 Bell Lake Unit North 205H (Bell La	MWD	MWD - Standard

Morcor Engineering

Morcor Standard Plan



Company: Kaiser Francis
Project: Bell Lake Unit North 205H
Site: Bell Lake Unit North 205H
Well: Bell Lake Unit North 205H
Wellbore: Bell Lake Unit North 205H
Design: 191213 Bell Lake Unit North 205H

Local Co-ordinate Reference: Well Bell Lake Unit North 205H
TVD Reference: WELL @ 3520.4usft (Original Well Elev)
MD Reference: WELL @ 3520.4usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	-3,520.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
100.0	0.00	0.00	100.0	-3,420.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
120.0	0.00	0.00	120.0	-3,400.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
20" Conductor										
200.0	0.00	0.00	200.0	-3,320.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
300.0	0.00	0.00	300.0	-3,220.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
400.0	0.00	0.00	400.0	-3,120.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
500.0	0.00	0.00	500.0	-3,020.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
600.0	0.00	0.00	600.0	-2,920.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
700.0	0.00	0.00	700.0	-2,820.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
800.0	0.00	0.00	800.0	-2,720.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
900.0	0.00	0.00	900.0	-2,620.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,000.0	0.00	0.00	1,000.0	-2,520.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,100.0	0.00	0.00	1,100.0	-2,420.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,200.0	0.00	0.00	1,200.0	-2,320.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,222.0	0.00	0.00	1,222.0	-2,298.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
Rustler										
1,272.0	0.00	0.00	1,272.0	-2,248.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
13 3/8" Surface Casing										
1,300.0	0.00	0.00	1,300.0	-2,220.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,400.0	0.00	0.00	1,400.0	-2,120.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
1,497.0	0.00	0.00	1,497.0	-2,023.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
Salado										
1,500.0	0.00	0.00	1,500.0	-2,020.4	0.0	0.0	792,882.98	486,819.44	0.00	0.00
Start Build 3.00										
1,600.0	3.00	255.83	1,600.0	-1,920.4	-0.6	-2.5	792,880.44	486,818.80	0.91	3.00
1,700.0	6.00	255.83	1,699.6	-1,820.8	-2.6	-10.1	792,872.84	486,816.88	3.66	3.00

Morcor Engineering

Morcor Standard Plan

Kaiser Francis Oil Company

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Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
1,708.1	6.24	255.83	1,707.7	-1,812.7	-2.8	-11.0	792,872.00	486,816.67	3.96	3.00
Start 8208.3 hold at 1708.1 MD										
1,800.0	6.24	255.83	1,799.0	-1,721.4	-5.2	-20.7	792,862.31	486,814.22	7.45	0.00
1,823.1	6.24	255.83	1,822.0	-1,698.4	-5.8	-23.1	792,859.87	486,813.61	8.33	0.00
Top of Salt										
1,900.0	6.24	255.83	1,898.5	-1,621.9	-7.9	-31.2	792,851.77	486,811.56	11.25	0.00
2,000.0	6.24	255.83	1,997.9	-1,522.5	-10.5	-41.8	792,841.22	486,808.90	15.05	0.00
2,100.0	6.24	255.83	2,097.3	-1,423.1	-13.2	-52.3	792,830.68	486,806.24	18.85	0.00
2,200.0	6.24	255.83	2,196.7	-1,323.7	-15.9	-62.8	792,820.13	486,803.57	22.65	0.00
2,300.0	6.24	255.83	2,296.1	-1,224.3	-18.5	-73.4	792,809.59	486,800.91	26.45	0.00
2,400.0	6.24	255.83	2,395.5	-1,124.9	-21.2	-83.9	792,799.05	486,798.25	30.25	0.00
2,500.0	6.24	255.83	2,494.9	-1,025.5	-23.9	-94.5	792,788.50	486,795.59	34.05	0.00
2,600.0	6.24	255.83	2,594.3	-926.1	-26.5	-105.0	792,777.96	486,792.93	37.85	0.00
2,700.0	6.24	255.83	2,693.7	-826.7	-29.2	-115.6	792,767.42	486,790.26	41.66	0.00
2,800.0	6.24	255.83	2,793.1	-727.3	-31.8	-126.1	792,756.87	486,787.60	45.46	0.00
2,900.0	6.24	255.83	2,892.5	-627.9	-34.5	-136.7	792,746.33	486,784.94	49.26	0.00
3,000.0	6.24	255.83	2,991.9	-528.5	-37.2	-147.2	792,735.78	486,782.28	53.06	0.00
3,100.0	6.24	255.83	3,091.3	-429.1	-39.8	-157.7	792,725.24	486,779.62	56.86	0.00
3,200.0	6.24	255.83	3,190.7	-329.7	-42.5	-168.3	792,714.70	486,776.95	60.66	0.00
3,300.0	6.24	255.83	3,290.1	-230.3	-45.1	-178.8	792,704.15	486,774.29	64.46	0.00
3,400.0	6.24	255.83	3,389.6	-130.8	-47.8	-189.4	792,693.61	486,771.63	68.26	0.00
3,500.0	6.24	255.83	3,489.0	-31.4	-50.5	-199.9	792,683.07	486,768.97	72.06	0.00
3,600.0	6.24	255.83	3,588.4	68.0	-53.1	-210.5	792,672.52	486,766.31	75.86	0.00
3,700.0	6.24	255.83	3,687.8	167.4	-55.8	-221.0	792,661.98	486,763.64	79.66	0.00
3,800.0	6.24	255.83	3,787.2	266.8	-58.5	-231.5	792,651.43	486,760.98	83.46	0.00
3,900.0	6.24	255.83	3,886.6	366.2	-61.1	-242.1	792,640.89	486,758.32	87.26	0.00
4,000.0	6.24	255.83	3,986.0	465.6	-63.8	-252.6	792,630.35	486,755.66	91.06	0.00

Morcor Engineering

Morcor Standard Plan



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Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
4,100.0	6.24	255.83	4,085.4	565.0	-66.4	-263.2	792,619.80	486,753.00	94.86	0.00
4,200.0	6.24	255.83	4,184.8	664.4	-69.1	-273.7	792,609.26	486,750.33	98.66	0.00
4,300.0	6.24	255.83	4,284.2	763.8	-71.8	-284.3	792,598.72	486,747.67	102.46	0.00
4,400.0	6.24	255.83	4,383.6	863.2	-74.4	-294.8	792,588.17	486,745.01	106.26	0.00
4,500.0	6.24	255.83	4,483.0	962.6	-77.1	-305.4	792,577.63	486,742.35	110.06	0.00
4,600.0	6.24	255.83	4,582.4	1,062.0	-79.8	-315.9	792,567.09	486,739.69	113.86	0.00
4,700.0	6.24	255.83	4,681.8	1,161.4	-82.4	-326.4	792,556.54	486,737.02	117.67	0.00
4,790.7	6.24	255.83	4,772.0	1,251.6	-84.8	-336.0	792,546.98	486,734.61	121.11	0.00
Base of Salt										
4,800.0	6.24	255.83	4,781.3	1,260.9	-85.1	-337.0	792,546.00	486,734.36	121.47	0.00
4,900.0	6.24	255.83	4,880.7	1,360.3	-87.7	-347.5	792,535.45	486,731.70	125.27	0.00
5,000.0	6.24	255.83	4,980.1	1,459.7	-90.4	-358.1	792,524.91	486,729.04	129.07	0.00
5,092.5	6.24	255.83	5,072.0	1,551.6	-92.9	-367.8	792,515.16	486,726.58	132.58	0.00
Lamar - 9 5/8" Intermediate Casing										
5,100.0	6.24	255.83	5,079.5	1,559.1	-93.1	-368.6	792,514.37	486,726.38	132.87	0.00
5,200.0	6.24	255.83	5,178.9	1,658.5	-95.7	-379.2	792,503.82	486,723.71	136.67	0.00
5,300.0	6.24	255.83	5,278.3	1,757.9	-98.4	-389.7	792,493.28	486,721.05	140.47	0.00
5,394.3	6.24	255.83	5,372.0	1,851.6	-100.9	-399.6	792,483.34	486,718.54	144.05	0.00
Bell Canyon										
5,400.0	6.24	255.83	5,377.7	1,857.3	-101.1	-400.2	792,482.74	486,718.39	144.27	0.00
5,500.0	6.24	255.83	5,477.1	1,956.7	-103.7	-410.8	792,472.19	486,715.73	148.07	0.00
5,600.0	6.24	255.83	5,576.5	2,056.1	-106.4	-421.3	792,461.65	486,713.07	151.87	0.00
5,700.0	6.24	255.83	5,675.9	2,155.5	-109.0	-431.9	792,451.10	486,710.40	155.67	0.00
5,800.0	6.24	255.83	5,775.3	2,254.9	-111.7	-442.4	792,440.56	486,707.74	159.47	0.00
5,900.0	6.24	255.83	5,874.7	2,354.3	-114.4	-453.0	792,430.02	486,705.08	163.27	0.00
6,000.0	6.24	255.83	5,974.1	2,453.7	-117.0	-463.5	792,419.47	486,702.42	167.07	0.00
6,100.0	6.24	255.83	6,073.5	2,553.1	-119.7	-474.1	792,408.93	486,699.76	170.87	0.00

Morcor Engineering

Morcor Standard Plan

Kaiser Francis Oil Company

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Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
6,200.0	6.24	255.83	6,172.9	2,652.5	-122.3	-484.6	792,398.39	486,697.09	174.67	0.00
6,300.0	6.24	255.83	6,272.4	2,752.0	-125.0	-495.1	792,387.84	486,694.43	178.47	0.00
6,400.0	6.24	255.83	6,371.8	2,851.4	-127.7	-505.7	792,377.30	486,691.77	182.27	0.00
6,500.0	6.24	255.83	6,471.2	2,950.8	-130.3	-516.2	792,366.75	486,689.11	186.07	0.00
6,600.0	6.24	255.83	6,570.6	3,050.2	-133.0	-526.8	792,356.21	486,686.45	189.87	0.00
6,601.4	6.24	255.83	6,572.0	3,051.6	-133.0	-526.9	792,356.06	486,686.41	189.93	0.00
Cherry Canyon										
6,700.0	6.24	255.83	6,670.0	3,149.6	-135.7	-537.3	792,345.67	486,683.78	193.68	0.00
6,800.0	6.24	255.83	6,769.4	3,249.0	-138.3	-547.9	792,335.12	486,681.12	197.48	0.00
6,900.0	6.24	255.83	6,868.8	3,348.4	-141.0	-558.4	792,324.58	486,678.46	201.28	0.00
7,000.0	6.24	255.83	6,968.2	3,447.8	-143.6	-568.9	792,314.04	486,675.80	205.08	0.00
7,100.0	6.24	255.83	7,067.6	3,547.2	-146.3	-579.5	792,303.49	486,673.14	208.88	0.00
7,200.0	6.24	255.83	7,167.0	3,646.6	-149.0	-590.0	792,292.95	486,670.47	212.68	0.00
7,300.0	6.24	255.83	7,266.4	3,746.0	-151.6	-600.6	792,282.41	486,667.81	216.48	0.00
7,400.0	6.24	255.83	7,365.8	3,845.4	-154.3	-611.1	792,271.86	486,665.15	220.28	0.00
7,500.0	6.24	255.83	7,465.2	3,944.8	-157.0	-621.7	792,261.32	486,662.49	224.08	0.00
7,600.0	6.24	255.83	7,564.6	4,044.2	-159.6	-632.2	792,250.77	486,659.83	227.88	0.00
7,700.0	6.24	255.83	7,664.1	4,143.7	-162.3	-642.7	792,240.23	486,657.16	231.68	0.00
7,800.0	6.24	255.83	7,763.5	4,243.1	-164.9	-653.3	792,229.69	486,654.50	235.48	0.00
7,900.0	6.24	255.83	7,862.9	4,342.5	-167.6	-663.8	792,219.14	486,651.84	239.28	0.00
8,000.0	6.24	255.83	7,962.3	4,441.9	-170.3	-674.4	792,208.60	486,649.18	243.08	0.00
8,100.0	6.24	255.83	8,061.7	4,541.3	-172.9	-684.9	792,198.06	486,646.52	246.88	0.00
8,200.0	6.24	255.83	8,161.1	4,640.7	-175.6	-695.5	792,187.51	486,643.85	250.68	0.00
8,261.3	6.24	255.83	8,222.0	4,701.6	-177.2	-701.9	792,181.05	486,642.22	253.01	0.00
Brushy Canyon										
8,300.0	6.24	255.83	8,260.5	4,740.1	-178.2	-706.0	792,176.97	486,641.19	254.48	0.00
8,400.0	6.24	255.83	8,359.9	4,839.5	-180.9	-716.6	792,166.42	486,638.53	258.28	0.00

Morcor Engineering

Morcor Standard Plan

Kaiser Francis Oil Company

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8,487.6	6.24	255.83	8,447.0	4,926.6	-183.2	-725.8	792,157.19	486,636.20	261.61	0.00
Bone Spring										
8,500.0	6.24	255.83	8,459.3	4,938.9	-183.6	-727.1	792,155.88	486,635.87	262.08	0.00
8,600.0	6.24	255.83	8,558.7	5,038.3	-186.2	-737.6	792,145.34	486,633.21	265.88	0.00
8,700.0	6.24	255.83	8,658.1	5,137.7	-188.9	-748.2	792,134.79	486,630.54	269.68	0.00
8,800.0	6.24	255.83	8,757.5	5,237.1	-191.6	-758.7	792,124.25	486,627.88	273.49	0.00
8,804.5	6.24	255.83	8,762.0	5,241.6	-191.7	-759.2	792,123.78	486,627.76	273.66	0.00
Avalon										
8,900.0	6.24	255.83	8,856.9	5,336.5	-194.2	-769.3	792,113.71	486,625.22	277.29	0.00
9,000.0	6.24	255.83	8,956.3	5,435.9	-196.9	-779.8	792,103.16	486,622.56	281.09	0.00
9,100.0	6.24	255.83	9,055.8	5,535.4	-199.5	-790.4	792,092.62	486,619.90	284.89	0.00
9,200.0	6.24	255.83	9,155.2	5,634.8	-202.2	-800.9	792,082.07	486,617.23	288.69	0.00
9,300.0	6.24	255.83	9,254.6	5,734.2	-204.9	-811.4	792,071.53	486,614.57	292.49	0.00
9,400.0	6.24	255.83	9,354.0	5,833.6	-207.5	-822.0	792,060.99	486,611.91	296.29	0.00
9,500.0	6.24	255.83	9,453.4	5,933.0	-210.2	-832.5	792,050.44	486,609.25	300.09	0.00
9,600.0	6.24	255.83	9,552.8	6,032.4	-212.9	-843.1	792,039.90	486,606.59	303.89	0.00
9,700.0	6.24	255.83	9,652.2	6,131.8	-215.5	-853.6	792,029.36	486,603.92	307.69	0.00
9,745.1	6.24	255.83	9,697.0	6,176.6	-216.7	-858.4	792,024.60	486,602.72	309.40	0.00
1st BS Sand										
9,800.0	6.24	255.83	9,751.6	6,231.2	-218.2	-864.2	792,018.81	486,601.26	311.49	0.00
9,900.0	6.24	255.83	9,851.0	6,330.6	-220.8	-874.7	792,008.27	486,598.60	315.29	0.00
9,916.4	6.24	255.83	9,867.3	6,346.9	-221.3	-876.4	792,006.54	486,598.16	315.91	0.00
Start DLS 10.00 TFO -76.03										
10,000.0	11.57	211.11	9,950.0	6,429.6	-229.6	-885.2	791,997.79	486,589.86	325.13	10.00
10,100.0	20.74	196.16	10,045.9	6,525.5	-255.2	-895.3	791,987.65	486,564.20	351.74	10.00
10,200.0	30.43	190.29	10,136.0	6,615.6	-297.3	-904.8	791,978.17	486,522.17	394.56	10.00
10,300.0	40.26	187.08	10,217.5	6,697.1	-354.4	-913.3	791,969.64	486,465.04	452.28	10.00

Morcor Engineering

Morcor Standard Plan



Company: Kaiser Francis
Project: Bell Lake Unit North 205H
Site: Bell Lake Unit North 205H
Well: Bell Lake Unit North 205H
Wellbore: Bell Lake Unit North 205H
Design: 191213 Bell Lake Unit North 205H

Local Co-ordinate Reference: Well Bell Lake Unit North 205H
TVD Reference: WELL @ 3520.4usft (Original Well Elev)
MD Reference: WELL @ 3520.4usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
10,305.9	40.84	186.94	10,222.0	6,701.6	-358.2	-913.8	791,969.17	486,461.24	456.10	10.00
2nd BS Sand										
10,400.0	50.14	184.97	10,287.9	6,767.5	-424.9	-920.7	791,962.31	486,394.56	523.14	10.00
10,500.0	60.06	183.39	10,345.0	6,824.6	-506.6	-926.6	791,956.41	486,312.86	604.99	10.00
10,600.0	69.99	182.10	10,387.2	6,866.8	-597.0	-930.9	791,952.12	486,222.43	695.35	10.00
10,700.0	79.93	180.97	10,413.1	6,892.7	-693.4	-933.4	791,949.56	486,126.01	791.47	10.00
10,800.0	89.88	179.90	10,422.0	6,901.6	-792.9	-934.2	791,948.82	486,026.53	890.43	10.00
10,801.2	90.00	179.89	10,422.0	6,901.6	-794.2	-934.2	791,948.82	486,025.29	891.66	10.00
Start 7549.1 hold at 10801.2 MD										
10,900.0	90.00	179.89	10,422.0	6,901.6	-892.9	-934.0	791,949.02	485,926.53	989.80	0.00
11,000.0	90.00	179.89	10,422.0	6,901.6	-992.9	-933.8	791,949.22	485,826.54	1,089.18	0.00
11,100.0	90.00	179.89	10,422.0	6,901.6	-1,092.9	-933.6	791,949.42	485,726.54	1,188.56	0.00
11,200.0	90.00	179.89	10,422.0	6,901.6	-1,192.9	-933.4	791,949.62	485,626.54	1,287.93	0.00
11,300.0	90.00	179.89	10,422.0	6,901.6	-1,292.9	-933.2	791,949.82	485,526.54	1,387.31	0.00
11,400.0	90.00	179.89	10,422.0	6,901.6	-1,392.9	-933.0	791,950.02	485,426.54	1,486.69	0.00
11,500.0	90.00	179.89	10,422.0	6,901.6	-1,492.9	-932.8	791,950.21	485,326.54	1,586.06	0.00
11,600.0	90.00	179.89	10,422.0	6,901.6	-1,592.9	-932.6	791,950.41	485,226.54	1,685.44	0.00
11,700.0	90.00	179.89	10,422.0	6,901.6	-1,692.9	-932.4	791,950.61	485,126.54	1,784.82	0.00
11,800.0	90.00	179.89	10,422.0	6,901.6	-1,792.9	-932.2	791,950.81	485,026.54	1,884.19	0.00
11,900.0	90.00	179.89	10,422.0	6,901.6	-1,892.9	-932.0	791,951.01	484,926.54	1,983.57	0.00
12,000.0	90.00	179.89	10,422.0	6,901.6	-1,992.9	-931.8	791,951.21	484,826.54	2,082.95	0.00
12,100.0	90.00	179.89	10,422.0	6,901.6	-2,092.9	-931.6	791,951.41	484,726.54	2,182.32	0.00
12,200.0	90.00	179.89	10,422.0	6,901.6	-2,192.9	-931.4	791,951.61	484,626.54	2,281.70	0.00
12,300.0	90.00	179.89	10,422.0	6,901.6	-2,292.9	-931.2	791,951.81	484,526.54	2,381.08	0.00
12,400.0	90.00	179.89	10,422.0	6,901.6	-2,392.9	-931.0	791,952.01	484,426.54	2,480.45	0.00
12,500.0	90.00	179.89	10,422.0	6,901.6	-2,492.9	-930.8	791,952.21	484,326.54	2,579.83	0.00
12,600.0	90.00	179.89	10,422.0	6,901.6	-2,592.9	-930.6	791,952.41	484,226.54	2,679.21	0.00

Morcor Engineering

Morcor Standard Plan



Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 205H
Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
12,700.0	90.00	179.89	10,422.0	6,901.6	-2,692.9	-930.4	791,952.61	484,126.54	2,778.58	0.00
12,800.0	90.00	179.89	10,422.0	6,901.6	-2,792.9	-930.2	791,952.81	484,026.54	2,877.96	0.00
12,900.0	90.00	179.89	10,422.0	6,901.6	-2,892.9	-930.0	791,953.01	483,926.54	2,977.34	0.00
13,000.0	90.00	179.89	10,422.0	6,901.6	-2,992.9	-929.8	791,953.21	483,826.54	3,076.71	0.00
13,100.0	90.00	179.89	10,422.0	6,901.6	-3,092.9	-929.6	791,953.41	483,726.54	3,176.09	0.00
13,200.0	90.00	179.89	10,422.0	6,901.6	-3,192.9	-929.4	791,953.61	483,626.54	3,275.47	0.00
13,300.0	90.00	179.89	10,422.0	6,901.6	-3,292.9	-929.2	791,953.81	483,526.54	3,374.84	0.00
13,400.0	90.00	179.89	10,422.0	6,901.6	-3,392.9	-929.0	791,954.01	483,426.54	3,474.22	0.00
13,500.0	90.00	179.89	10,422.0	6,901.6	-3,492.9	-928.8	791,954.21	483,326.54	3,573.60	0.00
13,600.0	90.00	179.89	10,422.0	6,901.6	-3,592.9	-928.6	791,954.41	483,226.54	3,672.97	0.00
13,700.0	90.00	179.89	10,422.0	6,901.6	-3,692.9	-928.4	791,954.61	483,126.54	3,772.35	0.00
13,800.0	90.00	179.89	10,422.0	6,901.6	-3,792.9	-928.2	791,954.81	483,026.54	3,871.73	0.00
13,900.0	90.00	179.89	10,422.0	6,901.6	-3,892.9	-928.0	791,955.01	482,926.54	3,971.10	0.00
14,000.0	90.00	179.89	10,422.0	6,901.6	-3,992.9	-927.8	791,955.21	482,826.54	4,070.48	0.00
14,100.0	90.00	179.89	10,422.0	6,901.6	-4,092.9	-927.6	791,955.41	482,726.54	4,169.86	0.00
14,200.0	90.00	179.89	10,422.0	6,901.6	-4,192.9	-927.4	791,955.60	482,626.54	4,269.23	0.00
14,300.0	90.00	179.89	10,422.0	6,901.6	-4,292.9	-927.2	791,955.80	482,526.54	4,368.61	0.00
14,400.0	90.00	179.89	10,422.0	6,901.6	-4,392.9	-927.0	791,956.00	482,426.54	4,467.99	0.00
14,500.0	90.00	179.89	10,422.0	6,901.6	-4,492.9	-926.8	791,956.20	482,326.54	4,567.36	0.00
14,600.0	90.00	179.89	10,422.0	6,901.6	-4,592.9	-926.6	791,956.40	482,226.54	4,666.74	0.00
14,700.0	90.00	179.89	10,422.0	6,901.6	-4,692.9	-926.4	791,956.60	482,126.54	4,766.12	0.00
14,800.0	90.00	179.89	10,422.0	6,901.6	-4,792.9	-926.2	791,956.80	482,026.54	4,865.49	0.00
14,900.0	90.00	179.89	10,422.0	6,901.6	-4,892.9	-926.0	791,957.00	481,926.54	4,964.87	0.00
15,000.0	90.00	179.89	10,422.0	6,901.6	-4,992.9	-925.8	791,957.20	481,826.54	5,064.25	0.00
15,100.0	90.00	179.89	10,422.0	6,901.6	-5,092.9	-925.6	791,957.40	481,726.54	5,163.62	0.00
15,200.0	90.00	179.89	10,422.0	6,901.6	-5,192.9	-925.4	791,957.60	481,626.54	5,263.00	0.00
15,300.0	90.00	179.89	10,422.0	6,901.6	-5,292.9	-925.2	791,957.80	481,526.54	5,362.38	0.00

Morcor Engineering

Morcor Standard Plan



Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 205H
Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
15,400.0	90.00	179.89	10,422.0	6,901.6	-5,392.9	-925.0	791,958.00	481,426.54	5,461.75	0.00
15,500.0	90.00	179.89	10,422.0	6,901.6	-5,492.9	-924.8	791,958.20	481,326.54	5,561.13	0.00
15,600.0	90.00	179.89	10,422.0	6,901.6	-5,592.9	-924.6	791,958.40	481,226.54	5,660.51	0.00
15,700.0	90.00	179.89	10,422.0	6,901.6	-5,692.9	-924.4	791,958.60	481,126.54	5,759.88	0.00
15,800.0	90.00	179.89	10,422.0	6,901.6	-5,792.9	-924.2	791,958.80	481,026.54	5,859.26	0.00
15,900.0	90.00	179.89	10,422.0	6,901.6	-5,892.9	-924.0	791,959.00	480,926.54	5,958.64	0.00
16,000.0	90.00	179.89	10,422.0	6,901.6	-5,992.9	-923.8	791,959.20	480,826.55	6,058.01	0.00
16,100.0	90.00	179.89	10,422.0	6,901.6	-6,092.9	-923.6	791,959.40	480,726.55	6,157.39	0.00
16,200.0	90.00	179.89	10,422.0	6,901.6	-6,192.9	-923.4	791,959.60	480,626.55	6,256.77	0.00
16,300.0	90.00	179.89	10,422.0	6,901.6	-6,292.9	-923.2	791,959.80	480,526.55	6,356.14	0.00
16,400.0	90.00	179.89	10,422.0	6,901.6	-6,392.9	-923.0	791,960.00	480,426.55	6,455.52	0.00
16,500.0	90.00	179.89	10,422.0	6,901.6	-6,492.9	-922.8	791,960.20	480,326.55	6,554.90	0.00
16,600.0	90.00	179.89	10,422.0	6,901.6	-6,592.9	-922.6	791,960.40	480,226.55	6,654.27	0.00
16,700.0	90.00	179.89	10,422.0	6,901.6	-6,692.9	-922.4	791,960.60	480,126.55	6,753.65	0.00
16,800.0	90.00	179.89	10,422.0	6,901.6	-6,792.9	-922.2	791,960.80	480,026.55	6,853.03	0.00
16,900.0	90.00	179.89	10,422.0	6,901.6	-6,892.9	-922.0	791,960.99	479,926.55	6,952.40	0.00
17,000.0	90.00	179.89	10,422.0	6,901.6	-6,992.9	-921.8	791,961.19	479,826.55	7,051.78	0.00
17,100.0	90.00	179.89	10,422.0	6,901.6	-7,092.9	-921.6	791,961.39	479,726.55	7,151.16	0.00
17,200.0	90.00	179.89	10,422.0	6,901.6	-7,192.9	-921.4	791,961.59	479,626.55	7,250.53	0.00
17,300.0	90.00	179.89	10,422.0	6,901.6	-7,292.9	-921.2	791,961.79	479,526.55	7,349.91	0.00
17,400.0	90.00	179.89	10,422.0	6,901.6	-7,392.9	-921.0	791,961.99	479,426.55	7,449.28	0.00
17,500.0	90.00	179.89	10,422.0	6,901.6	-7,492.9	-920.8	791,962.19	479,326.55	7,548.66	0.00
17,600.0	90.00	179.89	10,422.0	6,901.6	-7,592.9	-920.6	791,962.39	479,226.55	7,648.04	0.00
17,700.0	90.00	179.89	10,422.0	6,901.6	-7,692.9	-920.4	791,962.59	479,126.55	7,747.41	0.00
17,800.0	90.00	179.89	10,422.0	6,901.6	-7,792.9	-920.2	791,962.79	479,026.55	7,846.79	0.00
17,900.0	90.00	179.89	10,422.0	6,901.6	-7,892.9	-920.0	791,962.99	478,926.55	7,946.17	0.00
18,000.0	90.00	179.89	10,422.0	6,901.6	-7,992.9	-919.8	791,963.19	478,826.55	8,045.54	0.00

Morcor Engineering

Morcor Standard Plan

Kaiser Francis Oil Company

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 205H
Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	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)
18,100.0	90.00	179.89	10,422.0	6,901.6	-8,092.9	-919.6	791,963.39	478,726.55	8,144.92	0.00
18,200.0	90.00	179.89	10,422.0	6,901.6	-8,192.9	-919.4	791,963.59	478,626.55	8,244.30	0.00
18,300.0	90.00	179.89	10,422.0	6,901.6	-8,292.9	-919.2	791,963.79	478,526.55	8,343.67	0.00
18,350.3	90.00	179.89	10,422.0	6,901.6	-8,343.2	-919.1	791,963.89	478,476.25	8,393.66	0.00
TD at 18350.3 - 5 1/2" Production Casing										

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
120.0	120.0	20" Conductor	20	26
1,272.0	1,272.0	13 3/8" Surface Casing	13-3/8	17-1/2
5,092.5	5,072.0	9 5/8" Intermediate Casing	9-5/8	12-1/4
18,350.3	10,422.0	5 1/2" Production Casing	5-1/2	8-3/4

Morcor Engineering

Morcor Standard Plan

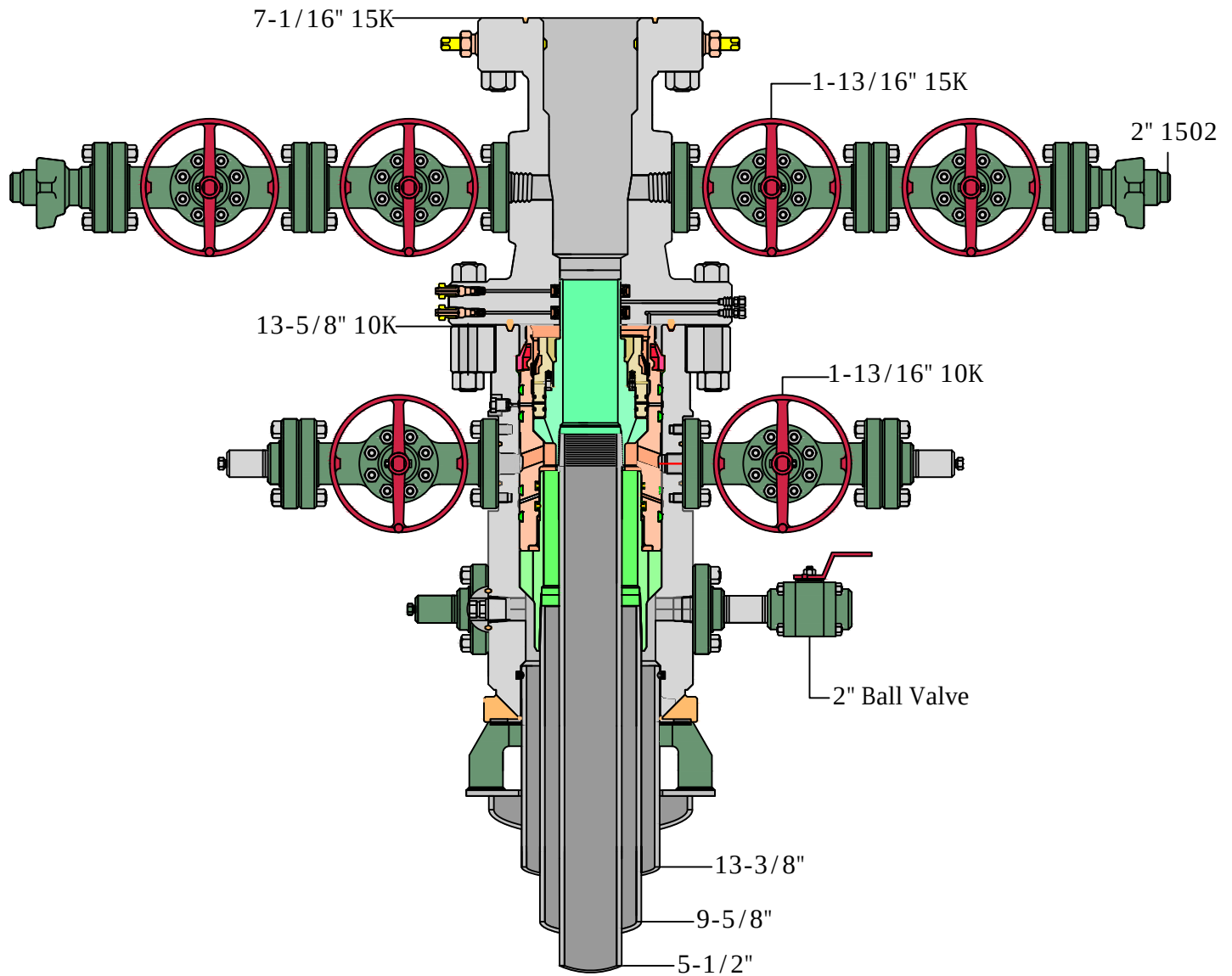
Kaiser Francis Oil Company

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 205H
Project:	Bell Lake Unit North 205H	TVD Reference:	WELL @ 3520.4usft (Original Well Elev)
Site:	Bell Lake Unit North 205H	MD Reference:	WELL @ 3520.4usft (Original Well Elev)
Well:	Bell Lake Unit North 205H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 205H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 205H	Database:	EDM 5000.1 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,092.5	5,072.0	Lamar		0.00		
8,804.5	8,762.0	Avalon		0.00		
5,394.3	5,372.0	Bell Canyon		0.00		
1,222.0	1,222.0	Rustler		0.00		
4,790.7	4,772.0	Base of Salt		0.00		
10,305.9	10,222.0	2nd BS Sand		0.00		
8,261.3	8,222.0	Brushy Canyon		0.00		
8,487.6	8,447.0	Bone Spring		0.00		
1,497.0	1,497.0	Salado		0.00		
9,745.1	9,697.0	1st BS Sand		0.00		
6,601.4	6,572.0	Cherry Canyon		0.00		
1,823.1	1,822.0	Top of Salt		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 3.00	
1,708.1	1,707.7	-2.8	-11.0	Start 8208.3 hold at 1708.1 MD	
9,916.4	9,867.3	-221.3	-876.4	Start DLS 10.00 TFO -76.03	
10,801.2	10,422.0	-794.2	-934.2	Start 7549.1 hold at 10801.2 MD	
18,350.3	10,422.0	-8,343.2	-919.1	TD at 18350.3	

Checked By: _____ Approved By: _____ Date: _____



RKI

CACTUS DRILLING LTR FASTENER

**CACTUS DRILLING
11722 W. HWY 80 E.
ODESSA, TX 79765**

DATE: OCTOBER 7, 2019

**COPPER STATE RUBBER/SPECIALTIES COMPANY
FILE: CSR-32367 / SPECO-83336**

INSPECT, BORESCOPE, AND RECERTIFY CUSTOMER'S CHOKE AND KILL HOSE, API SPEC 16C MONOGRAMMED, FIRE RESISTANT, 10,000 PSI MAWP X 15,000 PSI TEST, COMPLETE WITH 4-1/16" 10,000 PSI API FLANGE ENDS (FIXED X SWIVEL).
1 EA: 3" ID X 35 FT. (S/N: 33974A)

TAB 1

- I. **API CERTIFICATE OF REGISTRATION ISO 9001:2015**
CERTIFICATE NO.: 3042
- II. **API CERTIFICATE OF ACCREDITATION FOR Q1**
REGISTRATION NO.: Q1-3217
- III. **API CERTIFICATE OF ACREDITATION FOR API 16C**
LICENSE NO.: 16C-0383

TAB 2

- I. **CSR CERTIFICATE OF COMPLIANCE**
- II. **COMPLETE ASSEMBLIES VISUAL INSPECTION/HYDROSTATIC TEST REPORTS**
- III. **PRESSURE TRANSDUCER CALIBRATION CERTIFICATE**

TAB 3

- I. **METAL COMPONENT REPORTS**
 - A. **INSERTS:**
 - 1. **BRENDELL 14B2, ENCORE METALS HT-414254**
 - 2. **BRENDELL 14C1, ENCORE METALS HT-418595**
 - B. **4-1/16" 10K API SWIVEL FLANGE (SS BX155 RING GROOVE)**
 - 1. **MACHINE SPECIALTY HEAT CODE V5468**
 - C. **4-1/16" 10K API FIXED FLANGE (SS BX155 RING GROOVE)**
 - 1. **MACHINE SPECIALTY HEAT CODE V4760**

TAB 4

- I. **WELDING PROCEDURES AND QUALIFICATION RECORDS**
 - A. **COPPER STATE RUBBER WPS/PQR NOS.: 911171-1 AND 911171-2, REV. 5 FOR INSERTS TO TERMINATING CONNECTOR WELDMENTS**
 - 1. **STRESS RELIEVING PROCEDURES INCLUDED IN SAME**
 - 2. **SwL REPORT NO.: 930949 QUALIFYING ABOVE WPS FOR CHARPY IMPACTS AT -30°C**
 - B. **WELDING PROCEDURES REVIEWED FOR COMPLIANCE TO LATEST EDITION ASME BOILER & PRESSURE VESSEL CODE SECTION IX**
 - 1. **CSR-WPSR-01, REV.: 1; DATE: 05/02/2018**

TAB 5

- I. NDE REPORTS FOR END FITTINGS TO INSERT WELDMENTS
 - A. STRESS RELIEVING
 - 1. **REPUBLIC HEAT TREAT**
 - A. CERT ID NO.: 39192-1
P.O. NO.: 7929
S/N: 81401-1
 - A. CERT ID NO.: 38120-1
P.O. NO.: 7494
S/N: H1264
 - B. RADIOGRAPHIC INSPECTION
 - 1. **RADIOGRAPHIC SPECIALISTS, INC.**
 - A. P/O NO.: 8037
DATE: 3/7/18
SEAM # 81401-1
 - 2. **RADIOGRAPHIC SPECIALISTS, INC.**
 - A. P/O NO.: 7815
DATE: 11/20/17
SEAM # H1264

TAB 6

- I. FIELD TEST PROCEDURES FOR USED COPPER STATE RUBBER CHOKE/KILL, SUPER CHOKE/KILL AND HP CEMENTING HOSE ASSEMBLIES
- II. COPPER STATE RUBBER 12 MONTH WARRANTY TERMS AND CONDITION



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

SUPO Data Report

11/30/2020

APD ID: 10400053484

Submission Date: 01/22/2020

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

[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_205H_Existing_Roads_20200122104543.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_205H_Access_Road_20200122104601.pdf

New road type: RESOURCE

Length: 1969

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:** 205H**Turnout?** N**Access surfacing type:** OTHER**Access topsoil source:** BOTH**Access surfacing type description:** Native caliche**Access onsite topsoil source depth:** 6**Offsite topsoil source description:** BLM's caliche pit in SWSW Section 22-T24-R34E or NENE Section 20-T23S-R33E.**Onsite topsoil removal process:** The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160 X 160 area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.**Access other construction information:****Access miscellaneous information:****Number of access turnouts:****Access turnout map:**

Drainage Control

New road drainage crossing: OTHER**Drainage Control comments:** Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistent with local drainage patterns.**Road Drainage Control Structures (DCS) description:** The ditches will be 3' wide with 3:1 slopes**Road Drainage Control Structures (DCS) attachment:**

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES**Attach Well map:**

BLUN_205H_1_Mile_Map_20200122104635.pdf

BLUN_205H_1_Mile_Data_20200122104635.pdf

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

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

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Section 5 - Location and Types of Water Supply****Water Source Table****Water source type:** OTHER**Describe type:** Brine Water**Water source use type:** INTERMEDIATE/PRODUCTION
CASING**Source latitude:****Source longitude:****Source datum:****Water source permit type:** PRIVATE CONTRACT**Water source transport method:** TRUCKING**Source land ownership:** PRIVATE**Source transportation land ownership:** STATE**Water source volume (barrels):** 20000**Source volume (acre-feet):** 2.57786193**Source volume (gal):** 840000**Water source type:** OTHER**Describe type:** FRESH WATER**Water source use type:** STIMULATION
OTHER
SURFACE CASING**Describe use type:** ROAD/PAD CONSTRUCTION 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 tra
is a mixture of Federal, State and County.**Water source volume (barrels):** 250000**Source volume (acre-feet):** 32.223274**Source volume (gal):** 10500000

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Water source and transportation map:**

BLUN_Pad_4_Water_Source_Map_20200122104724.pdf

Water source comments: Source transportation land ownership is a mixture of Federal, State and County.**New water well?** N**New Water Well Info****Well latitude:****Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:****Section 6 - Construction Materials****Using any construction materials:** YES**Construction Materials description:** On site caliche will be used for construction if sufficient. In the event insufficient quantities of caliche are available onsite, caliche will be trucked in from BLM's caliche pit in SWSW Section 22-T24-R34E or NENE Section 20-T23S-R33E.**Construction Materials source location attachment:****Section 7 - Methods for Handling Waste****Waste type:** DRILLING**Waste content description:** Drilling fluids and cuttings**Amount of waste:** 3900 barrels**Waste disposal frequency :** Weekly**Safe containment description:** All drilling fluids will be stored safely and disposed of properly

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Cuttings will be hauled to R360's facility located in Section 27-T20S-R32E on US 62/180 at Halfway, NM**Waste type:** SEWAGE**Waste content description:** Human waste and grey water**Amount of waste:** 1000 gallons**Waste disposal frequency :** Weekly**Safe containment description:** Waste material will be stored safely and disposed of properly**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Trucked to an approved disposal facility (Carlsbad sewer plant SENW Section 10-T22S-R27E)**Waste type:** GARBAGE**Waste content description:** Miscellaneous trash**Amount of waste:** 500 pounds**Waste disposal frequency :** Weekly**Safe containment description:** Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Trucked to an approved disposal facility (Sandpoint Landfill (solid materials dump) NW/4 Section 11-T21S-R28E)**Reserve Pit****Reserve Pit being used?** NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)** **Reserve pit width (ft.)****Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner**

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Reserve pit liner specifications and installation description**

Cuttings Area

Cuttings Area being used? NO**Are you storing cuttings on location?** Y**Description of cuttings location** Cuttings will be stored in roll off bins and hauled to R360 located in Section 27-T20S-R32E on US 62/180 near Halfway.**Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities attachment:****Comments:**

Section 9 - Well Site Layout

Well Site Layout Diagram:

BLUN_205H_Well_Site_Layout_20200122104850.pdf

BLUN_205H_Drilling_Layout___Pad_4_20200827111737.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** NORTH BELL LAKE UNIT**Multiple Well Pad Number:** 4**Recontouring attachment:**

BLUN_Pad_4_IR_Plat_20200827111801.pdf

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

Well pad proposed disturbance (acres): 5.96	Well pad interim reclamation (acres): 0.91	Well pad long term disturbance (acres): 5.05
Road proposed disturbance (acres): 1.36	Road interim reclamation (acres): 0	Road long term disturbance (acres): 1.36
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 7.32	Total interim reclamation: 0.91	Total long term disturbance: 6.41

Disturbance Comments:

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: None

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Seed harvest description:****Seed harvest description attachment:****Seed Management****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation attachment:****Operator Contact/Responsible Official Contact Info****First Name:****Last Name:****Phone:****Email:****Seedbed prep:****Seed BMP:****Seed method:****Existing invasive species?** N**Existing invasive species treatment description:****Existing invasive species treatment attachment:****Weed treatment plan description:** No invasive species present. Standard regular maintenance to maintain a clear location and road.**Weed treatment plan attachment:****Monitoring plan description:** Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.**Monitoring plan attachment:****Success standards:** To maintain all disturbed areas as per Gold Book standards**Pit closure description:** N/A**Pit closure attachment:****Section 11 - Surface Ownership**

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

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

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

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

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? Y

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

Other SUPO Attachment



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

PWD Data Report

11/30/2020

APD ID: 10400053484

Submission Date: 01/22/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

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: BELL LAKE UNIT NORTH

Well Number: 205H

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: BELL LAKE UNIT NORTH

Well Number: 205H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

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

11/30/2020

APD ID: 10400053484

Submission Date: 01/22/2020

Highlighted data
reflects the most
recent changes

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 205H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: WYB000055

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

District 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 98259	³ Pool Name Ojo Chiso;Bone Spring, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁶ Well Number 205H ⁹ Elevation 3498.4

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	23 S	33 E		1890	NORTH	430	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	12	23 S	33 E		330	SOUTH	1410	EAST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
480			R-14527A

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.

[illegible]

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

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 01/10/2020

☒ Original

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

☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, 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 205H		1-23S-33E		2000	0	
Bell Lake Unit North 206H		1-23S-33E		2000	0	
Bell Lake Unit North 305H		1-23S-33E		2000	0	
Bell Lake Unit North 306H		1-23S-33E		2000	0	
Bell Lake Unit North 405H		1-23S-33E		2000	0	
Bell Lake Unit North 406H		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

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District III:
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV:
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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 30-025-48494	² Pool Code 98259	³ Pool Name Ojo Chiso; Bone Spring, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁶ Well Number 205H
		⁹ Elevation 3498.4

¹⁰ Surface Location

UL or lot no. H	Section 1	Township 23 S	Range 33 E	Lot Idn	Feet from the 1890	North/South line NORTH	Feet from the 430	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 12	Township 23 S	Range 33 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 1410	East/West line EAST	County LEA
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¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14527A
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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.

NW CORNER SEC. 1 LAT. = 32.3409374°N LONG. = 103.5346038°W NMSP EAST (FT) N = 488684.86 E = 788017.01 W/4 CORNER SEC. 1 LAT. = 32.3336804°N LONG. = 103.5346354°W NMSP EAST (FT) N = 486044.69 E = 788026.92 SW CORNER SEC. 1 LAT. = 32.3284324°N LONG. = 103.5346254°W NMSP EAST (FT) N = 483407.85 E = 788049.66		NW CORNER SEC. 1 LAT. = 32.3409003°N LONG. = 103.5175014°W NMSP EAST (FT) N = 488711.17 E = 793299.16 E/4 CORNER SEC. 1 LAT. = 32.3336453°N LONG. = 103.5175046°W NMSP EAST (FT) N = 486071.76 E = 793318.27 SE CORNER SEC. 1 LAT. = 32.3263895°N LONG. = 103.5175066°W NMSP EAST (FT) N = 483432.09 E = 793337.75	
SEC. 1 LOT 3 LOT 2 LOT 1 LOT 4 BELL LAKE UNIT NORTH 205H ELEV. = 3498.4' LAT. = 32.3357094°N (NAD83) LONG. = 103.5188954°W NMSP EAST (FT) N = 486819.44 E = 792882.98 S49°37'52"W 1226.26 FT S50°06'52"E 7550.39 FT FIRST TAKE POINT 2800' FSL, 1970' FEL LAT. = 32.3335461°N LONG. = 103.5219392°W NMSP EAST (FT) N = 486025.29 E = 791948.82		SEC. 12 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE, VERTICAL DATUM NAVD83. BOTTOM OF HOLE LAT. = 32.3127966°N LONG. = 103.5220754°W NMSP EAST (FT) N = 478476.24 E = 791963.89	
SW CORNER SEC. 12 LAT. = 32.3119169°N LONG. = 103.5346197°W NMSP EAST (FT) N = 478127.09 E = 788090.81		SE CORNER SEC. 12 LAT. = 32.3118795°N LONG. = 103.5175128°W NMSP EAST (FT) N = 478153.30 E = 793376.02	

¹⁷ OPERATOR CERTIFICATION

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

Melanie Wilson 1/21/2020
Signature Date

Melanie Wilson
Printed Name

mjp1692@gmail.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

OCTOBER 28, 2019
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor:

Certificate Number: *[Signature]*
SURVEY NO. 7630A

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 01/10/2020

☒ Original

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

☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, 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 205H		1-23S-33E	30-025-48494	2000	0	
Bell Lake Unit North 206H		1-23S-33E		2000	0	
Bell Lake Unit North 305H		1-23S-33E		2000	0	
Bell Lake Unit North 306H		1-23S-33E		2000	0	
Bell Lake Unit North 405H		1-23S-33E		2000	0	
Bell Lake Unit North 406H		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
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H**Casing Attachments**

Casing ID: 1 **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Casing_Assumptions_20200122103750.pdf

Casing ID: 2 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Casing_Assumptions_20200122103617.pdf

Casing ID: 3 **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**BLUN_205H_Prod_Csg_Specs_20200122103641.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY**Well Name:** BELL LAKE UNIT NORTH**Well Number:** 205H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1272	695	1.7	13.5	1214	75	HALCEM	4% Bentonite
SURFACE	Tail		0	1272	248	1.3	14.8	331	75	Halcem	0.125 #/sk Poly Flake
INTERMEDIATE	Lead		0	5092	787	2	12.5	1644	50	EconoCem	3#/sk Kol Seal
INTERMEDIATE	Tail		0	5092	536	1.3	14.8	714	50	Halcem	none
PRODUCTION	Lead		4000	18350	425	3.5	10.5	1482	10	NeoCem	2#/sk Kol Seal
PRODUCTION	Tail		4000	18350	1941	1.2	14.5	2374	10	Versacem	none

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
5072	10422	OIL-BASED MUD	8.7	8.9							
1272	5072	OTHER : Diesel-Brine Emulsion	8.7	8.9							
0	1272	OTHER : Fresh Water	8.4	9							

Date: 2/3/2021

To: NMOCD

From: Charlotte Van Valkenburg

Re: Closed-Loop System

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

Bell Lake Unit North 205H
Sec. 1-23S-33E
Lea Co., NM

A handwritten signature in black ink, appearing to read "C. Van Valkenburg", is written over the printed name.

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

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CONDITIONS

Action 16780

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK74121			12361	16780	FORM 3160-3
OCD Reviewer	Condition				
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104				
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string				