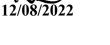
Form 3160-3 (June 2015) UNITED STATES		OMB No	APPROVED 0. 1004-0137 nuary 31, 2018				
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE		5. Lease Serial No.					
APPLICATION FOR PERMIT TO DRILL	OR REENTER	6. If Indian, Allotee	or Tribe Name				
1a. Type of work: DRILL REENT 1b. Type of Well: Oil Well Gas Well Other	ER	7. If Unit or CA Agr	eement, Name and No.				
10. Type of Well. Image: On Well On Well On Well On Well On Well 1c. Type of Completion: Image: Hydraulic Fracturing Image: Single Z	Zone Multiple Zone	8. Lease Name and V	Well No. 316707]				
2. Name of Operator		9. API Well No.	30-025-50835				
[12361] 3a. Address 3b. H	Phone No. (include area code)	10. Field and Pool, c					
50. 1001055	none no. (menue urea coue)		XX				
4. Location of Well (<i>Report location clearly and in accordance with an</i> At surface	ny State requirements.*)	11. Sec., T. R. M. or	Blk. and Survey or Area				
At proposed prod. zone			12.04				
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	13. State				
15. Distance from proposed* 16. N location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 4	No of acres in lease .17. Spaci	ng Unit dedicated to th	his well				
	Proposed Depth 20. BLM.	/BIA Bond No. in file					
	Approximate date work will start*	23. Estimated duration	on				
	Attachments						
The following, completed in accordance with the requirements of Onsh (as applicable)	ore Oil and Gas Order No. 1, and the I	lydraulic Fracturing ru	ile per 43 CFR 3162.3-3				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lan SUPO must be filed with the appropriate Forest Service Office). 	 ds, the 4. Bond to cover the operation Item 20 above). 5. Operator certification. 6. Such other site specific infor BLM. 	2	J X				
25. Signature	Name (Printed/Typed)		Date				
Title							
Approved by (Signature)	Name (Printed/Typed)		Date				
Title Application approval does not warrant or certify that the applicant hold	Office s legal or equitable title to those rights	in the subject lease wh	nich 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 of the United States any false, fictitious or fraudulent statements or repr			ny department or agency				
NGMP Rec 12/02/2022							
	WITH CONDITIONS	K. 12/08	Z /2022				
SL	WITH COMPANY						
(Continued on page 2)	D (10/04/2020	*(Ins	structions on page 2)				

Approval Date: 12/04/2020



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1625 N. French Dr., Hobbs, NM 88240

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

Phone: (575) 393-6161 Fax: (575) 393-0720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District I

District II

District III

District IV

State of New Mexico	Form C-102
Energy, Minerals & Natural Resources Department	Revised August 1, 2011
OIL CONSERVATION DIVISION	Submit one copy to appropriate District Office
1220 South St. Francis Dr.	District Office
Santa Fe, NM 87505	AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ² Pool Code ³ Pool Name												
· 4				* Pool Code								
30-0	25- 50 8	835		98259	59 Ojo Chiso; Bone Spring, Southwest							
⁴ Property (Code				⁵ Property	Name			⁶ Well Number			
316707				BE	ELL LAKE UN	NIT NORTH			332H			
⁷ OGRID N			⁹ Elevation									
12361				KA	ISER-FRANC	CIS OIL CO.				3443.3		
Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
L	5	23 S	34 E		1961	SOUTH	404	WES	ST	LEA		
			пB	ottom Ho	ole Location	If Different Fr	om Surface			•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
D	32	22 S	34 E		330	NORTH	1230	WES	ST	LEA		
¹² Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	1 Code	¹⁵ Order No.							
480												

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.

_	N89'33'05" 2637.04 FT N89'35'23"E 2639.89 FT		"OPERATOR CERTIFICATION
NW CORNER SEC. 32	1070' N/4 CORNER SEC. 32	NE CORNER SEC. 32	I hereby certify that the information contained herein is true and complete to the
LAT. = 32.3554203'N T LONG. = 103.5006833'W o	1230' BOTTOM LÅT. = 32.3554204'N LONG. = 103.4921455'W	$_{\rm Q}$ LONG. = 103.4835984'W	best of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT)	\downarrow OF HOLE NMSP EAST (FT) \downarrow & LTP N = 494054.25	⁴² NMSP EAST (FT) 22 N = 494073.15	working interest or unleased mineral interest in the land including the proposed
N = 494033.60 5 E = 798452.33 °	=	$\approx E = 803728.18$	bottom hole location or has a right to drill this well at this location pursuant to
3. W	BOTTOM OF HOLE & LAST TAKE POINT	14"E	a contract with an owner of such a mineral or working interest, or to a
22 ¹ C	LAT. = 32.3545135'N	.21	voluntary pooling agreement or a compulsory pooling order heretofore entered
W/4 CORNER SEC. 32 C LAT. = 32.3481622'N	LONG. = 103.4967025'W NMSP EAST (FT)	8 E/4 CORNER SEC. 32 LAT. = 32.3481668'N	by the division.
LONG. = 103.5006950'W	N = 493713.30	LONG. = 103.4836134 W	
NMSP EAST (FT) N = 491393.03 늡		NMSP EAST (FT) に N = 491436.17	Stormi Davis 6/17/19
E = 798469.27	」 「「」」 「」」 「」」 「」」 「」」 「」」 「」 「」	E = 803744.47	Signature Date
541	SLC 32	641.	Stormi Davis
~	STATE PLANE VALUES ARE	ت 2	Printed Name
31	I I I I I I I I I I I I I I I I I I I	5,15	
		SECTION CORNER	ssdavis104@gmail.com
LAT. = 32.3409038 N Z	⊐l < LAT. = 32 3409059'N	G LAT. = 32.3409079'N LONG. = 103.4836160E'W	E-mail Address
LONG. = 103.5007079'W NMSP EAST (FT)	N89'32'09"E LONG. = 10 3.4921626'W N89'31'53"E 2639.77 FT NMSP E AST (FT) 26#0.17 FT	NMSP EAST (FT)	
N = 488752.37 🗖	$N = 48 B773.75^{\circ}$ E = 80 1125.01	E = 803764.63	SURVEYOR CERTIFICATION
E = 798485.80	BELL LAKE UNIT NORTH 332H	20.4	I hereby certify that the well location shown on this plat was
2645	ELEV. = 3443.3'	264	plotted from field notes of actual surveys made by me or under
2		ш "	
	NMSP EAST (FT) N = 485433.22	61,16	my supervision, and that the same is true and correct to the
W/4 CORNER SEC. 5	E = 793914.36	8 E/4 CORNER SEC. 5	best of my belief.
LAT. = 32.3336332'N Z LONG. = 103.5007116'W	FTP FIRST TAKE POINT	LAT. = 32.3336418'N LONG. = 103.4836111'W	FEBRUARY 26, 2019 F. JARA
NMSP EAST (FT)	ZOUU FNL, 1360' FWL	NMSP EAST (FT)	
N = 486107.27 E E = 798505.21	LONG. = 103.4963094'W	H = 460131.66 + E = 803787.12	Date of Survey
- 6 .	SURFACE SEC. 5	39.1	A CUP AN Ad
263		56	A MARCA MARKET
SW CORNER SEC. 5 ≥ LAT. = 32.3263820'N g	Image: System S/4 CORNER SEC. 5 CD LAT. = 32,3263863'N	$\stackrel{\text{\tiny LM}}{=}$ SE CORNER SEC. 5 $\stackrel{\text{\tiny CORNER}}{=}$ LAT. = 32.3263890'N	A MARTIN AND A
LONG. = 103.5007113'W	LONG. = 10[3.4921612'W	ස LONG. = 103.4835961'W	Signature and Sear of Professional Surveyor.
NMSP EAST (FT) 6 N = 483469.26 2	NMSP EAST (FT) N = 483491.46	NMSP EAST (FT) N = 483513.32	Certificate Number FILMON F, JARA MILLO, PLS 12797
E = 798525.81	E = 8Q1166.91	E = 803812.68	SURVEY NO. 6990
	S89'31'07"W 2641.67 FT S89'31'35"W 2646.32 FT		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	KAISER FRANCIS OIL COMPANY
LEASE NO.:	NMNM 0001244A
WELL NAME & NO.:	BELL LAKE UNIT NORTH 332H
SURFACE HOLE FOOTAGE:	1961'/S & 404'/W
BOTTOM HOLE FOOTAGE	330'/N & 1230'/W
LOCATION:	Section 5, T.23 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	O Other
Wellhead	Conventional	Multibowl	O Both
Other	4 String Area	Capitan Reef	WIPP
Other	□Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	U Water Disposal	COM	✓ Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **10-3/4** inch surface casing shall be set at approximately **1515 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at **10550 feet**. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- Excess cement calculates to less than 25%; More cement may be needed.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

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

C. PRESSURE CONTROL

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

2. **BOP Requirements**

Option 1

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi.

Option 2

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi.

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

GENERAL REQUIREMENTS

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

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

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

Lea County

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

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

Approval Date: 12/04/2020

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

A. <u>CASING</u>

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

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

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

B. <u>PRESSURE CONTROL</u>

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

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

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

C. <u>DRILLING MUD</u>

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

D. <u>WASTE MATERIAL AND FLUIDS</u>

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

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

RI11252020

Received by OCD: 12/2/2022 1:06:05 PM

WAFMSS

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

APD ID: 10400042805

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: BELL LAKE UNIT NORTH Well Type: OIL WELL

Submission Date: 06/17/2019

Well Number: 332H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400042805	Tie to previous NOS?	Submission Date: 06/17/2019						
BLM Office: CARLSBAD	User: Stormi Davis	Title: Regulatory Analyst						
Federal/Indian APD: FED	Is the first lease penetrated f	for production Federal or Indian? FED						
Lease number: NMNM0001244A	Lease Acres: 634.35							
Surface access agreement in place?	Allotted? Re	eservation:						
Agreement in place? YES	Federal or Indian agreement	Federal or Indian agreement: FEDERAL						
Agreement number: NMNM068292X								
Agreement name: BELL LAKE								
Keep application confidential? YES								
Permitting Agent? NO	APD Operator: KAISER FRAM	APD Operator: KAISER FRANCIS OIL COMPANY						
Operator letter of designation:								

Operator Info

Operator Organization Name: KAIS	SER FRANCIS OIL COMPANY						
Operator Address: 6733 S. Yale Ave. Zip: 7412							
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: 332H	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

12/07/2020

-AAS- STATE

Application Data Report

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

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

Is the propos	sed well in a Helium produ	ction area? N	Use Existing Well Pad?	NO	New surface disturbance?							
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name		Number: 13							
Well Class: H	HORIZONTAL		NORTH BELL LAKE UN Number of Legs: 1	п								
Well Work Ty	/pe: Drill											
Well Type: OIL WELL												
Describe We	Describe Well Type:											
Well sub-Typ	DE: EXPLORATORY (WILDO	CAT)										
Describe sub	o-type:											
Distance to t	own: 20 Miles	Distance to ne	arest well: 30 FT	Distanc	e to lease line: 404 FT							
Reservoir we	ell spacing assigned acres	Measurement:	480 Acres									
Well plat:	BLUN_332H_C102_20190	617091709.pdf										
	Pay.govReceipt_20190	617110546.pdf										
Well work st	art Date: 09/01/2019		Duration: 40 DAYS									

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number: 6990

Vertical Datum: NAVD88

Reference Datum:

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	196	FSL	404	FW	23S	34E	5	Aliquot	32.33177	-	LEA	NEW	NEW	F	NMNM	344	0	0	
Leg	1			L				NWS	1	103.4994		MEXI	MEXI		000058	3			
#1								w		041		co	со		7				
KOP	196	FSL	783	FW	23S	34E	5	Aliquot	32.33176	-	LEA	NEW	NEW	F	NMNM	-	105	105	
Leg	1			L				NWS	36	103.4981		MEXI			000058	712	90	70	
#1								W		757		со	СО		7	7			

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

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	260	FNL	136	FW	23S	34E	5	Aliquot	32.33375		LEA		NEW	F	NMNM	-	118	111	
Leg	0		0	L				SENW	97	103.4963 094		MEXI CO	MEXI CO		000124 4A	774 9	94	92	
#1-1										094		0	00		4A	9			
PPP	0	FSL	129	FW	22S	34E	32	Aliquot	32.34092	-	LEA		NEW	S	STATE	-	145	111	
Leg			1	L				SWS		103.4964			MEXI				00	92	
#1-2								W		481		co	co			9			
EXIT	330	FNL	123	FW	22S	34E	32	Aliquot	32.35451	-	LEA	NEW	NEW	S	STATE	-	194	111	
Leg			0	L				NWN	35	103.4967			MEXI			774	46	92	
#1								W		025		CO	со			9			
BHL	330	FNL	123	FW	22S	34E	32	Aliquot	32.35451	-	LEA	NEW	NEW	S	STATE	-	194	111	
Leg			0	L				NWN	35	103.4967		MEXI	MEXI			774	46	92	
#1								W		025		co	со			9			



Receipt

Tracking Information

Pay.gov Tracking ID: 26I6PQDT

Agency Tracking ID: 75773087522

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

Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Debit or credit card

Payment Amount: \$10,050.00

Transaction Date: 06/17/2019 01:02:49 PM EDT

Payment Date: 06/17/2019

Company: Kaiser-Francis Oil Company

APD IDs: 10400042805

Lease Numbers: NMNM0000587

Well Numbers: 332H

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

Account Information

Resained by OCD: 12/2/2022 1:06:05 PM

Pay.gov - Receipt

Cardholder Name: George B Kaiser

Card Type: Visa

Card Number: ********0061

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

APD ID: 10400042805

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Submission Date: 06/17/2019

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Well Number: 332H

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
478038		3443	0	0		NONE	N
478039	RUSTLER	2261	1182	1182		NONE	N
478040	SALADO	1871	1572	1572		NONE	N
478041	TOP SALT	1671	1772	1772		NONE	N
478042	BASE OF SALT	-1279	4722	4722		NONE	N
478043	LAMAR	-1479	4922	4922		NATURAL GAS, OIL	N
478044	BELL CANYON	-1729	5172	5172		NATURAL GAS, OIL	N
478045	CHERRY CANYON	-2629	6072	6072		NATURAL GAS, OIL	N
478046	BRUSHY CANYON	-4029	7472	7472		NATURAL GAS, OIL	N
478047	BONE SPRING	-5129	8572	8572		NATURAL GAS, OIL	N
478048	AVALON SAND	-5174	8617	8617		NATURAL GAS, OIL	N
478049	BONE SPRING 1ST	-6079	9522	9522		NATURAL GAS, OIL	N
478050	BONE SPRING 2ND	-6589	10032	10032		NATURAL GAS, OIL	N
478055	BONE SPRING LIME	-7079	10522	10522		NATURAL GAS, OIL	N
478056	BONE SPRING 3RD	-7549	10992	10992		NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Released to Imaging: 12/8/2022 2:42:33 PM



Well Name: BELL LAKE UNIT NORTH

Page 17 of 73

Pressure Rating (PSI): 5M

Rating Depth: 18000

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

Variance request: Flex Hose Variance

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and 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_332H_Choke_Manifold_20190617095108.pdf

BOP Diagram Attachment:

BLUN_332H_BOP_20190617095130.pdf

BLUN_332H_FlexHose_20191112120152.pdf

BLUN_332H_Multi_Bowl_Wellhead_20191112120259.pdf

Sect	ion 3 -	Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	1350	0	1305			1350	J-55	40.5	ST&C	2.5	5	DRY	7.7	DRY	11.5
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10550	0	10550			10550	HCP -110	29.7	LT&C	1.4	1.9	DRY	2.5	DRY	3
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	19446	0	11192			19446	P- 110	-	OTHER - Eagle SF	1.9	2.1	DRY	2.8	DRY	3.3

Casing Attachments

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Casing Attachments

Casing ID: 1 String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_332H_Casing_Assumptions_20190617100023.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_332H_Casing_Assumptions_20190617100035.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $5.5_x_20_P110_HP_USS_EAGLE_SFH_Performance_Sheet_20190617100051.pdf$

BLUN_332H_Casing_Assumptions_20190617100052.pdf

Section 4 - Cement

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1207	730	1.75	13.5	1275	75	Halcem	4% Bentonite
SURFACE	Tail		0	1207	300	1.33	14.8	400	75	Halcem	Poly Flake
INTERMEDIATE	Lead		0	1055 0	821	2.77	11	2277	15	Premium C	Extender
INTERMEDIATE	Tail		0	1055 0	437	1.23	15.6	537	15	Halcem	Cemex
PRODUCTION	Lead		1000 0	1944 6	785	1.22	14.5	960	15	Class H	5% Salt

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1055 0	1119 2	OIL-BASED MUD	10	12							
1350	1055 0	OTHER : Diesel- Brine Emulsion	8.7	8.9							
0	1350	OTHER : Fresh Water	8.4	9							

Received by OCD: 12/2/2022 1:06:05 PM

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

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:

DS,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6984

Anticipated Surface Pressure: 4521.76

Anticipated Bottom Hole Temperature(F): 199

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BLUN_Pad_13_H2S_Contingency_Plan_20190531110528.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_332H___Directional_Plan_20190617100815.pdf

Other proposed operations facets description:

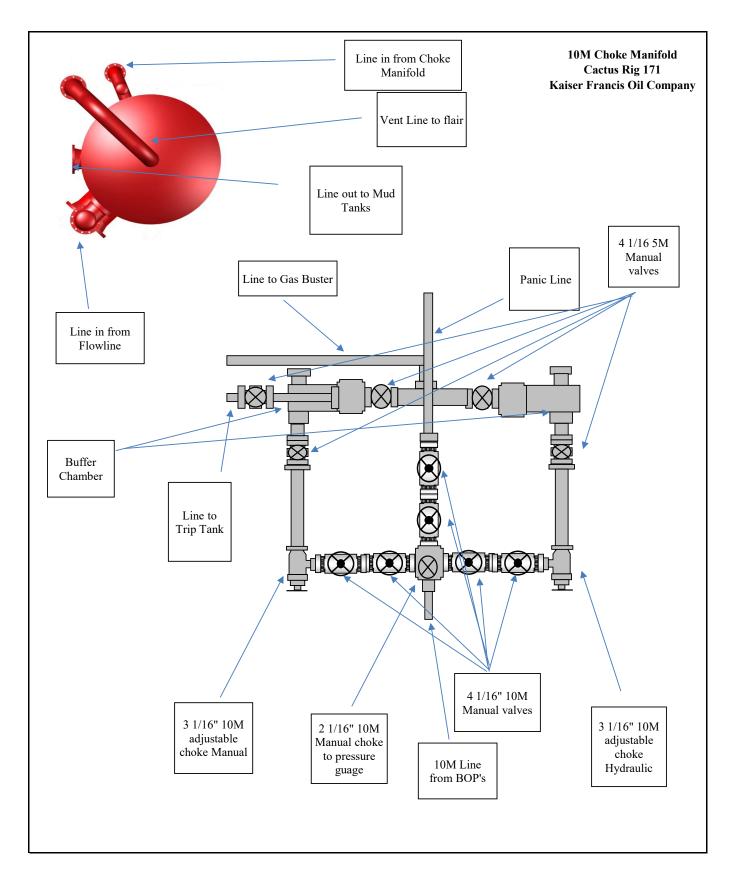
Gas Capture Plan attached

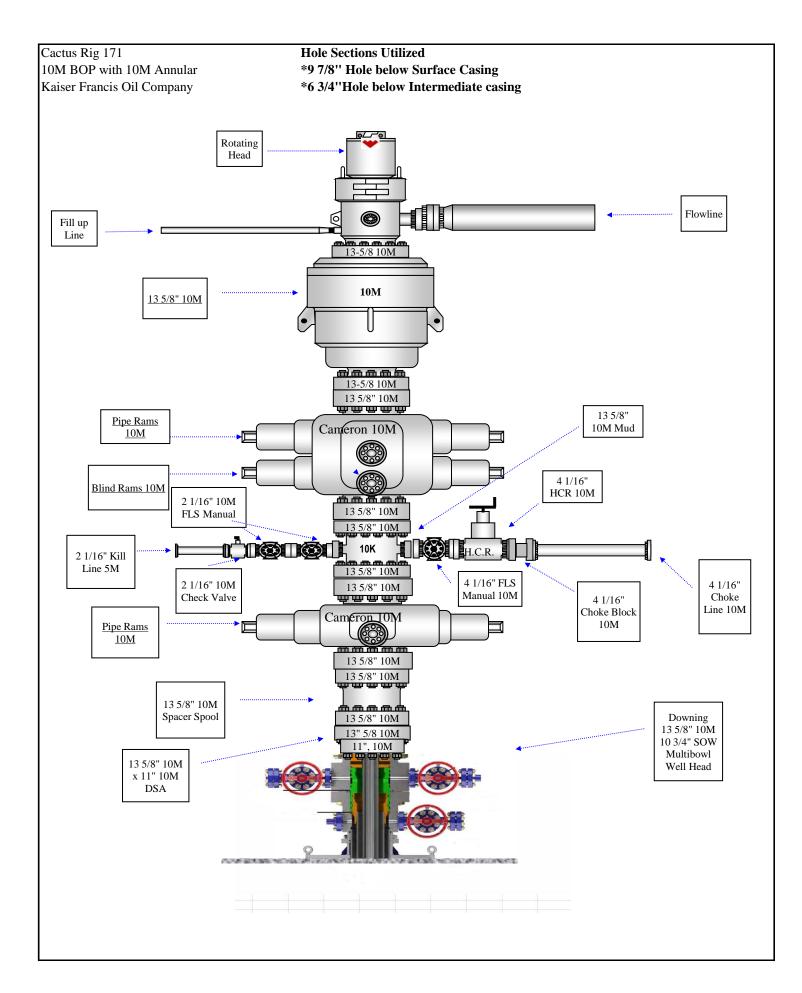
Other proposed operations facets attachment:

BLUN_Pad_13_GCP_20190531110715.pdf

Other Variance attachment:

BLUN_332H_FlexHose_Data_20190617100839.pdf





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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 H_2S , but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

Emergency Response Activation and General Responsibilities	3
Individual Responsibilities During An H ₂ S Release	4
Procedure For Igniting An Uncontrollable Condition	5
Emergency Phone Numbers	6
Protection Of The General Public/Roe	7
Characteristics Of H ₂ S And SO ₂	8
Training	8
Public Relations	8
Maps	

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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:

 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.
- 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)

Kaiser-Francis Oil Co.	<u>OFFCE</u> 918/494-0000	MOBILE
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

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PROTECTION OF THE GENERAL PUBLIC/ROE:

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

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

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

Calculation for the 100 ppm ROE:

 X = [(1.589)(concentration)(Q)] (0.6258)
 (H2S concentrations in decimal form)

 X = [(1.589)(concentration)(Q)] (0.6258)
 10,000 ppm +=1.+

 Calculation for the 500 ppm ROE:
 10,000 ppm +=.01+

 10 ppm +=.01+
 10 ppm +=.001+

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

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

ROE for 100 PPM	X=[(1.589)(.0150)(200)] (0.6258) X=2.65'
ROE for 500 PPM	X=[(.4546)(.0150)(200)] (0.6258) X=1.2'

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

PUBLIC EVACUATION PLAN:

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

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

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

CHARACTERISTICS OF H₂S AND SO₂

TRAINING:

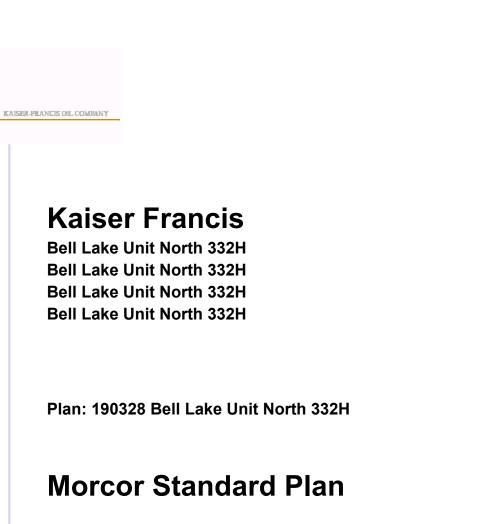
All responders must have training in the detection of H₂S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H₂S monitors at all 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.



29 March, 2019

KAISER-PEANUS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Project: Bell Site: Bell Well: Bell Wellbore: Bell	er Francis Lake Unit North 332H Lake Unit North 332H Lake Unit North 332H Lake Unit North 332H 328 Bell Lake Unit North 3	332H			TVD Refer MD Refere North Refe	ence: erence: liculation Method:	Well Bell Lake Unit North 332H WELL @ 3465.3usft (Original Well Elev) WELL @ 3465.3usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db		
Project	Bell Lake Unit No	orth 332H							
Geo Datum:	US State Plane 1983 North American Datum 19 New Mexico Eastern Zone				System D	Datum:	Mean Sea Level		
Site	Bell Lake Unit No	orth 332H							
Site Position: From: Position Uncertainty:	Lat/Long 1.0 usft		North Eastir Slot R	-	485,433.21 us 798,914.35 us 17-1/2 "		rgence:	32° 19' 54.378 N 103° 29' 57.855 W 0.45 °	
Well	Bell Lake Unit No	orth 332H							
Well Position Position Uncertainty	+N/-S 0.0 +E/-W 0.0 1.0 1.0	usft	Northing Easting: Wellheac	: Elevation:	485,433.21 usft 798,914.35 usft usft	L	atitude: ongitude: iround Level:	32° 19' 54.378 N 103° 29' 57.855 W 3,443.3 usft	
Wellbore	Bell Lake Unit No	orth 332H							
Magnetics	Model Name	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)			
	IGRF2010	3/29/2019		6.59	60.10	47,909			
Design	190328 Bell Lake	Unit North 332H							
Audit Notes: Version:		Phase:	PLAN	Tie On De	pth: 0.0				
Vertical Section:	Dep	oth From (TVD) (usft) 0.0	+N/-S (usft) 0.0	+E/-W (usft) 0.0	Direction (°) 5.31				
	Date 3/29/2019		0.0	0.0	0.01				
Survey Tool Program									
Survey Tool Program From (usft)	To (usft) Survey (W	/ellbore)	Tool Na	me	Description				

3/29/2019 9:14:48AM

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KAISER-PRANCES OIL COMPANY

Morcor Engineering Morcor Standard Plan

Pro Site We We	Company:Kaiser FrancisProject:Bell Lake Unit North 332HSite:Bell Lake Unit North 332HWell:Bell Lake Unit North 332HWellbore:Bell Lake Unit North 332HDesign:190328 Bell Lake Unit North 332H							Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	: :	WELL @ 3465.3usft (Original Well Elev) WELL @ 3465.3usft (Original Well Elev) Grid			
Pla	nned Survey												
	MD (usft)	ln (°		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	-3,465.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	50	0.0	0.00	0.00	50.0	-3,415.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	100	0.0	0.00	90.00	100.0	-3,365.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	120	0.0	0.00	90.00	120.0	-3,345.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	20" Cond												
	150).0	0.00	90.00	150.0	-3,315.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	200	0.0	0.00	90.00	200.0	-3,265.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	250	0.0	0.00	90.00	250.0	-3,215.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	300	0.0	0.00	90.00	300.0	-3,165.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	350	0.0	0.00	90.00	350.0	-3,115.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	400	0.0	0.00	90.00	400.0	-3,065.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	450	0.0	0.00	90.00	450.0	-3,015.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	500	0.0	0.00	90.00	500.0	-2,965.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	550	0.0	0.00	90.00	550.0	-2,915.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	600	0.0	0.00	90.00	600.0	-2,865.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	650	0.0	0.00	90.00	650.0	-2,815.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	700	0.0	0.00	90.00	700.0	-2,765.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	750	0.0	0.00	90.00	750.0	-2,715.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	800	0.0	0.00	90.00	800.0	-2,665.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	850	0.0	0.00	90.00	850.0	-2,615.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	900	0.0	0.00	90.00	900.0	-2,565.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	950).0	0.00	90.00	950.0	-2,515.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	1,000		0.00	90.00	1,000.0	-2,465.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	1,050	0.0	0.00	90.00	1,050.0	-2,415.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	1,100	0.0	0.00	90.00	1,100.0	-2,365.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	
	1,150	0.0	0.00	90.00	1,150.0	-2,315.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00	

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KAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H 190328 Bell Lake Unit North 332H						Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well Bell Lake Unit North 332H WELL @ 3465.3usft (Original Well Elev) WELL @ 3465.3usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db		
Planned Survey											
MD (usft)		ıc °)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
1,	,182.0	0.00	90.00	1,182.0	-2,283.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
Rustle		0.00	00.00	4 000 0	0.005.0	0.0	0.0	700 044 05	405 400 04	0.00	0.00
	,200.0 ,207.0	0.00 0.00	90.00 90.00	1,200.0 1,207.0	-2,265.3 -2,258.3	0.0 0.0	0.0 0.0	798,914.35 798,914.35	485,433.21 485,433.21	0.00 0.00	0.00 0.00
	" Surface Casir		30.00	1,207.0	-2,200.0	0.0	0.0	730,314.00	400,400.21	0.00	0.00
	,250.0	0.00	90.00	1,250.0	-2,215.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,300.0	0.00	90.00	1,300.0	-2,165.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,350.0	0.00	90.00	1,350.0	-2,115.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
	,400.0	0.00	90.00	1,400.0	-2,065.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,450.0	0.00	90.00	1,450.0	-2,015.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,500.0	0.00	90.00	1,500.0	-1,965.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,550.0	0.00	90.00	1,550.0	-1,915.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,572.0	0.00	90.00	1,572.0	-1,893.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
Salado	0										
1,	,600.0	0.00	90.00	1,600.0	-1,865.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,650.0	0.00	90.00	1,650.0	-1,815.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,700.0	0.00	90.00	1,700.0	-1,765.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,750.0	0.00	90.00	1,750.0	-1,715.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,772.0	0.00	90.00	1,772.0	-1,693.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
Top of	f Salt										
1,	,800.0	0.00	90.00	1,800.0	-1,665.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,850.0	0.00	90.00	1,850.0	-1,615.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,900.0	0.00	90.00	1,900.0	-1,565.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
1,	,950.0	0.00	90.00	1,950.0	-1,515.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
2,	,000.0	0.00	90.00	2,000.0	-1,465.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
2,	,050.0	0.00	90.00	2,050.0	-1,415.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
2,	,100.0	0.00	90.00	2,100.0	-1,365.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00
2,	,150.0	0.00	90.00	2,150.0	-1,315.3	0.0	0.0	798,914.35	485,433.21	0.00	0.00

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KAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

npany: iect: : l: lbore: ign:	Kaiser Francis Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H 190328 Bell Lake Unit North 332H					Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well Bell Lake Unit North 332H WELL @ 3465.3usft (Original Well Elev) WELL @ 3465.3usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db			
nned Survey MD	Inc		Azi (azimuth)	TVD	TVDSS	N/S	E/W	Easting	Northing	V. Sec	DLeg
(usft)	(°)		(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
2,200	0.0	0.00	90.00	2,200.0	-1,265.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,250	0.0	0.00	90.00	2,250.0	-1,215.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,300	0.0	0.00	90.00	2,300.0	-1,165.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,350	0.0	0.00	90.00	2,350.0	-1,115.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,400	0.0	0.00	90.00	2,400.0	-1,065.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,450	0.0	0.00	90.00	2,450.0	-1,015.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,500	0.0	0.00	90.00	2,500.0	-965.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,550		0.00	90.00	2,550.0	-915.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,600	0.0	0.00	90.00	2,600.0	-865.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,650	0.0	0.00	90.00	2,650.0	-815.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,700	0.0	0.00	90.00	2,700.0	-765.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,750	0	0.00	90.00	2,750.0	-715.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,750		0.00	90.00	2,750.0	-665.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,850		0.00	90.00	2,850.0	-615.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,900		0.00	90.00	2,900.0	-565.3	0.0	0.0	798,914.35	485,433.21	0.00	
2,950		0.00	90.00	2,950.0	-515.3	0.0	0.0	798,914.35	485,433.21	0.00	
,								,			
3,000		0.00	90.00	3,000.0	-465.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,050		0.00	90.00	3,050.0	-415.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,100 3,150		0.00 0.00	90.00 90.00	3,100.0 3,150.0	-365.3 -315.3	0.0 0.0	0.0 0.0	798,914.35 798,914.35	485,433.21	0.00 0.00	
3,150		0.00	90.00 90.00	3,150.0	-315.3 -265.3	0.0	0.0	798,914.35 798,914.35	485,433.21 485,433.21	0.00	
3,200	J.U	0.00	90.00	3,200.0	-203.3	0.0	0.0	190,914.35	400,400.21	0.00	
3,250		0.00	90.00	3,250.0	-215.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,300	0.0	0.00	90.00	3,300.0	-165.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,350		0.00	90.00	3,350.0	-115.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,400		0.00	90.00	3,400.0	-65.3	0.0	0.0	798,914.35	485,433.21	0.00	
3,450	0.0	0.00	90.00	3,450.0	-15.3	0.0	0.0	798,914.35	485,433.21	0.00	

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COMPASS 5000.1 Build 56

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3,500.0

RAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H Bell Lake Unit North 332H 190328 Bell Lake Unit North 332H						Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well Bell Lake Unit North 332H WELL @ 3465.3usft (Original Well Elev WELL @ 3465.3usft (Original Well Elev Grid Minimum Curvature 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)
3,55	50.0	0.00	90.00	3,550.0	84.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,60	0.0	0.00	90.00	3,600.0	134.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,65	50.0	0.00	90.00	3,650.0	184.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,70	0.0	0.00	90.00	3,700.0	234.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,75	50.0	0.00	90.00	3,750.0	284.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,80	0.0	0.00	90.00	3,800.0	334.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,85	50.0	0.00	90.00	3,850.0	384.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,90	0.0	0.00	90.00	3,900.0	434.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
3,95	50.0	0.00	90.00	3,950.0	484.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,00	0.0	0.00	90.00	4,000.0	534.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,05	50.0	0.00	90.00	4,050.0	584.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,10	0.0	0.00	90.00	4,100.0	634.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,15	50.0	0.00	90.00	4,150.0	684.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,20	0.0	0.00	90.00	4,200.0	734.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,25	50.0	0.00	90.00	4,250.0	784.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,30	0.0	0.00	90.00	4,300.0	834.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,35	50.0	0.00	90.00	4,350.0	884.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,40	0.0	0.00	90.00	4,400.0	934.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,45	50.0	0.00	90.00	4,450.0	984.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,50	0.0	0.00	90.00	4,500.0	1,034.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,55	50.0	0.00	90.00	4,550.0	1,084.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,60	0.0	0.00	90.00	4,600.0	1,134.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,65	50.0	0.00	90.00	4,650.0	1,184.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,70	0.0	0.00	90.00	4,700.0	1,234.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,72	22.0	0.00	90.00	4,722.0	1,256.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
Base of											
4,75	50.0	0.00	90.00	4,750.0	1,284.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00

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RAISER-PRANCES OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Vell: Vellbore: Design:	Kaiser Francis Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 190328 Bell Lake Unit	332H 332H 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	ə:	-	ft (Original Well Elev ft (Original Well Elev e	
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)
4,800	.0 0.00	90.00	4,800.0	1,334.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,850	.0 0.00	90.00	4,850.0	1,384.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,900	.0 0.00	90.00	4,900.0	1,434.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
4,922	.0 0.00	90.00	4,922.0	1,456.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
Lamar		00.00	4.050.0	4 404 7	0.0	0.0	700 044 05	405 400 04	0.00	0.00
4,950			4,950.0	1,484.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,000			5,000.0	1,534.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,050 5,100			5,050.0 5,100.0	1,584.7 1,634.7	0.0 0.0	0.0 0.0	798,914.35 798,914.35	485,433.21 485,433.21	0.00 0.00	0.00 0.00
				,			,			
5,147		90.00	5,147.0	1,681.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
9 5/8" Inte 5,150	ermediate Casing	90.00	5,150.0	1,684.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,150			5,150.0	1,706.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
		90.00	5,172.0	1,700.7	0.0	0.0	796,914.35	465,455.21	0.00	0.00
Bell Cany 5,200		90.00	5,200.0	1,734.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,250	.0 0.00	90.00	5,250.0	1,784.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,300	.0 0.00	90.00	5,300.0	1,834.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,350			5,350.0	1,884.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,400			5,400.0	1,934.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,450			5,450.0	1,984.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,500			5,500.0	2,034.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,550	.0 0.00	90.00	5,550.0	2,084.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,600	.0 0.00	90.00	5,600.0	2,134.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,650	.0 0.00	90.00	5,650.0	2,184.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,700	.0 0.00	90.00	5,700.0	2,234.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,750	.0 0.00	90.00	5,750.0	2,284.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00
5,800	.0 0.00	90.00	5,800.0	2,334.7	0.0	0.0	798,914.35	485,433.21	0.00	0.00

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Morcor Engineering Morcor Standard Plan

mpany: oject: e: ell: ellbore: sign:	Kaiser Francis Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North 190328 Bell Lake Ur	332H 332H 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	::	-	ft (Original Well Elev ft (Original Well Elev e	,
anned 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)
5,850	0.0 0.0	0 90.00	5,850.0	2,384.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
5,900	0.0 0.0	0 90.00	5,900.0	2,434.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
5,950	0.0 0.0	0 90.00	5,950.0	2,484.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,000	0.0 0.0	0 90.00	6,000.0	2,534.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,050	0.0 0.0	0 90.00	6,050.0	2,584.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,072			6,072.0	2,606.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
Cherry Ca	anyon									
6,100	-	0 90.00	6,100.0	2,634.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,150	0.0 0.0	0 90.00	6,150.0	2,684.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,200	0.0 0.0	0 90.00	6,200.0	2,734.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,250	0.0 0.0	0 90.00	6,250.0	2,784.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,300	0.0 0.0	0 90.00	6,300.0	2,834.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,350	0.0 0.0	0 90.00	6,350.0	2,884.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,400	0.0 0.0	0 90.00	6,400.0	2,934.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,450	0.0 0.0	0 90.00	6,450.0	2,984.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,500	0.0 0.0	0 90.00	6,500.0	3,034.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,550	0.0 0.0	0 90.00	6,550.0	3,084.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,600	0.0 0.0	0 90.00	6,600.0	3,134.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,650	0.0 0.0	0 90.00	6,650.0	3,184.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,700	0.0 0.0	0 90.00	6,700.0	3,234.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,750	0.0 0.0	0 90.00	6,750.0	3,284.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,800	0.0 0.0	0 90.00	6,800.0	3,334.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,850	0.0 0.0	0 90.00	6,850.0	3,384.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
6,860	0.0 0.0	0 90.00	6,860.0	3,394.7	0.0	0.0	798,914.35	485,433.21	0.00	0.0
Start Buil										
6,900	0.0 1.2	0 90.00	6,900.0	3,434.7	0.0	0.4	798,914.77	485,433.21	0.04	3.0
6,950	0.0 2.7	0 90.00	6,950.0	3,484.7	0.0	2.1	798,916.47	485,433.21	0.20	3.0

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Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 332H 190328 Bell Lake Unit North 332H ey Inc Azi (azimuth) TVD					Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	:	-	ft (Original Well Elev ft (Original Well Elev e	
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)
7,000	0.0 4.20		6,999.9	3,534.6	0.0	5.1	798,919.48	485,433.21	0.47	3.00
7,050	0.0 5.70	90.00	7,049.7	3,584.4	0.0	9.4	798,923.79	485,433.21	0.87	3.00
7,060	0.0 6.00	90.00	7,059.6	3,594.3	0.0	10.5	798,924.81	485,433.21	0.97	3.00
Start 353	0.0 hold at 7060.0 MD									
7,100	0.0 6.00	90.00	7,099.4	3,634.1	0.0	14.6	798,928.99	485,433.21	1.35	0.00
7,150	0.0 6.00	90.00	7,149.1	3,683.8	0.0	19.9	798,934.22	485,433.21	1.84	0.00
7,200	0.0 6.00	90.00	7,198.9	3,733.6	0.0	25.1	798,939.45	485,433.21	2.32	0.00
7,250	0.0 6.00	90.00	7,248.6	3,783.3	0.0	30.3	798,944.67	485,433.21	2.81	0.00
7,300	0.0 6.00	90.00	7,298.3	3,833.0	0.0	35.5	798,949.90	485,433.21	3.29	0.00
7,350	0.0 6.00	90.00	7,348.0	3,882.7	0.0	40.8	798,955.13	485,433.21	3.77	0.00
7,400	0.0 6.00	90.00	7,397.8	3,932.5	0.0	46.0	798,960.35	485,433.21	4.26	0.00
7,450			7,447.5	3,982.2	0.0	51.2	798,965.58	485,433.21	4.74	0.00
7,474	4.6 6.00	90.00	7,472.0	4,006.7	0.0	53.8	798,968.15	485,433.21	4.98	0.00
Brushy C	anvon									
7,500		90.00	7,497.2	4,031.9	0.0	56.5	798,970.80	485,433.21	5.22	0.00
7,550	0.0 6.00	90.00	7,547.0	4,081.7	0.0	61.7	798,976.03	485,433.21	5.71	0.00
7,600	0.0 6.00	90.00	7,596.7	4,131.4	0.0	66.9	798,981.26	485,433.21	6.19	0.00
7,650	0.0 6.00	90.00	7,646.4	4,181.1	0.0	72.1	798,986.48	485,433.21	6.67	0.00
7,700	0.0 6.00	90.00	7,696.1	4,230.8	0.0	77.4	798,991.71	485,433.21	7.16	0.00
7,750	0.0 6.00	90.00	7,745.9	4,280.6	0.0	82.6	798,996.94	485,433.21	7.64	0.00
7,800	0.0 6.00	90.00	7,795.6	4,330.3	0.0	87.8	799,002.16	485,433.21	8.12	0.00
7,850	0.0 6.00	90.00	7,845.3	4,380.0	0.0	93.0	799,007.39	485,433.21	8.61	0.00
7,900			7,895.0	4,429.7	0.0	98.3	799,012.62	485,433.21	9.09	0.00
7,950	0.0 6.00	90.00	7,944.8	4,479.5	0.0	103.5	799,017.84	485,433.21	9.58	0.00
8,000	0.0 6.00	90.00	7,994.5	4,529.2	0.0	108.7	799,023.07	485,433.21	10.06	0.00
8,050	0.0 6.00	90.00	8,044.2	4,578.9	0.0	113.9	799,028.30	485,433.21	10.54	0.00
8,100	0.0 6.00	90.00	8,093.9	4,628.6	0.0	119.2	799,033.52	485,433.21	11.03	0.00

Morcor Engineering Morcor Standard Plan

EAISER-PEANCES OIL COMPANY				Morc	or Standard Plan	1				
Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North 190328 Bell Lake Un	332H 332H 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	e:	-	oft (Original Well Elev oft (Original Well Elev e	
Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
8,150	0.0 6.0	0 90.00	8,143.7	4,678.4	0.0	124.4	799,038.75	485,433.21	11.51	0.00
8,200	0.0 6.0	0 90.00	8,193.4	4,728.1	0.0	129.6	799,043.97	485,433.21	11.99	0.00
8,250	0.0 6.0	0 90.00	8,243.1	4,777.8	0.0	134.9	799,049.20	485,433.21	12.48	0.00
8,300	0.0 6.0	0 90.00	8,292.8	4,827.5	0.0	140.1	799,054.43	485,433.21	12.96	0.00
8,350	0.0 6.0	0 90.00	8,342.6	4,877.3	0.0	145.3	799,059.65	485,433.21	13.44	0.00
8,400	0.0 6.0	0 90.00	8,392.3	4,927.0	0.0	150.5	799,064.88	485,433.21	13.93	0.00
8,450	0.0 6.0	0 90.00	8,442.0	4,976.7	0.0	155.8	799,070.11	485,433.21	14.41	0.00
8,500	0.0 6.0	0 90.00	8,491.7	5,026.4	0.0	161.0	799,075.33	485,433.21	14.89	0.00
8,550	0.0 6.0	0 90.00	8,541.5	5,076.2	0.0	166.2	799,080.56	485,433.21	15.38	0.00
8,580	0.7 6.0	0 90.00	8,572.0	5,106.7	0.0	169.4	799,083.77	485,433.21	15.67	0.00
Bone Spr	-		0.504.0	5 405 0			700 005 70		15.00	
8,600			8,591.2	5,125.9	0.0	171.4	799,085.79	485,433.21	15.86	0.00
8,625	6.9 6.0	0 90.00	8,617.0	5,151.7	0.0	174.1	799,088.50	485,433.21	16.11	0.00
Avalon 8,650	0.0 6.0	0 90.00	8,640.9	5,175.6	0.0	176.7	799,091.01	485,433.21	16.35	0.00
8,700			8,690.7	5,225.4	0.0	181.9	799,096.24	485,433.21	16.83	0.00
							,			
8,750			8,740.4	5,275.1	0.0	187.1	799,101.47	485,433.21	17.31	0.00
8,800			8,790.1	5,324.8	0.0	192.3	799,106.69	485,433.21	17.80	0.00
8,850			8,839.8	5,374.5	0.0	197.6	799,111.92	485,433.21	18.28	0.00
8,900 8,950			8,889.6 8,939.3	5,424.3 5,474.0	0.0 0.0	202.8 208.0	799,117.14 799,122.37	485,433.21 485,433.21	18.76 19.25	0.00 0.00
0,950	.0 6.0	0 90.00	0,939.3	5,474.0	0.0	206.0	799,122.37	405,433.21	19.25	0.00
9,000	0.0 6.0	0 90.00	8,989.0	5,523.7	0.0	213.2	799,127.60	485,433.21	19.73	0.00
9,050			9,038.7	5,573.4	0.0	218.5	799,132.82	485,433.21	20.21	0.00
9,100			9,088.5	5,623.2	0.0	223.7	799,138.05	485,433.21	20.70	0.00
9,150			9,138.2	5,672.9	0.0	228.9	799,143.28	485,433.21	21.18	0.00
9,200	0.0 6.0	0 90.00	9,187.9	5,722.6	0.0	234.2	799,148.50	485,433.21	21.66	0.00
9,250	0.0 6.0	0 90.00	9,237.6	5,772.3	0.0	239.4	799,153.73	485,433.21	22.15	0.00

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Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North 190328 Bell Lake Un	332H 332H 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	::	-	ft (Original Well Elev ft (Original Well Elev e	,
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)
9,30	0.0 6.0	90.00	9,287.4	5,822.1	0.0	244.6	799,158.96	485,433.21	22.63	0.00
9,35	6.0	90.00	9,337.1	5,871.8	0.0	249.8	799,164.18	485,433.21	23.11	0.00
9,40	0.0 6.0	90.00	9,386.8	5,921.5	0.0	255.1	799,169.41	485,433.21	23.60	0.00
9,45	6.0	90.00	9,436.5	5,971.2	0.0	260.3	799,174.64	485,433.21	24.08	0.00
9,50	0.0 6.0	90.00	9,486.3	6,021.0	0.0	265.5	799,179.86	485,433.21	24.57	0.00
9,53	5.9 6.0	90.00	9,522.0	6,056.7	0.0	269.3	799,183.62	485,433.21	24.91	0.00
1st Bone	e Spring									
9,55	6.0		9,536.0	6,070.7	0.0	270.7	799,185.09	485,433.21	25.05	0.00
9,60			9,585.7	6,120.4	0.0	276.0	799,190.31	485,433.21	25.53	0.00
9,65	6.0	90.00	9,635.4	6,170.1	0.0	281.2	799,195.54	485,433.21	26.02	0.00
9,70	0.0 6.0	90.00	9,685.2	6,219.9	0.0	286.4	799,200.77	485,433.21	26.50	0.00
9,75	6.0	90.00	9,734.9	6,269.6	0.0	291.6	799,205.99	485,433.21	26.98	0.00
9,80	0.0 6.0	90.00	9,784.6	6,319.3	0.0	296.9	799,211.22	485,433.21	27.47	0.00
9,85	6.0	90.00	9,834.4	6,369.1	0.0	302.1	799,216.45	485,433.21	27.95	0.00
9,90	0.0 6.0	90.00	9,884.1	6,418.8	0.0	307.3	799,221.67	485,433.21	28.43	0.00
9,95	6.0	90.00	9,933.8	6,468.5	0.0	312.5	799,226.90	485,433.21	28.92	0.00
10,00	0.0 6.0	90.00	9,983.5	6,518.2	0.0	317.8	799,232.13	485,433.21	29.40	0.00
10,04	8.7 6.0	90.00	10,032.0	6,566.7	0.0	322.9	799,237.22	485,433.21	29.87	0.00
2nd Bon										
10,05			10,033.3	6,568.0	0.0	323.0	799,237.35	485,433.21	29.88	0.00
10,10	0.0 6.0	90.00	10,083.0	6,617.7	0.0	328.2	799,242.58	485,433.21	30.37	0.00
10,15	6.0	90.00	10,132.7	6,667.4	0.0	333.5	799,247.81	485,433.21	30.85	0.00
10,20	0.0 6.0	90.00	10,182.4	6,717.1	0.0	338.7	799,253.03	485,433.21	31.34	0.00
10,25			10,232.2	6,766.9	0.0	343.9	799,258.26	485,433.21	31.82	0.00
10,30			10,281.9	6,816.6	0.0	349.1	799,263.48	485,433.21	32.30	0.00
10,35	6.0	90.00	10,331.6	6,866.3	0.0	354.4	799,268.71	485,433.21	32.79	0.00
10,40	0.0 6.0	90.00	10,381.3	6,916.0	0.0	359.6	799,273.94	485,433.21	33.27	0.00

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Morcor Engineering Morcor Standard Plan

ompany: roject: ite: /ell: /ellbore: esign:	Kaiser Francis Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 190328 Bell Lake Uni	332H 332H 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	:	-	ft (Original Well Elev ft (Original Well Elev e	,
lanned 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)
10,450	.0 6.00	90.00	10,431.1	6,965.8	0.0	364.8	799,279.16	485,433.21	33.75	0.00
10,500	.0 6.00	90.00	10,480.8	7,015.5	0.0	370.0	799,284.39	485,433.21	34.24	0.00
10,541	.4 6.00	90.00	10,522.0	7,056.7	0.0	374.4	799,288.72	485,433.21	34.64	0.00
First PP -	2nd Bone Spring Lim	e								
10,550	.0 6.00	90.00	10,530.5	7,065.2	0.0	375.3	799,289.62	485,433.21	34.72	0.00
10,590	.0 6.00	90.00	10,570.3	7,105.0	0.0	379.4	799,293.80	485,433.21	35.11	0.00
Start DLS	9.98 TFO -30.93									
10,600	.0 6.88	85.71	10,580.2	7,114.9	0.0	380.6	799,294.92	485,433.25	35.26	9.98
10,610	.0 7.78	82.40	10,590.2	7,124.9	0.2	381.8	799,296.19	485,433.39	35.51	9.98
	10.00 TFO -23.31									
10,650			10,629.6	7,164.3	1.6	388.4	799,302.73	485,434.82	37.54	10.00
10,660		73.25	10,639.4	7,174.1	2.2	390.4	799,304.74	485,435.40	38.30	10.00
Start DLS	10.00 TFO -14.31									
10,700	.0 16.43	69.76	10,678.1	7,212.8	5.4	399.9	799,314.21	485,438.61	42.37	10.00
10,750	.0 21.36	67.16	10,725.4	7,260.1	11.4	414.9	799,329.24	485,444.60	49.73	10.00
10,800	.0 26.32	65.50	10,771.1	7,305.8	19.5	433.4	799,347.74	485,452.73	59.54	10.00
10,850	.0 31.29	64.34	10,814.9	7,349.6	29.7	455.2	799,369.54	485,462.96	71.74	10.00
10,900	.0 36.26	63.47	10,856.4	7,391.1	42.0	480.1	799,394.49	485,475.19	86.23	10.00
10,950	.0 41.24	62.78	10,895.4	7,430.1	56.1	508.0	799,422.39	485,489.35	102.90	10.00
11,000	.0 46.23	62.22	10,931.5	7,466.2	72.1	538.7	799,453.04	485,505.31	121.64	10.00
11,050	.0 51.21	61.74	10,964.5	7,499.2	89.8	571.8	799,486.19	485,522.97	142.28	10.00
11,096	.2 55.83	61.36	10,992.0	7,526.7	107.5	604.5	799,518.88	485,540.68	162.94	10.00
3rd Bone										
11,100	.0 56.20	61.33	10,994.1	7,528.8	109.0	607.3	799,521.61	485,542.17	164.68	10.00
11,150	.0 61.19	60.96	11,020.1	7,554.8	129.6	644.7	799,559.01	485,562.79	188.67	10.00
11,160	.0 62.19	60.89	11,024.8	7,559.5	133.9	652.4	799,566.70	485,567.07	193.64	10.00
Start DLS	10.02 TFO -3.34									

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Morcor Engineering Morcor Standard Plan

ct: B B bore: B	aiser Francis ell Lake Unit North 33 ell Lake Unit North 33 ell Lake Unit North 33 ell Lake Unit North 33 90328 Bell Lake Unit	12H 12H 12H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:		-	ft (Original Well Elev ft (Original Well Elev e	,
ed 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)
11,184.8	64.67	60.73	11,035.9	7,570.6	144.7	671.7	799,586.07	485,577.88	206.20	10
Start DLS 10	0.01 TFO -77.29									
11,200.0	65.01	59.09	11,042.4	7,577.1	151.6	683.6	799,597.97	485,584.78	214.17	10
11,210.0	65.25	58.02	11,046.6	7,581.3	156.3	691.4	799,605.71	485,589.51	219.60	10
Start DLS 10	.00 TFO -76.02									
11,250.0	66.28	53.78	11,063.0	7,597.7	176.8	721.6	799,635.90	485,609.96	242.75	10
11,260.0	66.55	52.73	11,067.0	7,601.7	182.2	728.9	799,643.24	485,615.44	248.89	10
Start DLS 10	.00 TFO -73.96									
11,300.0	67.71	48.58	11,082.5	7,617.2	205.6	757.4	799,671.73	485,638.81	274.79	1(
11,350.0	69.30	43.48	11,100.9	7,635.6	237.9	790.8	799,705.19	485,671.10	310.04	10
11,360.0	69.64	42.48	11,104.4	7,639.1	244.7	797.2	799,711.58	485,677.95	317.45	10
Start DLS 10	.00 TFO -70.08									
11,400.0	71.05	38.51	11,117.8	7,652.5	273.4	821.7	799,736.03	485,706.59	348.24	10
11,450.0	72.92	33.63	11,133.3	7,668.0	311.8	849.7	799,764.00	485,745.02	389.09	10
11,460.0	73.31	32.67	11,136.2	7,670.9	319.8	854.9	799,769.23	485,753.03	397.55	1(
Start DLS 10	.00 TFO -67.00									
11,500.0	74.91	28.86	11,147.2	7,681.9	352.9	874.6	799,788.90	485,786.08	432.28	1(
11,550.0	76.99	24.17	11,159.3	7,694.0	396.3	896.2	799,810.54	485,829.48	477.48	10
11,560.0	77.42	23.24	11,161.5	7,696.2	405.2	900.1	799,814.46	485,838.40	486.74	1(
Start DLS 10	.00 TFO -64.52									
11,600.0	79.16	19.56	11,169.7	7,704.4	441.7	914.4	799,828.74	485,874.86	524.36	1
11,650.0	81.41	15.03	11,178.1	7,712.8	488.7	929.0	799,843.39	485,921.90	572.56	10
11,660.0	81.86	14.13	11,179.6	7,714.3	498.3	931.5	799,845.88	485,931.48	582.32	10
Start DLS 10	.00 TFO -62.93									
11,700.0	83.69	10.55	11,184.6	7,719.3	537.0	940.0	799,854.35	485,970.24	621.70	1
11,750.0	86.02	6.11	11,189.1	7,723.8	586.3	947.2	799,861.56	486,019.50	671.41	1
11,760.0	86.49	5.22	11,189.7	7,724.4	596.2	948.2	799,862.54	486,029.43	681.39	1

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RAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 Bell Lake Unit North 3 190328 Bell Lake Unit	32H 32H 32H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	::	-	ft (Original Well Elev ft (Original Well Elev e	
Planned Survey MD	Inc	Azi (azimuth)	TVD	TVDSS	N/S	E/W	Easting	Northing	V. Sec	DLeg
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
11,800	0.0 88.37	1.68	11,191.5	7,726.2	636.1	950.6	799,864.95	486,069.31	721.32	10.00
11,834	4.6 90.00	358.63	11,192.0	7,726.7	670.7	950.7	799,865.04	486,103.90	755.77	10.00
	4 hold at 11834.6 MD	050.00	44,400,0		000.4	050.0	700 00 / 07	100 110 00		
11,850	0.0 90.00	358.63	11,192.0	7,726.7	686.1	950.3	799,864.67	486,119.29	771.07	0.00
11,894	4.0 90.00	358.63	11,192.0	7,726.7	730.1	949.3	799,863.62	486,163.28	814.77	0.00
First Take										
11,900		358.63	11,192.0	7,726.7	736.1	949.1	799,863.48	486,169.28	820.73	0.00
11,950		358.63	11,192.0	7,726.7	786.1	947.9	799,862.28	486,219.26	870.39	0.00
12,000 12,050		358.63 358.63	11,192.0 11,192.0	7,726.7 7,726.7	836.0 886.0	946.7 945.5	799,861.09 799,859.89	486,269.25 486,319.23	920.05 969.71	0.00
12,050	90.00	300.03	11,192.0	1,120.1	000.0	945.5	799,059.09	400,319.23	909.71	0.00
12,100		358.63	11,192.0	7,726.7	936.0	944.3	799,858.70	486,369.22	1,019.37	0.00
12,150		358.63	11,192.0	7,726.7	986.0	943.2	799,857.50	486,419.21	1,069.03	0.00
12,200		358.63	11,192.0	7,726.7	1,036.0	942.0	799,856.31	486,469.19	1,118.69	0.00
12,250		358.63	11,192.0	7,726.7	1,086.0	940.8	799,855.11	486,519.18	1,168.35	0.00
12,300	0.0 90.00	358.63	11,192.0	7,726.7	1,136.0	939.6	799,853.92	486,569.16	1,218.01	0.00
12,350	0.0 90.00	358.63	11,192.0	7,726.7	1,185.9	938.4	799,852.72	486,619.15	1,267.67	0.00
12,400	0.0 90.00	358.63	11,192.0	7,726.7	1,235.9	937.2	799,851.53	486,669.13	1,317.33	0.00
12,450	0.0 90.00	358.63	11,192.0	7,726.7	1,285.9	936.0	799,850.33	486,719.12	1,367.00	0.00
12,500	0.0 90.00	358.63	11,192.0	7,726.7	1,335.9	934.8	799,849.14	486,769.11	1,416.66	0.00
12,550	0.0 90.00	358.63	11,192.0	7,726.7	1,385.9	933.6	799,847.94	486,819.09	1,466.32	0.00
12,600	0.0 90.00	358.63	11,192.0	7,726.7	1,435.9	932.4	799,846.75	486,869.08	1,515.98	0.00
12,650	0.0 90.00	358.63	11,192.0	7,726.7	1,485.9	931.2	799,845.55	486,919.06	1,565.64	0.00
12,700	0.0 90.00	358.63	11,192.0	7,726.7	1,535.8	930.0	799,844.36	486,969.05	1,615.30	0.00
12,750	0.0 90.00	358.63	11,192.0	7,726.7	1,585.8	928.8	799,843.16	487,019.03	1,664.96	0.00
12,800	0.0 90.00	358.63	11,192.0	7,726.7	1,635.8	927.6	799,841.97	487,069.02	1,714.62	0.00
12,850	0.0 90.00	358.63	11,192.0	7,726.7	1,685.8	926.4	799,840.77	487,119.01	1,764.28	0.00
12,900	0.0 90.00	358.63	11,192.0	7,726.7	1,735.8	925.2	799,839.58	487,168.99	1,813.94	0.00

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Morcor Engineering Morcor Standard Plan

1											
Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit No Bell Lake Unit No Bell Lake Unit No Bell Lake Unit No 190328 Bell Lake	rth 332H rth 332H rth 332H					Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	»:	-	ft (Original Well Elev ft (Original Well Elev e	·
Planned Survey											
MD (usft)	lnc (°)	Azi (azimutl (°)	n) TVD (usft)		ſVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
12,950	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	1,785.8	924.0	799,838.39	487,218.98	1,863.60	0.00
13,000	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	1,835.8	922.8	799,837.19	487,268.96	1,913.26	0.00
13,050	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	1,885.7	921.6	799,836.00	487,318.95	1,962.93	0.00
13,10	0.0 9	0.00 3	58.63 11	,192.0	7,726.7	1,935.7	920.5	799,834.80	487,368.93	2,012.59	0.00
13,15	0.0 9	0.00 39	58.63 11	,192.0	7,726.7	1,985.7	919.3	799,833.61	487,418.92	2,062.25	0.00
13,200	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	2,035.7	918.1	799,832.42	487,468.91	2,111.91	0.00
13,250	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	2,085.7	916.9	799,831.22	487,518.89	2,161.57	0.00
13,300	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	2,135.7	915.7	799,830.03	487,568.88	2,211.23	0.00
13,350	0.0 9	0.00 3	58.63 11	,192.0	7,726.7	2,185.7	914.5	799.828.83	487.618.86	2.260.89	0.00
13,40				192.0	7,726.7	2,235.6	913.3	799,827.64	487,668.85	2,310.55	0.00
13,450	0.0 9	0.00 39	58.63 11	,192.0	7,726.7	2,285.6	912.1	799,826.45	487,718.84	2,360.21	0.00
13,500	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	2,335.6	910.9	799,825.25	487,768.82	2,409.87	0.00
13,550	0.0 9	0.00 38	58.63 11	,192.0	7,726.7	2,385.6	909.7	799,824.06	487,818.81	2,459.53	0.00
13,60	0.0 9	0.00 3	58.63 11	192.0	7,726.7	2,435.6	908.5	799,822.87	487,868.79	2,509.19	0.00
13,650	0.0 9	0.00 3	58.63 11	,192.0	7,726.7	2,485.6	907.3	799,821.67	487,918.78	2,558.86	0.00
13,70	0.0 9	0.00 39	58.63 11	,192.0	7,726.7	2,535.6	906.1	799,820.48	487,968.76	2,608.52	0.00
13,750	0.0 9	0.00 35	58.63 11	,192.0	7,726.7	2,585.5	904.9	799,819.29	488,018.75	2,658.18	0.00
13,800	0.0 9	0.00 38	58.63 11	,192.0	7,726.7	2,635.5	903.7	799,818.09	488,068.74	2,707.84	0.00
13,850	0.0 9	0.00 3	58.63 11	,192.0	7,726.7	2,685.5	902.5	799,816.90	488,118.72	2,757.50	0.00
13,90				,192.0	7,726.7	2,735.5	901.4	799,815.71	488,168.71	2,807.16	0.00
13,950				192.0	7,726.7	2,785.5	900.2	799,814.51	488,218.69	2,856.82	0.00
14,000	0.0 9	0.00 39	58.63 11	,192.0	7,726.7	2,835.5	899.0	799,813.32	488,268.68	2,906.48	0.00
14,050	0.0 9	0.00 38	58.63 11	,192.0	7,726.7	2,885.5	897.8	799,812.13	488,318.66	2,956.14	0.00
14,10	0.0 9	0.00 3	58.63 11	,192.0	7,726.7	2,935.4	896.6	799,810.93	488,368.65	3,005.80	0.00
14,150				192.0	7,726.7	2,985.4	895.4	799,809.74	488,418.64	3,055.47	0.00
14,200	0.0 9	0.00 38	58.63 11	,192.0	7,726.7	3,035.4	894.2	799,808.55	488,468.62	3,105.13	0.00
14,250	0.0 9	0.00 39	58.63 11	,192.0	7,726.7	3,085.4	893.0	799,807.36	488,518.61	3,154.79	0.00

RAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

I										
Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North Bell Lake Unit North 190328 Bell Lake U	n 332H n 332H n 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	::	-	sft (Original Well Ele sft (Original Well Ele e	,
Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
14,30	0.0 90.0	00 358.63	11,192.0	7,726.7	3,135.4	891.8	799,806.16	488,568.59	3,204.45	0.00
14,35	0.0 90.0	00 358.63	11,192.0	7,726.7	3,185.4	890.6	799,804.97	488,618.58	3,254.11	0.00
14,40	0.0 90.0	00 358.63	11,192.0	7,726.7	3,235.4	889.4	799,803.78	488,668.56	3,303.77	0.00
14,45	0.0 90.0	00 358.63	11,192.0	7,726.7	3,285.3	888.2	799,802.59	488,718.55	3,353.43	0.00
14,50	0.0 90.0	00 358.63	11,192.0	7,726.7	3,335.3	887.0	799,801.39	488,768.54	3,403.09	0.00
14,55	0.0 90.0	00 358.63	11,192.0	7,726.7	3,385.3	885.9	799,800.20	488,818.52	3,452.75	0.00
14,60	0.0 90.0	00 358.63	11,192.0	7,726.7	3,435.3	884.7	799,799.01	488,868.51	3,502.41	0.00
14,65			11,192.0	7,726.7	3,485.3	883.5	799,797.82	488,918.49	3,552.08	0.00
14,70	0.0 90.0	00 358.63	11,192.0	7,726.7	3,535.3	882.3	799,796.62	488,968.48	3,601.74	0.00
14,75	0.0 90.0	00 358.63	11,192.0	7,726.7	3,585.3	881.1	799,795.43	489,018.47	3,651.40	0.00
14,80	0.0 90.0	00 358.63	11,192.0	7,726.7	3,635.2	879.9	799,794.24	489,068.45	3,701.06	0.00
14,85	0.0 90.0	00 358.63	11,192.0	7,726.7	3,685.2	878.7	799,793.05	489,118.44	3,750.72	0.00
14,90			11,192.0	7,726.7	3,735.2	877.5	799,791.86	489,168.42	3,800.38	0.00
14,95			11,192.0	7,726.7	3,785.2	876.3	799,790.66	489,218.41	3,850.04	0.00
15,00			11,192.0	7,726.7	3,835.2	875.1	799,789.47	489,268.39	3,899.70	0.00
15,05	0.0 90.0	00 358.63	11,192.0	7,726.7	3,885.2	873.9	799,788.28	489,318.38	3,949.36	0.00
15,10	0.0 90.0	00 358.63	11,192.0	7,726.7	3,935.2	872.7	799,787.09	489,368.37	3,999.03	0.00
15,15			11,192.0	7,726.7	3,985.1	871.5	799,785.90	489,418.35	4,048.69	0.00
15,20			11,192.0	7,726.7	4,035.1	870.4	799,784.70	489,468.34	4,098.35	0.00
15,25			11,192.0	7,726.7	4,085.1	869.2	799,783.51	489,518.32	4,148.01	0.00
15,30			11,192.0	7,726.7	4,135.1	868.0	799,782.32	489,568.31	4,197.67	0.00
15,35	0.0 90.0	00 358.63	11,192.0	7,726.7	4,185.1	866.8	799,781.13	489,618.29	4,247.33	0.00
15,35			11,192.0	7,726.7	4,165.1	865.6	799,781.13	489,668.28	4,247.33	0.00
15,40			11,192.0	7,726.7	4,285.1	864.4	799,778.75	489,718.27	4,290.99	0.00
15,43			11,192.0	7,726.7	4,335.0	863.2	799,777.56	489,768.25	4,396.31	0.00
15,55			11,192.0	7,726.7	4,385.0	862.0	799,776.36	489,818.24	4,445.98	0.00
15,60			11,192.0	7,726.7	4,435.0	860.8	799,775.17	489,868.22	4,495.64	0.00

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COMPASS 5000.1 Build 56

RAISER-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company:		Francis					Local Co-ordina	te Reference:	Well Bell Lake Unit	t North 332H	
Project: Site: Well:	Bell La	ike Unit North 33 ike Unit North 33 ike Unit North 33	2H				TVD Reference: MD Reference: North Reference		U U	ft (Original Well Elev ft (Original Well Elev	,
Wellbore: Design:	Bell La	ike Unit North 33 8 Bell Lake Unit I	2H				Survey Calculat Database:		Minimum Curvatur EDM 5000.1 Single		
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)
15,65	50.0	90.00	358.63	11,192.0	7,726.7	4,485.0	859.6	799,773.98	489,918.21	4,545.30	0.00
15,70	0.0	90.00	358.63	11,192.0	7,726.7	4,535.0	858.4	799,772.79	489,968.20	4,594.96	0.00
15,75	50.0	90.00	358.64	11,192.0	7,726.7	4,585.0	857.3	799,771.60	490,018.18	4,644.62	0.00
15,80	0.0	90.00	358.64	11,192.0	7,726.7	4,635.0	856.1	799,770.41	490,068.17	4,694.28	0.00
15,85	50.0	90.00	358.64	11,192.0	7,726.7	4,684.9	854.9	799,769.22	490,118.15	4,743.94	0.00
15,90	0.0	90.00	358.64	11,192.0	7,726.7	4,734.9	853.7	799,768.03	490,168.14	4,793.60	0.00
15,95	50.0	90.00	358.64	11,192.0	7,726.7	4,784.9	852.5	799,766.84	490,218.12	4,843.27	0.00
16,00	0.0	90.00	358.64	11,192.0	7,726.7	4,834.9	851.3	799,765.65	490,268.11	4,892.93	0.00
16,05	50.0	90.00	358.64	11,192.0	7,726.7	4,884.9	850.1	799,764.46	490,318.10	4,942.59	0.00
16,10	0.0	90.00	358.64	11,192.0	7,726.7	4,934.9	848.9	799,763.26	490,368.08	4,992.25	0.00
16,15	50.0	90.00	358.64	11,192.0	7,726.7	4,984.9	847.7	799,762.07	490,418.07	5,041.91	0.00
16,20	0.0	90.00	358.64	11,192.0	7,726.7	5,034.8	846.5	799,760.88	490,468.05	5,091.57	0.00
16,25	50.0	90.00	358.64	11,192.0	7,726.7	5,084.8	845.3	799,759.69	490,518.04	5,141.23	0.00
16,30	0.0	90.00	358.64	11,192.0	7,726.7	5,134.8	844.2	799,758.50	490,568.03	5,190.89	0.00
16,35	50.0	90.00	358.64	11,192.0	7,726.7	5,184.8	843.0	799,757.31	490,618.01	5,240.56	0.00
16,40	0.0	90.00	358.64	11,192.0	7,726.7	5,234.8	841.8	799,756.12	490,668.00	5,290.22	0.00
16,45	50.0	90.00	358.64	11,192.0	7,726.7	5,284.8	840.6	799,754.93	490,717.98	5,339.88	0.00
16,50	0.0	90.00	358.64	11,192.0	7,726.7	5,334.8	839.4	799,753.74	490,767.97	5,389.54	0.00
16,55	50.0	90.00	358.64	11,192.0	7,726.7	5,384.7	838.2	799,752.55	490,817.95	5,439.20	0.00
16,60	0.0	90.00	358.64	11,192.0	7,726.7	5,434.7	837.0	799,751.36	490,867.94	5,488.86	0.00
16,65	50.0	90.00	358.64	11,192.0	7,726.7	5,484.7	835.8	799,750.17	490,917.93	5,538.52	0.00
16,70	0.0	90.00	358.64	11,192.0	7,726.7	5,534.7	834.6	799,748.98	490,967.91	5,588.19	0.00
16,75	50.0	90.00	358.64	11,192.0	7,726.7	5,584.7	833.4	799,747.79	491,017.90	5,637.85	0.00
16,80	0.0	90.00	358.64	11,192.0	7,726.7	5,634.7	832.3	799,746.60	491,067.88	5,687.51	0.00
16,85	50.0	90.00	358.64	11,192.0	7,726.7	5,684.7	831.1	799,745.41	491,117.87	5,737.17	0.00
16,90	0.0	90.00	358.64	11,192.0	7,726.7	5,734.6	829.9	799,744.22	491,167.86	5,786.83	0.00
16,95	50.0	90.00	358.64	11,192.0	7,726.7	5,784.6	828.7	799,743.03	491,217.84	5,836.49	0.00

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Morcor Engineering Morcor Standard Plan

ompany: roject: te: ell: ellbore: essign:	Kaiser Francis Bell Lake Unit Norf Bell Lake Unit Norf Bell Lake Unit Norf Bell Lake Unit Norf 190328 Bell Lake I	h 332H h 332H h 332H				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	ə:	U U	ft (Original Well Elev ft (Original Well Elev e	,
MD	Inc	Azi (azimuth)	TVD	TVDSS	N/S	E/W	Easting	Northing	V. Sec	DLeg
(usft) 17,000	(°) 0.0 90	(°) .00 358.64	(usft) 11,192.0	(usft) 7,726.7	(usft) 5,834.6	(usft) 827.5	(usft) 799,741.84	(usft) 491,267.83	(usft) 5,886.15	(°/ 100usft) 0.0
17,000			11,192.0	7,726.7	5,884.6	826.3	799,740.65	491,317.81	5,935.81	0.0
,			,	,			,	,	,	
17,100			11,192.0	7,726.7	5,934.6	825.1	799,739.46	491,367.80	5,985.48	0.0
17,150			11,192.0	7,726.7	5,984.6	823.9	799,738.28	491,417.78	6,035.14	0.0
17,200			11,192.0	7,726.7	6,034.6	822.7	799,737.09	491,467.77	6,084.80	0.0
17,250			11,192.0	7,726.7	6,084.5	821.5	799,735.90	491,517.76	6,134.46	0.0
17,300	0.0 90	.00 358.64	11,192.0	7,726.7	6,134.5	820.4	799,734.71	491,567.74	6,184.12	0.0
17,350	0.0 90	.00 358.64	11,192.0	7,726.7	6,184.5	819.2	799,733.52	491,617.73	6,233.78	0.0
17,400	0.0 90	.00 358.64	11,192.0	7,726.7	6,234.5	818.0	799,732.33	491,667.71	6,283.44	0.0
17,450	0.0 90	.00 358.64	11,192.0	7,726.7	6,284.5	816.8	799,731.14	491,717.70	6,333.11	0.0
17,500	0.0 90	.00 358.64	11,192.0	7,726.7	6,334.5	815.6	799,729.95	491,767.69	6,382.77	0.0
17,550	0.0 90	.00 358.64	11,192.0	7,726.7	6,384.5	814.4	799,728.76	491,817.67	6,432.43	0.0
17,600	0.0 90	.00 358.64	11,192.0	7,726.7	6,434.4	813.2	799,727.57	491,867.66	6,482.09	0.0
17,650	0.0 90		11,192.0	7,726.7	6,484.4	812.0	799,726.38	491,917.64	6,531.75	0.0
17,700	0.0 90	.00 358.64	11,192.0	7,726.7	6,534.4	810.8	799,725.20	491,967.63	6,581.41	0.0
17,750	0.0 90	.00 358.64	11,192.0	7,726.7	6,584.4	809.7	799,724.01	492,017.61	6,631.08	0.0
17,800	0.0 90	.00 358.64	11,192.0	7,726.7	6,634.4	808.5	799,722.82	492,067.60	6,680.74	0.0
17,850	0.0 90	.00 358.64	11,192.0	7,726.7	6,684.4	807.3	799,721.63	492,117.59	6,730.40	0.0
17,900	0.0 90	.00 358.64	11,192.0	7,726.7	6,734.4	806.1	799,720.44	492,167.57	6,780.06	0.0
17,950	0.0 90	.00 358.64	11,192.0	7,726.7	6,784.4	804.9	799,719.25	492,217.56	6,829.72	0.0
18,000	0.0 90	.00 358.64	11,192.0	7,726.7	6,834.3	803.7	799,718.06	492,267.54	6,879.38	0.0
18,050	0.0 90	.00 358.64	11,192.0	7,726.7	6,884.3	802.5	799,716.88	492,317.53	6,929.04	0.0
18,100	0.0 90	.00 358.64	11,192.0	7,726.7	6,934.3	801.3	799,715.69	492,367.52	6,978.71	0.0
18,150	0.0 90	.00 358.64	11,192.0	7,726.7	6,984.3	800.1	799,714.50	492,417.50	7,028.37	0.0
18,200	0.0 90	.00 358.64	11,192.0	7,726.7	7,034.3	799.0	799,713.31	492,467.49	7,078.03	0.0
18,250	0.0 90	.00 358.64	11,192.0	7,726.7	7,084.3	797.8	799,712.12	492,517.47	7,127.69	0.0
18,300	0.0 90	.00 358.64	11,192.0	7,726.7	7,134.3	796.6	799,710.94	492,567.46	7,177.35	0.0

3/29/2019 9:14:48AM

RAISER-PRANCES OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Vell: Vellbore: Design:	bell Lake Unit North 332H Bell Lake Unit North 332H					Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	9:		oft (Original Well Ele oft (Original Well Ele e	
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)
18,350	.0 90.00) 358.64	11,192.0	7,726.7	7,184.2	795.4	799,709.75	492,617.45	7,227.01	0.0
18,400	.0 90.00	358.64	11,192.0	7,726.7	7,234.2	794.2	799,708.56	492,667.43	7,276.67	0.0
18,450	.0 90.00	358.64	11,192.0	7,726.7	7,284.2	793.0	799,707.37	492,717.42	7,326.34	0.
18,500	.0 90.00	358.64	11,192.0	7,726.7	7,334.2	791.8	799,706.18	492,767.40	7,376.00	0.
18,550	.0 90.00	358.64	11,192.0	7,726.7	7,384.2	790.6	799,705.00	492,817.39	7,425.66	0.
18,600	.0 90.00	358.64	11,192.0	7,726.7	7,434.2	789.5	799,703.81	492,867.37	7,475.32	0.
18,650	.0 90.00	358.64	11,192.0	7,726.7	7,484.2	788.3	799,702.62	492,917.36	7,524.98	0.
18,700	.0 90.00	358.64	11,192.0	7,726.7	7,534.1	787.1	799,701.43	492,967.35	7,574.64	0.
18,750	.0 90.00	358.64	11,192.0	7,726.7	7,584.1	785.9	799,700.25	493,017.33	7,624.31	0.
18,800	.0 90.00	358.64	11,192.0	7,726.7	7,634.1	784.7	799,699.06	493,067.32	7,673.97	0.
18,850	.0 90.00	358.64	11,192.0	7,726.7	7,684.1	783.5	799,697.87	493,117.30	7,723.63	0.
18,900	.0 90.00	358.64	11,192.0	7,726.7	7,734.1	782.3	799,696.68	493,167.29	7,773.29	0.
18,950	.0 90.00	358.64	11,192.0	7,726.7	7,784.1	781.1	799,695.50	493,217.28	7,822.95	0.
19,000	.0 90.00	358.64	11,192.0	7,726.7	7,834.1	780.0	799,694.31	493,267.26	7,872.61	0.0
19,050	.0 90.00	358.64	11,192.0	7,726.7	7,884.0	778.8	799,693.12	493,317.25	7,922.28	0.
19,100	.0 90.00	358.64	11,192.0	7,726.7	7,934.0	777.6	799,691.93	493,367.23	7,971.94	0.
19,150	.0 90.00	358.64	11,192.0	7,726.7	7,984.0	776.4	799,690.75	493,417.22	8,021.60	0.0
19,200	.0 90.00	358.64	11,192.0	7,726.7	8,034.0	775.2	799,689.56	493,467.21	8,071.26	0.
19,250	.0 90.00	358.64	11,192.0	7,726.7	8,084.0	774.0	799,688.37	493,517.19	8,120.92	0.0
19,300	.0 90.00	358.64	11,192.0	7,726.7	8,134.0	772.8	799,687.19	493,567.18	8,170.58	0.0

8,184.0

8,233.9

8,279.9

771.6

770.5

769.4

799,686.00

799,684.81

799,683.72

493,617.16

493,667.15

493,713.14

19,350.0

19,400.0

19,446.0

90.00

90.00

90.00

TD at 19446.0 - Last Take Point - 5 1/2" Production Casing

358.64

358.64

358.64

7,726.7

7,726.7

7,726.7

11,192.0

11,192.0

11,192.0

0.00

0.00

0.00

8,220.25

8,269.91

8,315.60

Morcor Engineering Morcor Standard Plan

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 332H
	Bell Lake Unit North 332H	TVD Reference:	WELL @ 3465.3usft (Original Well Elev)
Site:	Bell Lake Unit North 332H	MD Reference:	WELL @ 3465.3usft (Original Well Elev)
Well:	Bell Lake Unit North 332H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 332H	Survey Calculation Method:	Minimum Curvature
Design:	190328 Bell Lake Unit North 332H	Database:	EDM 5000.1 Single User Db

Casing Points

KAISER-PEANUS OIL COMPANY

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter ('')	Hole Diameter (")
19,446.0	11,192.0	5 1/2" Production Casing	5-1/2	8-3/4
120.0	120.0	20" Conductor	20	26
1,207.0	1,207.0	13 3/8" Surface Casing	13-3/8	17-1/2
5,147.0	5,147.0	9 5/8" Intermediate Casing	9-5/8	12-1/4

Formations								
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
	10,048.7	10,032.0	2nd Bone Spring		0.00			
	6,072.0	6,072.0	Cherry Canyon		0.00			
	1,572.0	1,572.0	Salado		0.00			
	11,096.2	10,992.0	3rd Bone Spring		0.00			
	5,172.0	5,172.0	Bell Canyon		0.00			
	8,625.9	8,617.0	Avalon		0.00			
	1,772.0	1,772.0	Top of Salt		0.00			
	10,541.4	10,522.0	2nd Bone Spring Lime		0.00			
	4,722.0	4,722.0	Base of Salt		0.00			
	7,474.6	7,472.0	Brushy Canyon		0.00			
	1,182.0	1,182.0	Rustler		0.00			
	9,535.9	9,522.0	1st Bone Spring		0.00			
	8,580.7	8,572.0	Bone Spring		0.00			
	4,922.0	4,922.0	Lamar		0.00			

Morcor Engineering Morcor Standard Plan

Component	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 332H
Company:	Raiser Francis	Local Co-ordinate Reference:	
Project:	Bell Lake Unit North 332H	TVD Reference:	WELL @ 3465.3usft (Original Well Elev)
Site:	Bell Lake Unit North 332H	MD Reference:	WELL @ 3465.3usft (Original Well Elev)
Well:	Bell Lake Unit North 332H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 332H	Survey Calculation Method:	Minimum Curvature
Design:	190328 Bell Lake Unit North 332H	Database:	EDM 5000.1 Single User Db

Plan Annotations

RAISER-PRANCIS OIL COMPANY

Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
6,860.0	6,860.0	0.0	0.0	Start Build 3.00
7,060.0	7,059.6	0.0	10.5	Start 3530.0 hold at 7060.0 MD
10,541.4	10,522.0	0.0	374.4	First PP
10,590.0	10,570.3	0.0	379.4	Start DLS 9.98 TFO -30.93
10,610.0	10,590.2	0.2	381.8	Start DLS 10.00 TFO -23.31
10,660.0	10,639.4	2.2	390.4	Start DLS 10.00 TFO -14.31
11,160.0	11,024.8	133.9	652.4	Start DLS 10.02 TFO -3.34
11,184.8	11,035.9	144.7	671.7	Start DLS 10.01 TFO -77.29
11,210.0	11,046.6	156.3	691.4	Start DLS 10.00 TFO -76.02
11,260.0	11,067.0	182.2	728.9	Start DLS 10.00 TFO -73.96
11,360.0	11,104.4	244.7	797.2	Start DLS 10.00 TFO -70.08
11,460.0	11,136.2	319.8	854.9	Start DLS 10.00 TFO -67.00
11,560.0	11,161.5	405.2	900.1	Start DLS 10.00 TFO -64.52
11,660.0	11,179.6	498.3	931.5	Start DLS 10.00 TFO -62.93
11,760.0	11,189.7	596.2	948.2	Start DLS 10.00 TFO -62.08
11,834.6	11,192.0	670.7	950.7	Start 59.4 hold at 11834.6 MD
11,894.0	11,192.0	730.1	949.3	First Take Point
19,446.0	11,192.0	8,279.9	769.4	TD at 19446.0 - Last Take Point

Checked By:

Approved By:

Date:

Received by OCD: 12/2/2022 1:06:05 PM

AFMSS

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

APD ID: 10400042805 **Operator Name: KAISER FRANCIS OIL COMPANY**

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BLUN_332H_Existing_Roads_20190617101120.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

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_332H_Access_Road_20191112121514.pdf New road type: RESOURCE Length: 919 Feet Width (ft.): 25 Max slope (%): 2 Max grade (%): 2 Army Corp of Engineers (ACOE) permit required? NO ACOE Permit Number(s): New road travel width: 15 New road access erosion control: Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage. New road access plan or profile prepared? NO New road access plan attachment: Access road engineering design? NO

Access road engineering design attachment:

Released to Imaging: 12/8/2022 2:42:33 PM

Row(s) Exist? NO

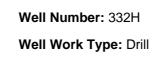
Submission Date: 06/17/2019

Highlighted data reflects the most recent changes

SUPO Data Repor

Show Final Text

12/07/2020



Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native caliche

Access onsite topsoil source depth: 6

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

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

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistentwith 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_332H_1_MILE_WELLS_20190617103301.pdf BLUN_332H_1_Mile_Wells_Map_20190617103504.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 48"X 10' 2-phase sep

Received by OCD: 12/2/2022 1:06:05 PM

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Section 5 - Location a	nd Types of Water Supply	
Water Source Tab		
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 owner	rship: OTHER	Describe transportation land ownership:
Water source volume (barrels): 20	0000	Source volume (acre-feet): 2.577862
Source volume (gal): 840000		
Water source type: OTHER		
Describe type: FRESH WATER		
Water source use type:	STIMULATION	
Water Source and type.	OTHER	Describe use type: ROAD/PAD CONSTRUCTION AN
	SURFACE CASING	Describe use type. Rondin no concernee non na
	SURFACE CAGING	
Source latitude:		Source longitude:
Source datum:		
Water source permit type:	PRIVATE CONTRACT	
Water source transport method:	TRUCKING	
Source land ownership: PRIVATE		
Source transportation land owner	rship: OTHER	Describe transportation land ownership:
Water source volume (barrels): 25	50000	Source volume (acre-feet): 32.223274
Source volume (gal): 10500000		

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Received by OCD: 12/2/2022 1:06:05 PM

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Water source and transportation map:

BLUN_332H_Water_Source_Map_20190617105206.pdf

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

New water well? NO

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aqui	fer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside diam	eter (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Section 6 - Construction Materials

Using any construction materials: YES

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

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

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

Disposal type description:

Disposal location description: Cuttings will be hauled to R360's facility on US 62/180 at Halfway, NM

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Miscellaneous trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

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

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Cuttings area depth (ft.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

BLUN_332H_Drill_Site_Layout_20190617105457.pdf BLUN_332H_Wellpad_Layout_20190617105627.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: 13

Recontouring attachment:

BLUN_Pad_13_IR_Plat_20191112120403.pdf

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff and siltation of the surrounding area. As per request of rancher, a berm will be constructed along the east side of well pad.

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

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Operator Name: KAISER FRANCIS OIL	_ COMPANY	
Well Name: BELL LAKE UNIT NORTH	Well Number: 332⊢	ı J
Well pad proposed disturbance (acres): 5.97	Well pad interim reclamation (acres): 0.46	Well pad long term disturbance (acres): 5.51
Road proposed disturbance (acres): 0.460285 Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 0	Road interim reclamation (acres): 0 Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0 Other interim reclamation (acres): 0	Road long term disturbance (acres): 0.460285
Other proposed disturbance (acres): 0 Total proposed disturbance: 6.430285		Other long term disturbance (acres): 0 Total long term disturbance: 5.970285

Disturbance Comments: Plan to reclaim 130' on the north side and 80' on the east side of well pad.

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:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

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Operator Name: KAISER FRA	ANCIS OIL COMPANY	
Well Name: BELL LAKE UNIT	NORTH	Well Number: 332H
Seed harvest description:		
Seed harvest description atta	chment:	
Seed Management		
Seed Table		
Seed Su		Total pounds/Acre:
	Pounds/Acre	
Seed Type Seed reclamation attachment		
Operator Contact/R		ial Contact Info
First Name:		Last Name:
Pirst Name: Phone: (432)684-9696		Email:
Seedbed prep:		
Seed BMP:		
Seed method:		
Existing invasive species? N		
Existing invasive species trea	atment description:	
Existing invasive species trea		
Weed treatment plan descript ocation and road. Weed treatment plan attachm		es present. Standard regular maintenance to maintain a clear
weeds from construction equipr	ment during construction spread to adjacent areas	g weeds prior to construction; prevent the introduction and spread of n; and contain weed seeds and propagules by preventing s. No invasive species present. Standard regular maintenance to
Success standards: To mainta	ain all disturbed areas as	s 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: 332H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Limestone Basin Properties	Fee Owner Address: 3300 N A St Ste 220
Phone: (432)695-6353	Email:

Phone: (432)695-6353

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Surface Use and Compensation Agreement exists between COG Operating LLC and Kaiser-Francis Oil Company Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD **Describe:** Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office:**

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO ROW Type(s): Use APD as ROW?

ROW Applications

SUPO Additional Information: Use a previously conducted onsite? NO Previous Onsite information:

Other SUPO Attachment



Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:PWD surface owner:PWD disturbance (acres):Surface discharge PWD discharge volume (bbl/day):PWD disturbance (acres):Surface Discharge NPDES Permit?Surface Discharge NPDES Permit attachment:Surface Discharge site facilities information:Surface Discharge site facilities map:Section 6 - OtherSection 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

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Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 332H

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

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WAFMSS

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

APD ID: 10400042805

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: BELL LAKE UNIT NORTH Well Type: OIL WELL

Bond Information

Federal/Indian APD: FEDBLM Bond number: WYB000055BIA Bond number:Do you have a reclamation bond? NOIs 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 number:Reclamation bond number:Additional reclamation bond rider amount:

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	- and - Part	11000
	Submission Date: 06/17/2019	Highlighted data
١Y		reflects the most
		recent changes
	Well Number: 332H	Show Final Text
	Well Work Type: Drill	



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State of New Mexico Submit Electronically Energy, Minerals and Natural Resources Department Via E-permitting **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505 NATURAL GAS MANAGEMENT PLAN This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well. Section 1 – Plan Description Effective May 25, 2021 OGRID: <u>12361</u> Date: <u>12/02/2022</u> I. Operator: Kaiser-Francis Oil Company **II. Type:** ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. If Other, please describe: III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. ULSTR Anticipated Anticipated Well Name API Footages Anticipated Oil BBL/D Gas MCF/D Produced Water BBL/D Bell Lake Unit North 332H 30 025-50835 UL-L Sec 5-T23S-R34E 1961 FSL 404FWI 1800 3000 2000 [See 19.15.27.9(D)(1) NMAC] IV. Central Delivery Point Name: PADSITE V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Initial Flow **First Production** Well Name API Spud Date TD Reached Completion Commencement Date Back Date Date Date Bell Lake Unit North 332H 30-025-50835 TBD TBD TBD TBD TBD VI. Separation Equipment: X Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: X Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: I Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

<u>Section 2 – Enhanced Plan</u> <u>EFFECTIVE APRIL 1, 2022</u>

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Deprator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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Signature: An Show		
Printed Name: Aaron E Daniels		
Title: EHS Manager		
E-mail Address: aarond & kfoc, net		
Date: 12-2-2022		
Phone: 918-491-4352		
OIL CONSERVATION DIVISION		
(Only applicable when submitted as a standalone form)		
(Only appreable when submitted as a standarone form)		
Approved By:		
Approved By:		
Approved By: Title:		
Approved By: Title: Approval Date:		
Approved By: Title: Approval Date:		
Approved By: Title: Approval Date:		

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Plan Description

VI. Separation Equipment

Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste.

VII. Operational Practices

A. VENTING AND FLARING OF NATURAL GAS

Kaiser-Francis Oil Company (KFOC) will maximize the recovery of natural gas by minimizing the waste of natural gas through venting and flaring during drilling, completion, and production operations as outlined in 19.15.27.8 NMAC. KFOC will flare rather than vent natural gas except when flaring is technically infeasible or would pose a safety risk and venting is a safer alternative than flaring. KFOC will ensure well(s) are connected to a natural gas gathering system with sufficient capacity to transport natural gas.

B. Venting and flaring during drilling operations

KFOC will combust natural gas brought to the surface during drilling operations. A properly sized flare stack will be located at a minimum of 100 feet from the nearest surface hole location. In case of emergency or malfunction, KFOC will report natural gas volumes, vented or flared.

C. Venting and flaring during completion or recompletion operations

During completion operations, KFOC will flare natural gas brought to the surface and commence operation of a separator once technically feasible. Produced natural gas from separation equipment will be sold. If natural gas does not meet gathering pipeline quality specifications, KFOC will flare for no more than 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner.

D. Venting and flaring during production operations

KFOC will not vent or flare natural gas during production, except for provisions defined by 19.15.27.8.D (1) through (4). KFOC will report natural gas volumes, vented or flared, appropriately.

E. Performance Standards

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KFOC will comply with performance standards outlined in 19.15.27.8.E to minimize waste. Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste. Any permanent storage tank associated with production operations that is

routed to a flare or control device will be equipped with an automatic gauging system that reduces the venting of natural gas. KFOC will combust natural gas in a flare stack that is properly sized and designed to ensure proper combustion efficiency. Flare stacks will be equipped with an automatic ignitor or continuous pilot. KFOC will conduct an AVO inspection on the frequency specified in Subsection D of 19.15.27.8 NMAC. All emergencies will be resolved as quickly and safely as feasible.

F. Measurement or estimation of vented or flared natural gas

KFOC will measure or estimate natural gas that is vented, flared, or beneficially used during drilling, completion, and production operations. Equipment will be installed to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility, authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60,000 cubic feet of natural gas. Measuring equipment will conform to an industry standard. Where measuring is not feasible, volumes will be estimated.

VIII. Best Management Practices

During active and planned maintenance, venting will be limited to the depressurization of the equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut-in to eliminate venting. During VRU maintenance, gas normally routed to the VRU will be flared.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
PO Box 21468	Action Number:
Tulsa, OK 74121146	163385
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	12/8/2022
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	12/8/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	12/8/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	12/8/2022

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