Form 3160-3 (June 2015) UNITED STATE	GC.				OME	M APPROV 3 No. 1004-0 3: January 31	137
DEPARTMENT OF THE I BUREAU OF LAND MAN	INTERI	_			5. Lease Serial N	No.	
APPLICATION FOR PERMIT TO I	ORILL (OR REENT	ER		6. If Indian, Allo	otee or Tribe	Name
1b. Type of Well: Oil Well Gas Well G	REENTER Other Single Zon		ole Zone		7. If Unit or CA. 8. Lease Name a	and Well No.	
2. Name of Operator					9. API Well No.	[31670	
[12361] 3a. Address	3b. Pho	one No. (includ	le area code	2)	10. Field and Po		025-52006
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
 Location of Well (Report location clearly and in accordance At surface At proposed prod. zone 	with any	State requirem	ents.*)		11. Sec., T. R. M	I. or Blk. and	l Survey or Area
14. Distance in miles and direction from nearest town or post of	ffice*				12. County or Pa	nrish	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No	of acres in lea	se	17. Spacin	g Unit dedicated	to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Pro	oposed Depth		20, BLM/	BIA Bond No. in	file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Apj	proximate date	work will	start*	23. Estimated du	ıration	
	24. /	Attachments					
The following, completed in accordance with the requirements of (as applicable)	of Onshor	e Oil and Gas	Order No. 1	, and the H	ydraulic Fracturir	ng rule per 43	3 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 Syste SUPO must be filed with the appropriate Forest Service Office 		the 5. Oper	20 above). ator certific other site sp	ation.	s unless covered b		
25. Signature	N	Name (Printed)				Date	
Title							
Approved by (Signature)	N	Name (Printed/	Typed)			Date	
Title	(Office					
Application approval does not warrant or certify that the application applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds l	egal or equitab	le title to th	ose rights i	n the subject lease	e which wou	ild entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements						to any depar	tment or agency
NGMP Rec 09/13/2023				OVC	K		
SL	WEN	WITH C	ONDIT	INN	09/1	18/2023	
(Continued on page 2)	ממא				*((Instructio	ons on page 2

Released to Imaging: 9/18/2023 11:09:26 AM Approval Date: 02/26/2020

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (375) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (375) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (305) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

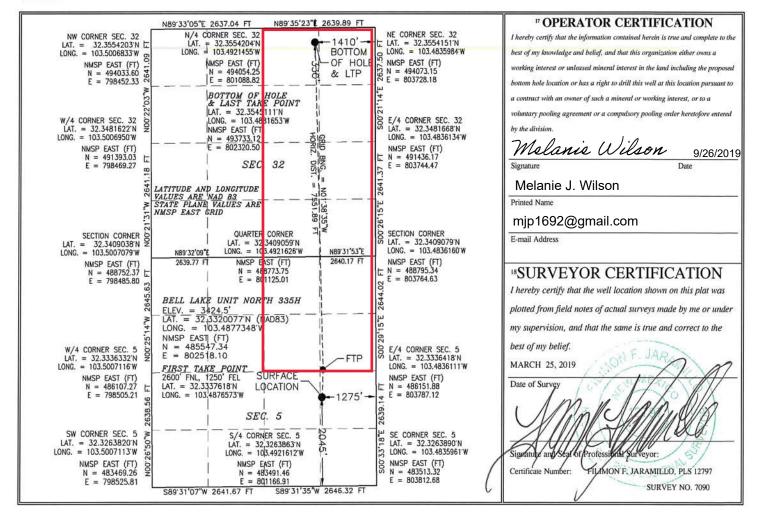
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-02	25-5200	Ď6		² Pool Code 98259	3	Ojo	Chiso;Bon	^{™e} ∋ Spring, Sc	uthwest
4 Property	Code				5 Propert	y Name			⁶ Well Number
3167	707			I	BELL LAKE U	JNIT NORTH			335H
7OGRID	No.				⁸ Operato	or Name		*	⁹ Elevation
1236	1			K	AISER-FRAN	ICIS OIL CO.			3424.5
					10 Surface	Location			,
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	5	23 S	34 E		2045	SOUTH	1275	EAST	LEA
,			пB	ottom H	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/West line	County
В	32	22 S	34 E		330	NORTH	1410	EAST	LEA
12 Dedicated Acre	es 13 Joint	or Infill	Consolidation	n Code	•		15 Order No.	•	
480							R-24527	Α	

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.



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically 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

I. Operator: Kaiser-Francis Oil Company OGRID: 12361 Date: 9 /13 /2023

II. Type: ☒ Original ☐	l Amendmen	t due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NMAC □	Other.	
If Other, please describes	:						
III. Well(s): Provide the be recompleted from a si					wells proposed to	be drilled or pro	posed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipate Produced W BBL/D	
Bell Lake Unit North 335H		UL-I Sec 5-T23S-R34E	2045FSL 1275FE	1800	3000	2000	
V. Anticipated Schedule proposed to be recomple Well Name	e: Provide th	e following informat			Initial	Flow First Pro	duction
Bell Lake Unit North 335H		TBD	TBD	TBD	TBD	TBD	
VI. Separation Equipm VII. Operational Pract Subsection A through F of the VIII. Best Managemen during active and planne	ices: Atta of 19.15.27.8 t Practices:	ch a complete descr S NMAC.	iption of the act	ions Operator wil	l take to comply	with the requirer	ments of

Kaiser-Francis Oil Company Natural Gas Management Plan

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

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.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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.

🖾 Operator 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. 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 \square	will □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well	prior to the date of first pr	oduction.			

XIII. Line Pressure. Operator \square does \square 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).

$\overline{}$	A 1 .	<u> </u>	, 1		1	•	4 41 .	1 1'	
	Affach (Inerator	's nian to	manage	nraduction	in rechange	to the incre	ased line pressu	re

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information j	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.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

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

☐ 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.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Christina Opfer Printed Name: Christina Opfer Title: Regulatory Manager E-mail Address: ChristinaO@kfoc.net Date: 9/13/2023 Phone: 918-491-4468 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By:
Title: Regulatory Manager E-mail Address: ChristinaO@kfoc.net Date: 9/13/2023 Phone: 918-491-4468 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By:
ChristinaO@kfoc.net Date: 9/13/2023 Phone: 918-491-4468 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By:
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(Only applicable when submitted as a standalone form) Approved By:
Approved By:
Title:
Approval Date:
Conditions of Approval:

Bell Lake Unit North 335H

Location Table

Wellbore	NS-	NS	EW-	EW	TWSP	Range	Sec	Aliquot	Latitude	Longitude	Lease	Elevation	MD	TVD
	Foot	Indicator	Foot	Indicator							Number			
SHL	2045	FSL	1275	FEL	23S	34E	5	NESE	32.3320077	-103.4877348	NMNM	3425	0	0
											0001244A			
KOP	2250	FSL	1249	FEL	23S	34E	5	NESE	32.33257	-103.487945	NMNM	-7507	10968	10932
											0001244A			
FTP	2640	FNL	1250	FEL	23S	34E	5	SENE	32.33268	-103.487644	NMNM00	-7707	11462	11132
											00587			
PPP 1	2660	FNL	1250	FEL	23S	34E	5	SENE	32.3337618	-103.4876573	NMNM00	-7707	11462	11132
											00587			
LTP	330	FNL	1410	FEL	22S	34E	32	NWNE	32.3545111	-103.4881653	STATE	-7707	19011	11132
BHL	330	FNL	1410	FEL	22S	34E	32	NWNE	32.3545111	-103.4881653	STATE	-7707	19011	11132

Section 1- Formation Tops

Formation Name	Formation Top TVD
Rustler	1222
Top of Salt	1822
Base of Salt/ Delaware	4722
Bell Canyon	5172
Cherry Canyon	6197
Brushy Canyon	4764
Avalon Sand	8717
1st Bone Spring Sand	9522
2nd Bone Spring Sand & Lime	10017
3rd Bone Spring Sand	10932

Section 2-BOP

Pressure Rating: 5M

Rating Depth: 10,000

Equipment: A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram, and safety valves with appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum of 3" line and kill side will be a minimum of 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 will be unobstructed. A manual and hydraulic valve (3" min) will be installed on the choke line, 3 chokes will be sued 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 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. If the system is upgraded all of the components installed will be functional and tested.

Section 3- Casing

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)
Surface	1247′	10-3/4"	40.5	J-55	STC	New	14-3/4"	1247′
Intermediate	10384'	7-5/8"	29.7	HCP-110	LTC	New	9-7/8"	10382'
Production	19010'	5-1/2"	20	P110 HP	GBCD	New	6-3/4"	11132′

Interval	Collapse Safety Factor (Min 1.1)	Burst Safety Factor (Min 1.0)	Body Tensile Safety Factor (Min 1.8)	Joint Tensile Safety Factor (Min 1.8)
Surface	2.7	5.4	12.5	8.3
Intermediate	1.4	1.9	3.0	2.5
Production	1.9	2.1	3.3	2.8

Section 4- Cement

String	Lead/	Тор	Bottom	Quantity	Yield	Density	Cu Ft	% Excess	Cement	Additives
	Tail	MD	MD	(sx)					Type	
Surface	Lead	0	1247	601	1.7	13.5	1039	50	ExtendaCem	Poly E Flake
Intermediate	Lead	0	10384	786	2.7	11	2146	25	NeoCem	Extender
Intermediate	Tail	0	10384	536	1.2	15.6	641	25	HalCem	none
Production	Lead	9000	19011	800	1.2	14.5	978	15	VersaCem	Halad

Section 5- Circulating Medium

Top Depth	Bottom Depth	Mud Type	Weight Min-Max Ibs/gal
0	1350	Fresh Water	8.4-9.0
1350	11426	Brine	8.7-9.0
11426	19882	Oil-Based	10.0-12.0

Mud System Type: Closed

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Mud Monitoring System: PVT/Pason/Vision Monitoring

Section 6- Test, Logging, Coring,

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

List of Logs to be run in the well: Directional Survey, Gamma Ray Log, Mud Log/Geological Lithology, Compensated Neutron Log

No coring is planned.

Section 7- Drilling Conditions

Anticipated Bottom Hole Pressure: 6946

Anticipated Surface Pressure: 4496

Anticipated Bottom Hole Temperature (F): 199

No anticipated abnormal pressure, temperatures, or potential geologic hazards.

H2S Contingency plan attached.

KAISER-FILANCIS OIL COMPANY

Kaiser Francis

Bell Lake Unit North 335H Bell Lake Unit North 335H Bell Lake Unit North 335H Bell Lake Unit North 335H

Plan: 190617 Bell Lake Unit North 335H

Morcor Standard Plan

17 June, 2019

Morcor Standard Plan

KAISER-PRANCIS OIL COMBANY

Map Zone:

Company: Kaiser Francis

Project: Bell Lake Unit North 335H
Site: Bell Lake Unit North 335H
Well: Bell Lake Unit North 335H
Wellbore: Bell Lake Unit North 335H

Design: 190617 Bell Lake Unit North 335H

Local Co-ordinate Reference: Well Bell Lake Unit North 335H

TVD Reference: WELL @ 3446.5usft (Original W

WELL @ 3446.5usft (Original Well Elev)
WELL @ 3446.5usft (Original Well Elev)

MD Reference: WELL @
North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Project Bell Lake Unit North 335H

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Bell Lake Unit North 335H

Northing: 485,547.34 usft Site Position: Latitude: 32° 19' 55.228 N From: Мар Easting: 802,518.10 usft Longitude: 103° 29' 15.845 W Slot Radius: **Grid Convergence:** 0.45 **Position Uncertainty:** 1.0 usft 17-1/2 "

Well Bell Lake Unit North 335H **Well Position** +N/-S 32° 19' 55.228 N 0.0 usft Northing: 485,547.34 usft Latitude: +E/-W 0.0 usft 802.518.10 usft 103° 29' 15.845 W Easting: Longitude: 1.0 usft **Position Uncertainty** Wellhead Elevation: usft **Ground Level:** 3,424.5 usft

Wellbore Bell Lake Unit North 335H Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) 6.56 47,889 IGRF2010 6/17/2019 60.09

Design 190617 Bell Lake Unit North 335H

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 358.62 0.0 0.0

 Survey Tool Program
 Date
 6/17/2019

 From (usft)
 To
 From (usft)
 Survey (Wellbore)
 Tool Name
 Description

 0.0
 19,010.8
 190617 Bell Lake Unit North 335H (Bell La
 MWD
 MWD - Standard

Morcor Standard Plan

Kaiser Francis Company:

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design: 190617 Bell Lake Unit North 335H Local Co-ordinate Reference:

Well Bell Lake Unit North 335H TVD Reference: WELL @ 3446.5usft (Original Well Elev) MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference:

Grid **Survey Calculation Method:** Minimum Curvature

EDM 5000.1 Single User Db Database:

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)
0.0	0.00	0.00	0.0	-3,446.5	0.0	0.0	802,518.10	485,547.34	0.00	0
100.0	0.00	0.00	100.0	-3,346.5	0.0	0.0	802,518.10	485,547.34	0.00	0
120.0	0.00	0.00	120.0	-3,326.5	0.0	0.0	802,518.10	485,547.34	0.00	C
20" Conductor										
200.0	0.00	0.00	200.0	-3,246.5	0.0	0.0	802,518.10	485,547.34	0.00	(
300.0	0.00	0.00	300.0	-3,146.5	0.0	0.0	802,518.10	485,547.34	0.00	(
400.0	0.00	0.00	400.0	-3,046.5	0.0	0.0	802,518.10	485,547.34	0.00	(
500.0	0.00	0.00	500.0	-2,946.5	0.0	0.0	802,518.10	485,547.34	0.00	(
600.0	0.00	0.00	600.0	-2,846.5	0.0	0.0	802,518.10	485,547.34	0.00	
700.0	0.00	0.00	700.0	-2,746.5	0.0	0.0	802,518.10	485,547.34	0.00	
800.0	0.00	0.00	800.0	-2,646.5	0.0	0.0	802,518.10	485,547.34	0.00	
900.0	0.00	0.00	900.0	-2,546.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,000.0	0.00	0.00	1,000.0	-2,446.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,100.0	0.00	0.00	1,100.0	-2,346.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,200.0	0.00	0.00	1,200.0	-2,246.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,222.0	0.00	0.00	1,222.0	-2,224.5	0.0	0.0	802,518.10	485,547.34	0.00	
Rustler										
1,247.0	0.00	0.00	1,247.0	-2,199.5	0.0	0.0	802,518.10	485,547.34	0.00	
10 3/4" Surface	Casing									
1,300.0	0.00	0.00	1,300.0	-2,146.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,400.0	0.00	0.00	1,400.0	-2,046.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,500.0	0.00	0.00	1,500.0	-1,946.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,600.0	0.00	0.00	1,600.0	-1,846.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,622.0	0.00	0.00	1,622.0	-1,824.5	0.0	0.0	802,518.10	485,547.34	0.00	
Salado										
1,700.0	0.00	0.00	1,700.0	-1,746.5	0.0	0.0	802,518.10	485,547.34	0.00	
1,800.0	0.00	0.00	1,800.0	-1,646.5	0.0	0.0	802,518.10	485,547.34	0.00	

Morcor Standard Plan

Company: Kaiser Francis

Project: Bell Lake Unit North 335H
Site: Bell Lake Unit North 335H
Well: Bell Lake Unit North 335H
Wellbore: Bell Lake Unit North 335H
Design: 190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

WELL @ 3446 Sust (Original W

TVD Reference: WELL @ 3446.5usft (Original Well Elev)
MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

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)
1,822.0	0.00	0.00	1,822.0	-1,624.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
Top of Salt										
1,900.0	0.00	0.00	1,900.0	-1,546.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,000.0	0.00	0.00	2,000.0	-1,446.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,100.0	0.00	0.00	2,100.0	-1,346.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,200.0	0.00	0.00	2,200.0	-1,246.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,300.0	0.00	0.00	2,300.0	-1,146.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,400.0	0.00	0.00	2,400.0	-1,046.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
2,500.0	0.00	0.00	2,500.0	-946.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
2,600.0	0.00	0.00	2,600.0	-846.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
2,700.0	0.00	0.00	2,700.0	-746.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
2,800.0	0.00	0.00	2,800.0	-646.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
2,900.0	0.00	0.00	2,900.0	-546.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,000.0	0.00	0.00	3,000.0	-446.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,100.0	0.00	0.00	3,100.0	-346.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,200.0	0.00	0.00	3,200.0	-246.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,300.0	0.00	0.00	3,300.0	-146.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,400.0	0.00	0.00	3,400.0	-46.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,500.0	0.00	0.00	3,500.0	53.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,600.0	0.00	0.00	3,600.0	153.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,700.0	0.00	0.00	3,700.0	253.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,800.0	0.00	0.00	3,800.0	353.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
3,900.0	0.00	0.00	3,900.0	453.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
4,000.0	0.00	0.00	4,000.0	553.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
4,100.0	0.00	0.00	4,100.0	653.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
4,200.0	0.00	0.00	4,200.0	753.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0
4,300.0	0.00	0.00	4,300.0	853.5	0.0	0.0	802,518.10	485,547.34	0.00	0.0

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design: 190617 Bell Lake Unit North 335H Local Co-ordinate Reference:

Well Bell Lake Unit North 335H TVD Reference: WELL @ 3446.5usft (Original Well Elev)

MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

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)
4,400.0	0.00	0.00	4,400.0	953.5	0.0	0.0	802,518.10	485,547.34	0.00	(
4,500.0	0.00	0.00	4,500.0	1,053.5	0.0	0.0	802,518.10	485,547.34	0.00	
4,600.0	0.00	0.00	4,600.0	1,153.5	0.0	0.0	802,518.10	485,547.34	0.00	
4,700.0	0.00	0.00	4,700.0	1,253.5	0.0	0.0	802,518.10	485,547.34	0.00	
4,722.0	0.00	0.00	4,722.0	1,275.5	0.0	0.0	802,518.10	485,547.34	0.00	
Base of Salt										
4,800.0	0.00	0.00	4,800.0	1,353.5	0.0	0.0	802,518.10	485,547.34	0.00	
4,900.0	0.00	0.00	4,900.0	1,453.5	0.0	0.0	802,518.10	485,547.34	0.00	
4,972.0	0.00	0.00	4,972.0	1,525.5	0.0	0.0	802,518.10	485,547.34	0.00	
Lamar										
5,000.0	0.00	0.00	5,000.0	1,553.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,100.0	0.00	0.00	5,100.0	1,653.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,172.0	0.00	0.00	5,172.0	1,725.5	0.0	0.0	802,518.10	485,547.34	0.00	
Bell Canyon										
5,200.0	0.00	0.00	5,200.0	1,753.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,300.0	0.00	0.00	5,300.0	1,853.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,400.0	0.00	0.00	5,400.0	1,953.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,500.0	0.00	0.00	5,500.0	2,053.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,600.0	0.00	0.00	5,600.0	2,153.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,700.0	0.00	0.00	5,700.0	2,253.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,800.0	0.00	0.00	5,800.0	2,353.5	0.0	0.0	802,518.10	485,547.34	0.00	
5,900.0	0.00	0.00	5,900.0	2,453.5	0.0	0.0	802,518.10	485,547.34	0.00	
6,000.0	0.00	0.00	6,000.0	2,553.5	0.0	0.0	802,518.10	485,547.34	0.00	
6,100.0	0.00	0.00	6,100.0	2,653.5	0.0	0.0	802,518.10	485,547.34	0.00	
6,197.0	0.00	0.00	6,197.0	2,750.5	0.0	0.0	802,518.10	485,547.34	0.00	
Cherry Canyon 6,200.0	0.00	0.00	6,200.0	2,753.5	0.0	0.0	802,518.10	485,547.34	0.00	

Morcor Standard Plan

'

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H
Site: Bell Lake Unit North 335H
Well: Bell Lake Unit North 335H
Wellbore: Bell Lake Unit North 335H
Design: 190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well Bell Lake Unit North 335H

WELL @ 3446.5usft (Original Well Elev)
WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
6,300.0	0.00	0.00	6,300.0	2,853.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,400.0	0.00	0.00	6,400.0	2,953.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,500.0	0.00	0.00	6,500.0	3,053.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,600.0	0.00	0.00	6,600.0	3,153.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,700.0	0.00	0.00	6,700.0	3,253.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,800.0	0.00	0.00	6,800.0	3,353.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
6,900.0	0.00	0.00	6,900.0	3,453.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,000.0	0.00	0.00	7,000.0	3,553.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,100.0	0.00	0.00	7,100.0	3,653.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,200.0	0.00	0.00	7,200.0	3,753.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,300.0	0.00	0.00	7,300.0	3,853.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,400.0	0.00	0.00	7,400.0	3,953.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,500.0	0.00	0.00	7,500.0	4,053.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,522.0	0.00	0.00	7,522.0	4,075.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
Brushy Canyon										
7,600.0	0.00	0.00	7,600.0	4,153.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,700.0	0.00	0.00	7,700.0	4,253.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,800.0	0.00	0.00	7,800.0	4,353.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
7,900.0	0.00	0.00	7,900.0	4,453.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,000.0	0.00	0.00	8,000.0	4,553.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,100.0	0.00	0.00	8,100.0	4,653.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,200.0	0.00	0.00	8,200.0	4,753.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,300.0	0.00	0.00	8,300.0	4,853.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,400.0	0.00	0.00	8,400.0	4,953.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,500.0	0.00	0.00	8,500.0	5,053.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00
8,600.0	0.00	0.00	8,600.0	5,153.5	0.0	0.0	802,518.10	485,547.34	0.00	0.00

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design:

190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Bell Lake Unit North 335H

WELL @ 3446.5usft (Original Well Elev) WELL @ 3446.5usft (Original Well Elev)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

ned 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)
8,622.0	0.00	0.00	8,622.0	5,175.5	0.0	0.0	802,518.10	485,547.34	0.00	0
Bone Spring										
8,700.0	0.00	0.00	8,700.0	5,253.5	0.0	0.0	802,518.10	485,547.34	0.00	(
8,717.0	0.00	0.00	8,717.0	5,270.5	0.0	0.0	802,518.10	485,547.34	0.00	(
Avalon										
8,800.0	0.00	0.00	8,800.0	5,353.5	0.0	0.0	802,518.10	485,547.34	0.00	(
8,900.0	0.00	0.00	8,900.0	5,453.5	0.0	0.0	802,518.10	485,547.34	0.00	(
9,000.0	0.00	0.00	9,000.0	5,553.5	0.0	0.0	802,518.10	485,547.34	0.00	(
9,100.0	0.00	0.00	9,100.0	5,653.5	0.0	0.0	802,518.10	485,547.34	0.00	(
9,200.0	0.00	0.00	9,200.0	5,753.5	0.0	0.0	802,518.10	485,547.34	0.00	(
9,300.0	0.00	0.00	9,300.0	5,853.5	0.0	0.0	802,518.10	485,547.34	0.00	
9,400.0	0.00	0.00	9,400.0	5,953.5	0.0	0.0	802,518.10	485,547.34	0.00	(
9,500.0	0.00	0.00	9,500.0	6,053.5	0.0	0.0	802,518.10	485,547.34	0.00	
9,522.0	0.00	0.00	9,522.0	6,075.5	0.0	0.0	802,518.10	485,547.34	0.00	(
1st Bone Spring										
9,600.0	0.00	0.00	9,600.0	6,153.5	0.0	0.0	802,518.10	485,547.34	0.00	
Start Build 3.00										
9,700.0	3.00	17.64	9,700.0	6,253.5	2.5	0.8	802,518.89	485,549.83	2.47	;
9,747.4	4.42	17.64	9,747.2	6,300.7	5.4	1.7	802,519.82	485,552.76	5.37	;
Start 856.2 hold										
9,800.0	4.42	17.64	9,799.7	6,353.2	9.3	3.0	802,521.05	485,556.62	9.21	(
9,900.0	4.42	17.64	9,899.4	6,452.9	16.6	5.3	802,523.39	485,563.97	16.50	(
10,000.0	4.42	17.64	9,999.1	6,552.6	24.0	7.6	802,525.72	485,571.32	23.78	
10,018.0	4.42	17.64	10,017.0	6,570.5	25.3	8.0	802,526.14	485,572.63	25.09	
2nd Bone Sprin										
10,100.0	4.42	17.64	10,098.8	6,652.3	31.3	10.0	802,528.06	485,578.66	31.07	
10,200.0	4.42	17.64	10,198.5	6,752.0	38.7	12.3	802,530.39	485,586.01	38.36	
10,300.0	4.42	17.64	10,298.2	6,851.7	46.0	14.6	802,532.73	485,593.36	45.65	(

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design:

190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

Well Bell Lake Unit North 335H TVD Reference: WELL @ 3446.5usft (Original Well Elev)

MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

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)
10,384.0	4.42	17.64	10,382.0	6,935.5	52.2	16.6	802,534.69	485,599.53	51.77	0.00
7 5/8" Intermed	iate Casing									
10,400.0	4.42	17.64	10,397.9	6,951.4	53.4	17.0	802,535.06	485,600.70	52.94	0.0
10,500.0	4.42	17.64	10,497.6	7,051.1	60.7	19.3	802,537.40	485,608.05	60.23	0.0
10,524.5	4.42	17.64	10,522.0	7,075.5	62.5	19.9	802,537.97	485,609.85	62.01	0.0
3rd Bone Sprin	g Lime									
10,603.6	4.42	17.64	10,600.9	7,154.4	68.3	21.7	802,539.82	485,615.66	67.78	0.00
Start DLS 10.00										
10,650.0	8.93	7.70	10,647.0	7,200.5	73.6	22.7	802,540.84	485,620.94	73.03	10.00
10,700.0	13.89	4.28	10,696.0	7,249.5	83.4	23.7	802,541.81	485,630.77	82.84	10.00
10,750.0	18.87	2.64	10,743.9	7,297.4	97.5	24.5	802,542.63	485,644.84	96.88	10.0
10,800.0	23.85	1.67	10,790.5	7,344.0	115.7	25.2	802,543.30	485,663.04	115.06	10.00
10,850.0	28.85	1.01	10,835.3	7,388.8	137.9	25.7	802,543.81	485,685.22	137.22	10.0
10,900.0	33.84	0.54	10,878.0	7,431.5	163.9	26.1	802,544.15	485,711.21	163.20	10.00
10,950.0	38.84	0.17	10,918.2	7,471.7	193.5	26.2	802,544.33	485,740.83	192.80	10.00
10,967.9	40.63	0.06	10,932.0	7,485.5	204.9	26.3	802,544.36	485,752.28	204.24	10.00
3rd Bone Sprin	g Sand									
11,000.0	43.83	359.88	10,955.8	7,509.3	226.5	26.2	802,544.34	485,773.84	225.81	10.0
11,050.0	48.83	359.64	10,990.3	7,543.8	262.7	26.1	802,544.19	485,810.00	261.95	10.00
11,100.0	53.83	359.43	11,021.5	7,575.0	301.7	25.8	802,543.87	485,849.02	300.97	10.00
11,150.0	58.82	359.24	11,049.2	7,602.7	343.3	25.3	802,543.38	485,890.62	342.57	10.00
11,200.0	63.82	359.08	11,073.2	7,626.7	387.1	24.6	802,542.74	485,934.46	386.42	10.0
11,250.0	68.82	358.92	11,093.3	7,646.8	432.9	23.8	802,541.93	485,980.23	432.19	10.0
11,300.0	73.82	358.78	11,109.3	7,662.8	480.2	22.9	802,540.99	486,027.57	479.54	10.00
11,350.0	78.82	358.65	11,121.1	7,674.6	528.8	21.8	802,539.89	486,076.13	528.11	10.00
11,400.0	83.81	358.52	11,128.7	7,682.2	578.2	20.6	802,538.67	486,125.52	577.52	10.0
11,450.0	88.81	358.39	11,131.9	7,685.4	628.0	19.2	802,537.32	486,175.39	627.40	10.00

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design:

190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

Well Bell Lake Unit North 335H

TVD Reference: WELL @ 3446.5usft (Original Well Elev) MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

ned 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)
11,461.9	90.00	358.36	11,132.0	7,685.5	639.9	18.9	802,536.98	486,187.25	639.27	10.0
	ld at 11461.9 MD									
11,500.0	90.00	358.36	11,132.0	7,685.5	678.0	17.8	802,535.89	486,225.37	677.40	0.0
11,600.0	90.00	358.36	11,132.0	7,685.5	778.0	14.9	802,533.02	486,325.32	777.40	0.0
11,700.0	90.00	358.36	11,132.0	7,685.5	877.9	12.1	802,530.16	486,425.28	877.40	0.0
11,800.0	90.00	358.36	11,132.0	7,685.5	977.9	9.2	802,527.29	486,525.24	977.40	0.0
11,900.0	90.00	358.36	11,132.0	7,685.5	1,077.9	6.3	802,524.42	486,625.20	1,077.39	0.0
12,000.0	90.00	358.36	11,132.0	7,685.5	1,177.8	3.5	802,521.55	486,725.16	1,177.39	0.0
12,100.0	90.00	358.36	11,132.0	7,685.5	1,277.8	0.6	802,518.68	486,825.12	1,277.39	0.0
12,200.0	90.00	358.36	11,132.0	7,685.5	1,377.7	-2.3	802,515.82	486,925.08	1,377.39	0.0
12,300.0	90.00	358.36	11,132.0	7,685.5	1,477.7	-5.2	802,512.95	487,025.04	1,477.39	0.0
12,400.0	90.00	358.36	11,132.0	7,685.5	1,577.7	-8.0	802,510.08	487,124.99	1,577.39	0.0
12,500.0	90.00	358.36	11,132.0	7,685.5	1,677.6	-10.9	802,507.21	487,224.95	1,677.39	0.0
12,600.0	90.00	358.36	11,132.0	7,685.5	1,777.6	-13.8	802,504.35	487,324.91	1,777.39	0.0
12,700.0	90.00	358.36	11,132.0	7,685.5	1,877.5	-16.6	802,501.48	487,424.87	1,877.39	0.0
12,800.0	90.00	358.36	11,132.0	7,685.5	1,977.5	-19.5	802,498.61	487,524.83	1,977.38	0.
12,900.0	90.00	358.36	11,132.0	7,685.5	2,077.4	-22.4	802,495.74	487,624.79	2,077.38	0.
13,000.0	90.00	358.36	11,132.0	7,685.5	2,177.4	-25.2	802,492.87	487,724.75	2,177.38	0.0
13,100.0	90.00	358.36	11,132.0	7,685.5	2,277.4	-28.1	802,490.01	487,824.71	2,277.38	0.
13,200.0	90.00	358.36	11,132.0	7,685.5	2,377.3	-31.0	802,487.14	487,924.67	2,377.38	0.
13,300.0	90.00	358.36	11,132.0	7,685.5	2,477.3	-33.8	802,484.27	488,024.62	2,477.38	0.
13,400.0	90.00	358.36	11,132.0	7,685.5	2,577.2	-36.7	802,481.40	488,124.58	2,577.38	0.0
13,500.0	90.00	358.36	11,132.0	7,685.5	2,677.2	-39.6	802,478.54	488,224.54	2,677.38	0.0
13,600.0	90.00	358.36	11,132.0	7,685.5	2,777.2	-42.4	802,475.67	488,324.50	2,777.38	0.0
13,700.0	90.00	358.36	11,132.0	7,685.5	2,877.1	-45.3	802,472.80	488,424.46	2,877.38	0.
13,800.0	90.00	358.36	11,132.0	7,685.5	2,977.1	-48.2	802,469.93	488,524.42	2,977.37	0.
13,900.0	90.00	358.36	11,132.0	7,685.5	3,077.0	-51.0	802,467.07	488,624.38	3,077.37	0.0

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design:

190617 Bell Lake Unit North 335H

Local Co-ordinate Reference:

Well Bell Lake Unit North 335H TVD Reference: WELL @ 3446.5usft (Original Well Elev)

MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

ned 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)
14,000.0	90.00	358.36	11,132.0	7,685.5	3,177.0	-53.9	802,464.20	488,724.34	3,177.37	0.0
14,100.0	90.00	358.36	11,132.0	7,685.5	3,277.0	-56.8	802,461.33	488,824.30	3,277.37	0.0
14,200.0	90.00	358.36	11,132.0	7,685.5	3,376.9	-59.6	802,458.46	488,924.25	3,377.37	0.0
14,300.0	90.00	358.36	11,132.0	7,685.5	3,476.9	-62.5	802,455.59	489,024.21	3,477.37	0.
14,400.0	90.00	358.36	11,132.0	7,685.5	3,576.8	-65.4	802,452.73	489,124.17	3,577.37	0.
14,500.0	90.00	358.36	11,132.0	7,685.5	3,676.8	-68.2	802,449.86	489,224.13	3,677.37	0.
14,600.0	90.00	358.36	11,132.0	7,685.5	3,776.8	-71.1	802,446.99	489,324.09	3,777.37	0.
14,700.0	90.00	358.36	11,132.0	7,685.5	3,876.7	-74.0	802,444.12	489,424.05	3,877.37	0.
14,800.0	90.00	358.36	11,132.0	7,685.5	3,976.7	-76.8	802,441.26	489,524.01	3,977.36	0.
14,900.0	90.00	358.36	11,132.0	7,685.5	4,076.6	-79.7	802,438.39	489,623.97	4,077.36	0.
15,000.0	90.00	358.36	11,132.0	7,685.5	4,176.6	-82.6	802,435.52	489,723.93	4,177.36	0
15,100.0	90.00	358.36	11,132.0	7,685.5	4,276.5	-85.4	802,432.65	489,823.88	4,277.36	0
15,200.0	90.00	358.36	11,132.0	7,685.5	4,376.5	-88.3	802,429.78	489,923.84	4,377.36	0
15,300.0	90.00	358.36	11,132.0	7,685.5	4,476.5	-91.2	802,426.92	490,023.80	4,477.36	0
15,400.0	90.00	358.36	11,132.0	7,685.5	4,576.4	-94.1	802,424.05	490,123.76	4,577.36	0
15,500.0	90.00	358.36	11,132.0	7,685.5	4,676.4	-96.9	802,421.18	490,223.72	4,677.36	0
15,600.0	90.00	358.36	11,132.0	7,685.5	4,776.3	-99.8	802,418.31	490,323.68	4,777.36	0
15,700.0	90.00	358.36	11,132.0	7,685.5	4,876.3	-102.7	802,415.45	490,423.64	4,877.35	0
15,800.0	90.00	358.36	11,132.0	7,685.5	4,976.3	-105.5	802,412.58	490,523.60	4,977.35	0.
15,900.0	90.00	358.36	11,132.0	7,685.5	5,076.2	-108.4	802,409.71	490,623.56	5,077.35	0
16,000.0	90.00	358.36	11,132.0	7,685.5	5,176.2	-111.3	802,406.84	490,723.51	5,177.35	0
16,100.0	90.00	358.36	11,132.0	7,685.5	5,276.1	-114.1	802,403.98	490,823.47	5,277.35	0
16,200.0	90.00	358.36	11,132.0	7,685.5	5,376.1	-117.0	802,401.11	490,923.43	5,377.35	0
16,300.0	90.00	358.36	11,132.0	7,685.5	5,476.1	-119.9	802,398.24	491,023.39	5,477.35	0.
16,400.0	90.00	358.36	11,132.0	7,685.5	5,576.0	-122.7	802,395.37	491,123.35	5,577.35	0
16,500.0	90.00	358.36	11,132.0	7,685.5	5,676.0	-125.6	802,392.50	491,223.31	5,677.35	0
16,600.0	90.00	358.36	11,132.0	7,685.5	5,775.9	-128.5	802,389.64	491,323.27	5,777.35	0

Morcor Standard Plan

Company:

Kaiser Francis

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design: 190617 Bell Lake Unit North 335H Local Co-ordinate Reference:

Well Bell Lake Unit North 335H TVD Reference: WELL @ 3446.5usft (Original Well Elev)

MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

Planned	Survey
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
16,700.0	90.00	358.36	11,132.0	7,685.5	5,875.9	-131.3	802,386.77	491,423.23	5,877.34	0.00
16,800.0	90.00	358.36	11,132.0	7,685.5	5,975.8	-134.2	802,383.90	491,523.19	5,977.34	0.00
16,900.0	90.00	358.36	11,132.0	7,685.5	6,075.8	-137.1	802,381.03	491,623.14	6,077.34	0.00
17,000.0	90.00	358.36	11,132.0	7,685.5	6,175.8	-139.9	802,378.17	491,723.10	6,177.34	0.00
17,100.0	90.00	358.36	11,132.0	7,685.5	6,275.7	-142.8	802,375.30	491,823.06	6,277.34	0.00
17,200.0	90.00	358.36	11,132.0	7,685.5	6,375.7	-145.7	802,372.43	491,923.02	6,377.34	0.00
17,300.0	90.00	358.36	11,132.0	7,685.5	6,475.6	-148.5	802,369.56	492,022.98	6,477.34	0.00
17,400.0	90.00	358.36	11,132.0	7,685.5	6,575.6	-151.4	802,366.69	492,122.94	6,577.34	0.00
17,500.0	90.00	358.36	11,132.0	7,685.5	6,675.6	-154.3	802,363.83	492,222.90	6,677.34	0.00
17,600.0	90.00	358.36	11,132.0	7,685.5	6,775.5	-157.1	802,360.96	492,322.86	6,777.34	0.00
17,700.0	90.00	358.36	11,132.0	7,685.5	6,875.5	-160.0	802,358.09	492,422.82	6,877.33	0.00
17,800.0	90.00	358.36	11,132.0	7,685.5	6,975.4	-162.9	802,355.22	492,522.77	6,977.33	0.00
17,900.0	90.00	358.36	11,132.0	7,685.5	7,075.4	-165.7	802,352.36	492,622.73	7,077.33	0.00
18,000.0	90.00	358.36	11,132.0	7,685.5	7,175.4	-168.6	802,349.49	492,722.69	7,177.33	0.00
18,100.0	90.00	358.36	11,132.0	7,685.5	7,275.3	-171.5	802,346.62	492,822.65	7,277.33	0.00
18,200.0	90.00	358.36	11,132.0	7,685.5	7,375.3	-174.3	802,343.75	492,922.61	7,377.33	0.00
18,300.0	90.00	358.36	11,132.0	7,685.5	7,475.2	-177.2	802,340.89	493,022.57	7,477.33	0.00
18,400.0	90.00	358.36	11,132.0	7,685.5	7,575.2	-180.1	802,338.02	493,122.53	7,577.33	0.00
18,500.0	90.00	358.36	11,132.0	7,685.5	7,675.1	-183.0	802,335.15	493,222.49	7,677.33	0.00
18,600.0	90.00	358.36	11,132.0	7,685.5	7,775.1	-185.8	802,332.28	493,322.44	7,777.32	0.00
18,700.0	90.00	358.36	11,132.0	7,685.5	7,875.1	-188.7	802,329.41	493,422.40	7,877.32	0.00
18,800.0	90.00	358.36	11,132.0	7,685.5	7,975.0	-191.6	802,326.55	493,522.36	7,977.32	0.00
18,900.0	90.00	358.36	11,132.0	7,685.5	8,075.0	-194.4	802,323.68	493,622.32	8,077.32	0.00
19,000.0	90.00	358.36	11,132.0	7,685.5	8,174.9	-197.3	802,320.81	493,722.28	8,177.32	0.00
19,010.8	90.00	358.36	11,132.0	7,685.5	8,185.7	-197.6	802,320.50	493,733.08	8,188.12	0.00
TD at 19010.8 - 5	5 1/2"									

Morcor Standard Plan

KAISEE-PRANCIS OIL COMPANY

Company: Kaiser Francis

Project: Bell Lake Unit North 335H
Site: Bell Lake Unit North 335H
Well: Bell Lake Unit North 335H
Wellbore: Bell Lake Unit North 335H

Design: 190617 Bell Lake Unit North 335H

Local Co-ordinate Reference: Well Bell Lake Unit North 335H

TVD Reference: WELL @ 3446.5usft (Original Well Elev)
MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
19,010.8	11,132.0	5 1/2"	5-1/2	6-3/4
120.0	120.0	20" Conductor	20	26
10,384.0	10,382.0	7 5/8" Intermediate Casing	7-5/8	9-7/8
1,247.0	1,247.0	10 3/4" Surface Casing	10-3/4	14-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Dip Lithology (°)	Dip Direction (°)
4,722.	0 4,722.0	Base of Salt	0.00	
1,622.	0 1,622.0	Salado	0.00	
10,524.	5 10,522.0	3rd Bone Spring Lime	0.00	
10,018.0	0 10,017.0	2nd Bone Spring Sand	0.00	
7,522.0	7,522.0	Brushy Canyon	0.00	
9,522.0	9,522.0	1st Bone Spring Sand	0.00	
1,222.0	0 1,222.0	Rustler	0.00	
5,172.0	5,172.0	Bell Canyon	0.00	
4,972.0	0 4,972.0	Lamar	0.00	
10,967.9	9 10,932.0	3rd Bone Spring Sand	0.00	
6,197.	0 6,197.0	Cherry Canyon	0.00	
8,717.	0 8,717.0	Avalon	0.00	
1,822.0	0 1,822.0	Top of Salt	0.00	
8,622.	0 8,622.0	Bone Spring	0.00	

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Morcor Engineering

Morcor Standard Plan

Kaiser Francis Company:

Project: Bell Lake Unit North 335H Site: Bell Lake Unit North 335H Well: Bell Lake Unit North 335H Wellbore: Bell Lake Unit North 335H Design:

190617 Bell Lake Unit North 335H

Local Co-ordinate Reference: Well Bell Lake Unit North 335H

TVD Reference: WELL @ 3446.5usft (Original Well Elev) MD Reference: WELL @ 3446.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

EDM 5000.1 Single User Db Database:

Plan Annotations

Measured	Vertical	Local Coord	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
9,600.0	9,600.0	0.0	0.0	Start Build 3.00
9,747.4	9,747.2	5.4	1.7	Start 856.2 hold at 9747.4 MD
10,603.6	10,600.9	68.3	21.7	Start DLS 10.00 TFO -19.33
11,461.9	11,132.0	639.9	18.9	Start 7549.0 hold at 11461.9 MD
19,010.8	11,132.0	8,185.8	-197.6	TD at 19010.8

Checked By:	Approved By:	Date:	
00000 = 5.			

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: Kaiser Francis Oil Company

LEASE NO.: | NMNM0000587

WELL NAME & NO.: Bell Lake Unit North 335H SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE 330' FNL & 1410' FEL

LOCATION: | Section 5, T 23S, R 34E, NMPM

COUNTY: Lea County, New Mexico

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **13-3/8**" surface casing shall be set at approximately **1685**' (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
 - a. **If cement does not circulate to 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 **6 hours** after pumping cement, ideally between 8-10 hours after.
 - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

- 2. The **9-5/8''** intermediate casing shall be set at approximately **5072'** and cemented to surface.
 - a. **If cement does not circulate to surface,** see B.1.a, c & d.
- 3. The **5-1/2**" production casing shall be cemented with at least **200' tie-back** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
- 2. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.
- 3. Variance for the use of a flex hose between the BOP and choke manifold is approved, however, the hose must meet API 16C specification as described in the attachments following these conditions.

D. SPECIAL REQUIREMENTS

- 2. 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 once it has been established.
 - a. A commercial well determination shall be submit after production has been established for at least six months. Secondary recovery unit wells are exempt from this requirement.

DR 02032020

GENERAL REQUIREMENTS

- 1. The BLM is to be notified in advance for a representative to witness:
 - a. Spudding the well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOP/BOPE tests (minimum of 4 hours)
 - Eddy County: Call the Carlsbad Field Office, (575) 361-2822
 - Lea County: Call the Hobbs Field Station, (575) 393-3612
- 2. 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:
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 3. 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.
- 4. 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 available upon request. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <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 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well-specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On the portion of well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in Onshore Order 2 III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the BOP/BOPE 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 which 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. The results of the test shall be made available upon request.
 - 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 BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
 - f. BOP/BOPE must be tested within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth

exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

- 1. 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.
- 2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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.

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EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

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

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

General Responsibilities

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

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

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

INDIVIDUAL RESPONSIBILITIES DURING AN H2S RELEASE

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

All Personnel:

1. On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

- 1. Check that all personnel are accounted for and their condition.
- 2. Administer or arrange for first aid treatment, and/or call EMTs as needed.
- 3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
- 4. Notify Contract management and Kaiser-Francis Representative.
- 5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible for Shut-in and Rescue:

- 1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
- 2. Utilize the buddy system to secure well and perform rescue(s).
- 3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

Kaiser-Francis Oil Company Representative:

- 1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
- 2. Notify company management or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

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

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

INSTRUCTIONS FOR IGNITION:

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

CONTACTING AUTHORITIES

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

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

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

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

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

PROTECTION OF THE GENERAL PUBLIC/ROE:

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

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

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

Calculation for the 100 ppm ROE:

X = [(1.589)(concentration)(Q)] (0.6258)

(H2S concentrations in decimal form)

10,000 ppm +=1.+ 1,000 ppm +=.1+

,000 ppm +=.1+ 100 ppm +=.01+

100 ppm +=.001+

Calculation for the 500 ppm ROE: X+[(0.4546)(concentration)(Q)] (.06258)

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

ROE for 100 PPM X=[(1.589)(.0150)(200)] (0.6258)

X=2.65'

ROE for 500 PPM X=[(.4546)(.0150)(200)] (0.6258)

X=1.2'

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

PUBLIC EVACUATION PLAN:

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

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

CHARACTERISTICS OF H2S AND SO2

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen		1.189			
Sulfide	H ₂ S	Air = 1	10 ppm	100 ppm	600 ppm
		2.21			
Sulfur Dioxide	SO ₂	Air = 1	2 ppm	N/A	1000 ppm

TRAINING:

All responders must have training in the detection of H_2S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H_2S monitors at all times.

PUBLIC RELATIONS

Kaiser-Francis recognizes that the news media have a legitimate interest in incidents at Kaiser-Francis facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Kaiser-Francis employees are instructed <u>NOT</u> 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.

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

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

Action 264920

CONDITIONS

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
PO Box 21468	Action Number:
Tulsa, OK 74121146	264920
	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	9/18/2023
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	9/18/2023
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	9/18/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/18/2023
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.	9/18/2023