

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

Form C-101
August 1, 2011

Permit 379203

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468		2. OGRID Number 12361
4. Property Code 316706		3. API Number 30-025-54334
5. Property Name BELL LAKE UNIT SOUTH		6. Well No. 635H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	5	24S	34E		1660	S	385	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	32	23S	34E	A	25	N	1225	E	Lea

9. Pool Information

BELL LAKE;BONE SPRING, SOUTH	98264
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3575
16. Multiple N	17. Proposed Depth 16971	18. Formation Bone Spring	19. Contractor	20. Spud Date 5/5/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1250	915	0
Int1	12.25	9.625	45.5	5200	1433	0
Prod	8.5	5.5	20	16971	2082	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: _____ Printed Name: Electronically filed by Christina Opfer Title: _____ Email Address: christinaO@kfoc.net Date: 1/7/2025 Phone: 918-491-4468	OIL CONSERVATION DIVISION Approved By: Matthew Gomez Title: _____ Approved Date: 2/12/2025 Expiration Date: 2/12/2027 Conditions of Approval Attached
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-54334	Pool Code 98264	Pool Name Bell Lake; Bone Spring, South
Property Code 316706	Property Name BELL LAKE UNIT SOUTH	Well Number 635H
OGRID No. 12361	Operator Name KAISER-FRANCIS OIL COMPANY	Ground Level Elevation 3575'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
I	5	24-S	34-E	-	1660' S	385' E	N 32.2438980	W 103.4847196	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	32	23-S	34-E	-	25' N	1225' E	N 32.2682732	W 103.4874833	LEA

Dedicated Acres 479.76	Infill or Defining Well INFILL	Defining Well API 30-025-46625	Overlapping Spacing Unit (Y/N)	Consolidated Code
Order Numbers R-14600			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
I	5	24-S	34-E	-	1660' S	385' E	N 32.2438980	W 103.4847196	LEA

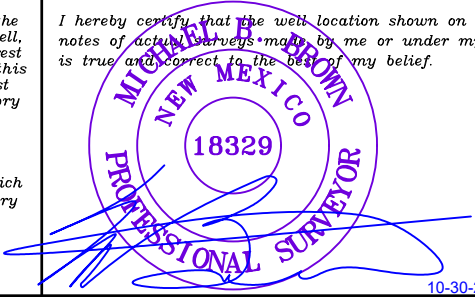
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
H	5	24-S	34-E	-	2630' N	1225' E	N 32.2466042	W 103.4874432	LEA

Last Take Point (LTP)

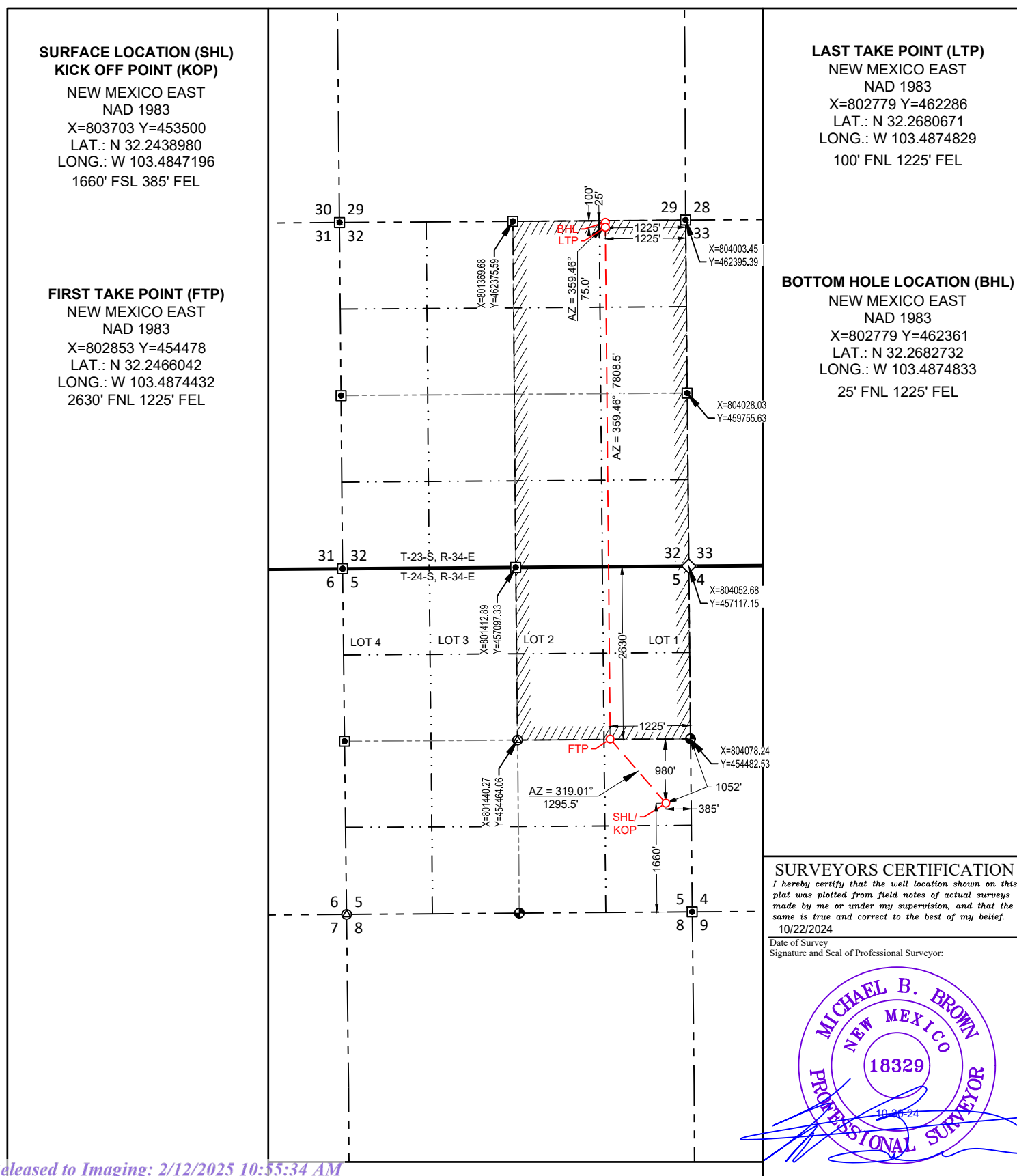
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	32	23-S	34-E	-	100' N	1225' E	N 32.2680671	W 103.4874829	LEA

Unitized Area or Area of Uniform Intrest UNITIZED	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3575'
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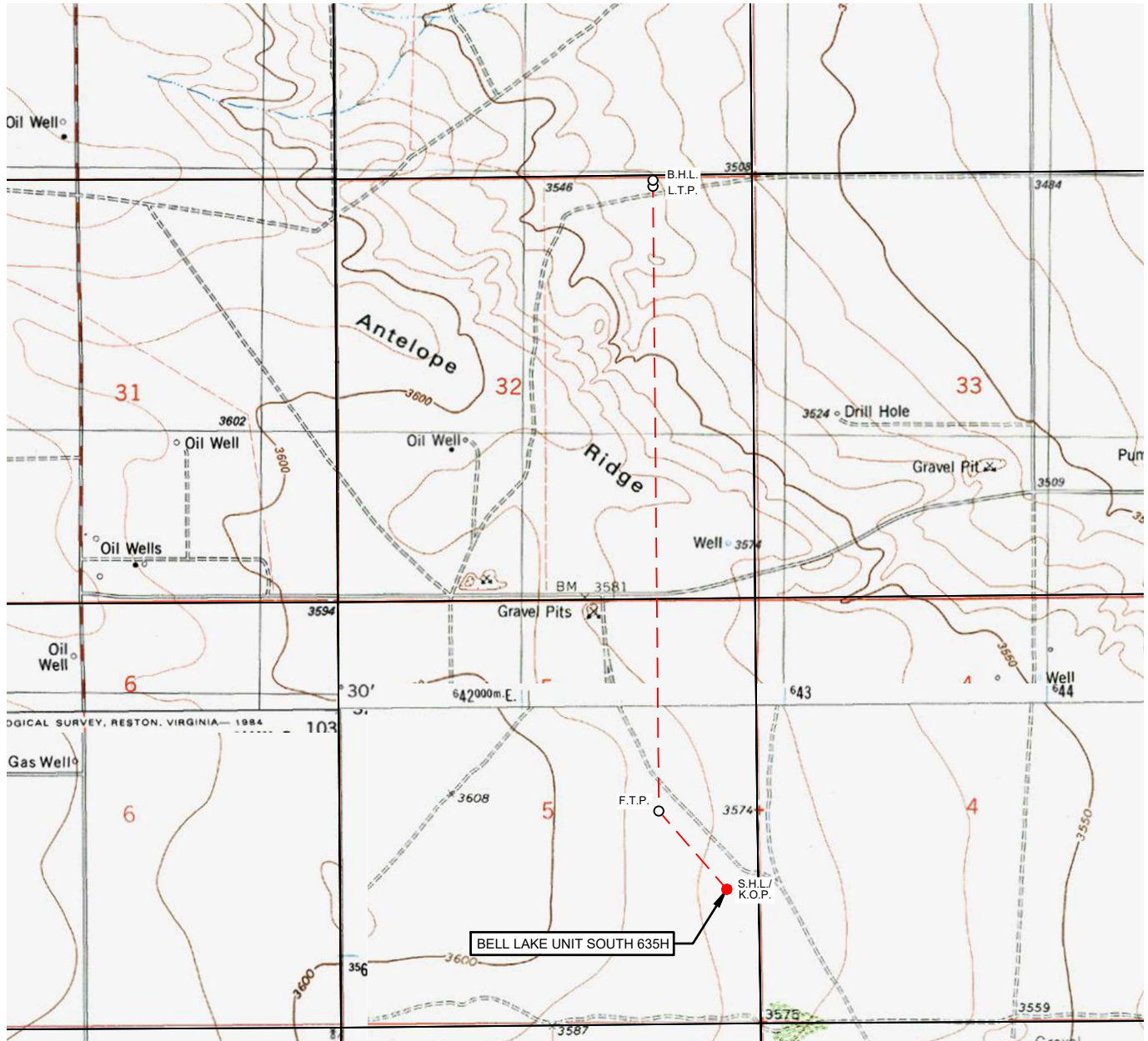
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Christina Opfer 10/30/2024 Signature Date Christina Opfer Print Name ChristinaO@kfoc.net E-mail Address		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  10-30-24 Signature and Seal of Professional Surveyor Date Certificate Number Date of Survey 10/22/2024	
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
Property Name and Well Number		☐ As Drilled	

BELL LAKE UNIT SOUTH 635H



LOCATION & ELEVATION VERIFICATION MAP



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH 635H

SECTION 5 TWP 24-S RGE 34-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3575'
 DESCRIPTION 1660' FSL & 385' FEL

LATITUDE N 32.2438980 LONGITUDE W 103.4847196

SCALE: 1" = 2000'
 0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

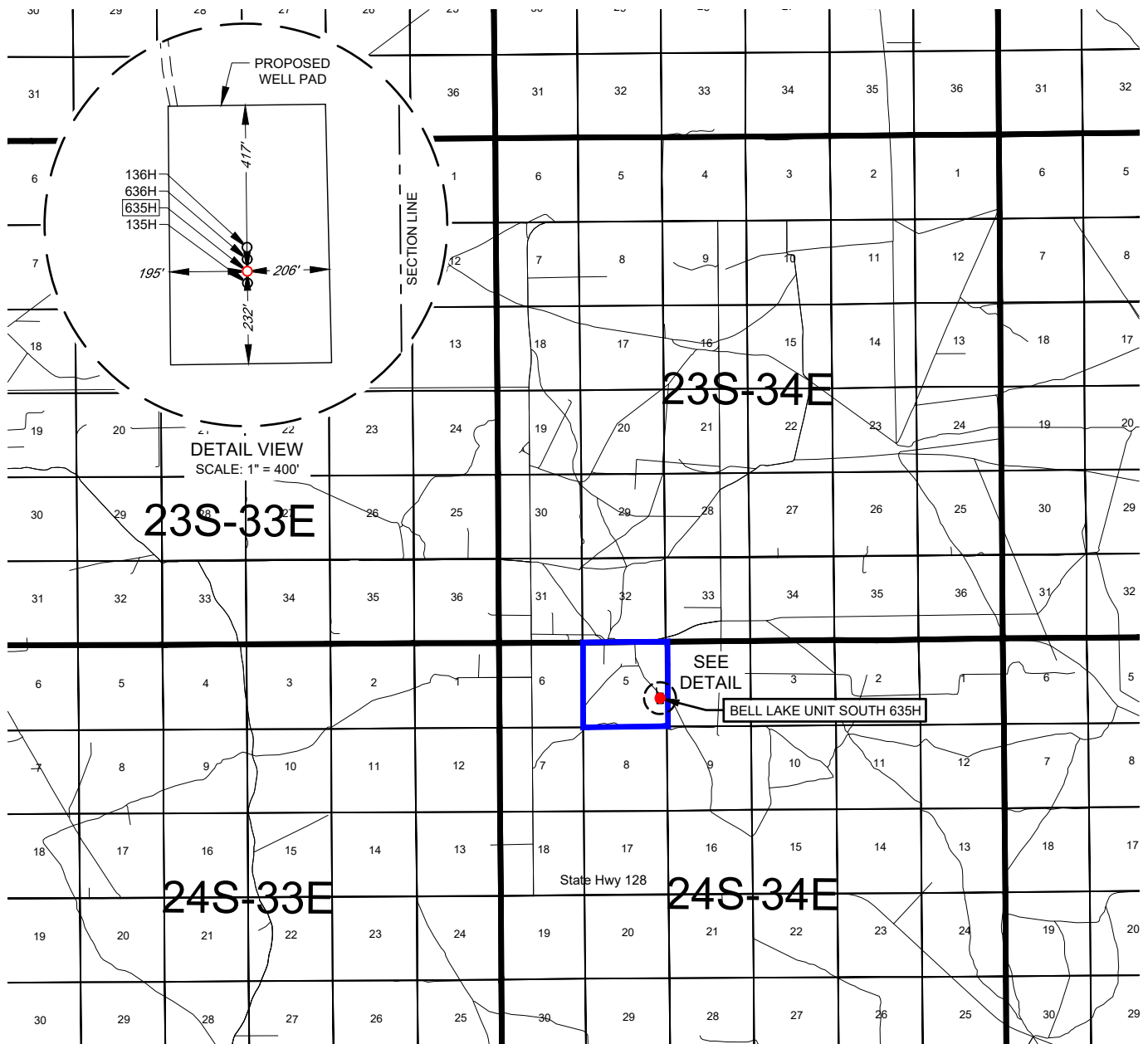


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EXHIBIT 2
VICINITY MAP

KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH 635HSECTION 5 TWP 24-S RGE 34-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 1660' FSL & 385' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-128 AND NM-18. GO WEST ON NM-128 ±19 MI.
THENCE NORTH (RIGHT) ON A LEASE RD. ±2.84 MI TO A POINT ±5025
FEET NORTHWEST OF THE LOCATION



SCALE: 1" = 10000'
 0' 5000' 10000'



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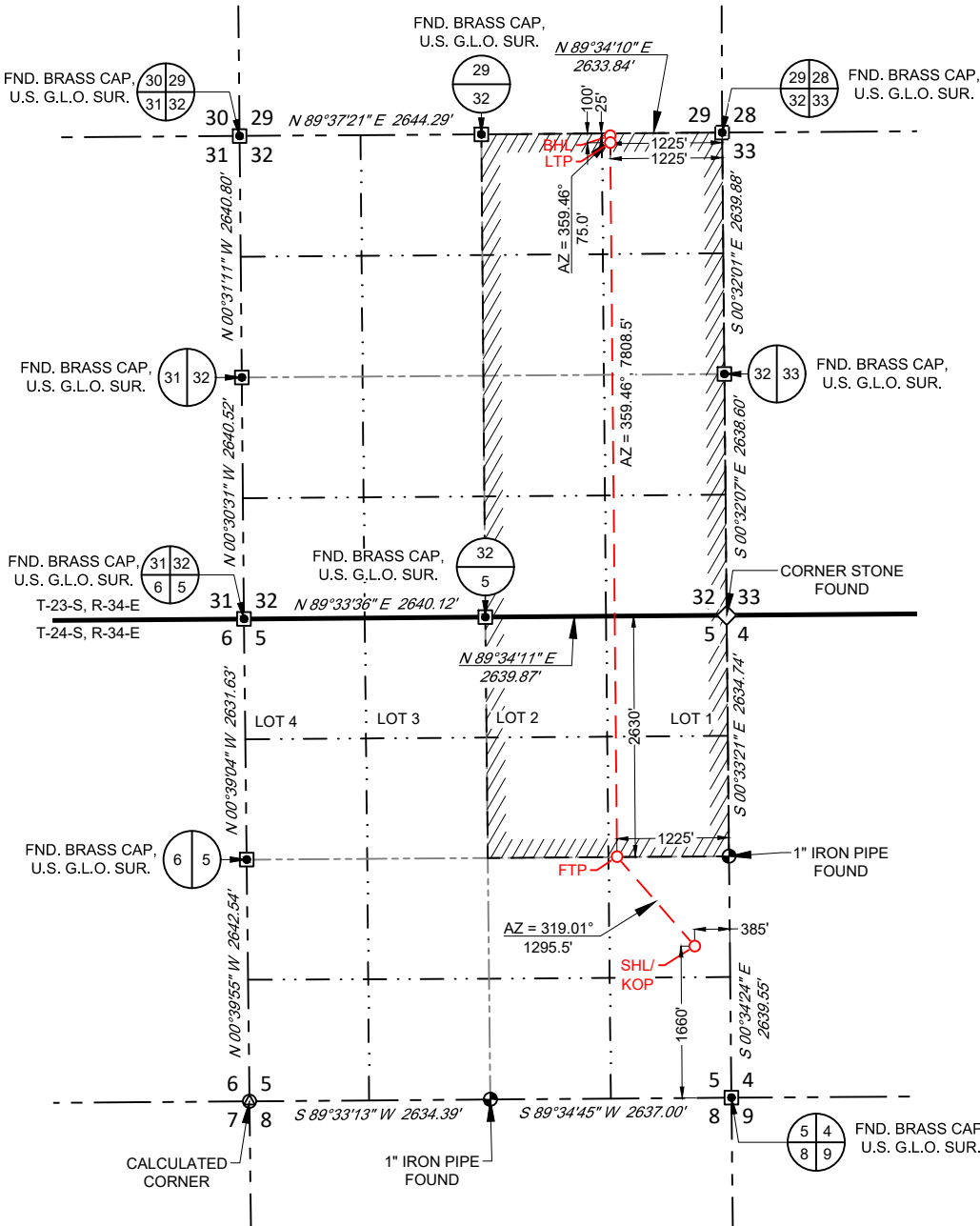
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KAISER-FRANCIS OIL COMPANY

EXHIBIT 2A

SECTION 5, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)
KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=803703 Y=453500
LAT.: N 32.2438980
LONG.: W 103.4847196
1660' FSL 385' FEL

FIRST TAKE POINT (FTP)

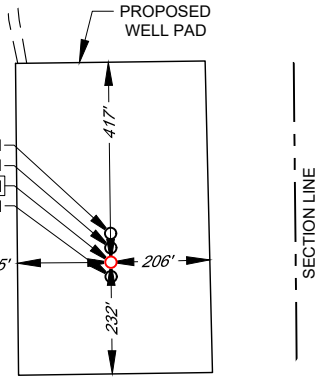
NEW MEXICO EAST
NAD 1983
X=802853 Y=454478
LAT.: N 32.2466042
LONG.: W 103.4874432
2630' FNL 1225' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=802779 Y=462286
LAT.: N 32.2680671
LONG.: W 103.4874829
100' FNL 1225' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=802779 Y=462361
LAT.: N 32.2682732
LONG.: W 103.4874833
25' FNL 1225' FEL

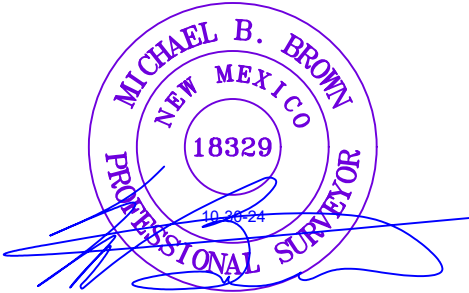


DETAIL VIEW
SCALE: 1" = 400'

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH 635H

SECTION 5 TWP 24-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 1660' FSL & 385' FEL

DISTANCE & DIRECTION
FROM INT. OF NM-128 AND NM-18. GO WEST ON NM-128 ±19 MI. THENCE
NORTH (RIGHT) ON A LEASE RD. ±2.84 MI TO A POINT ±5025 FEET
NORTHWEST OF THE LOCATION



Michael B. Brown, P.S. No. 18329

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY
FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. THIS CERTIFICATION IS MADE AND
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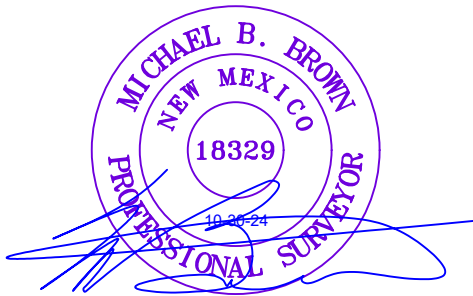
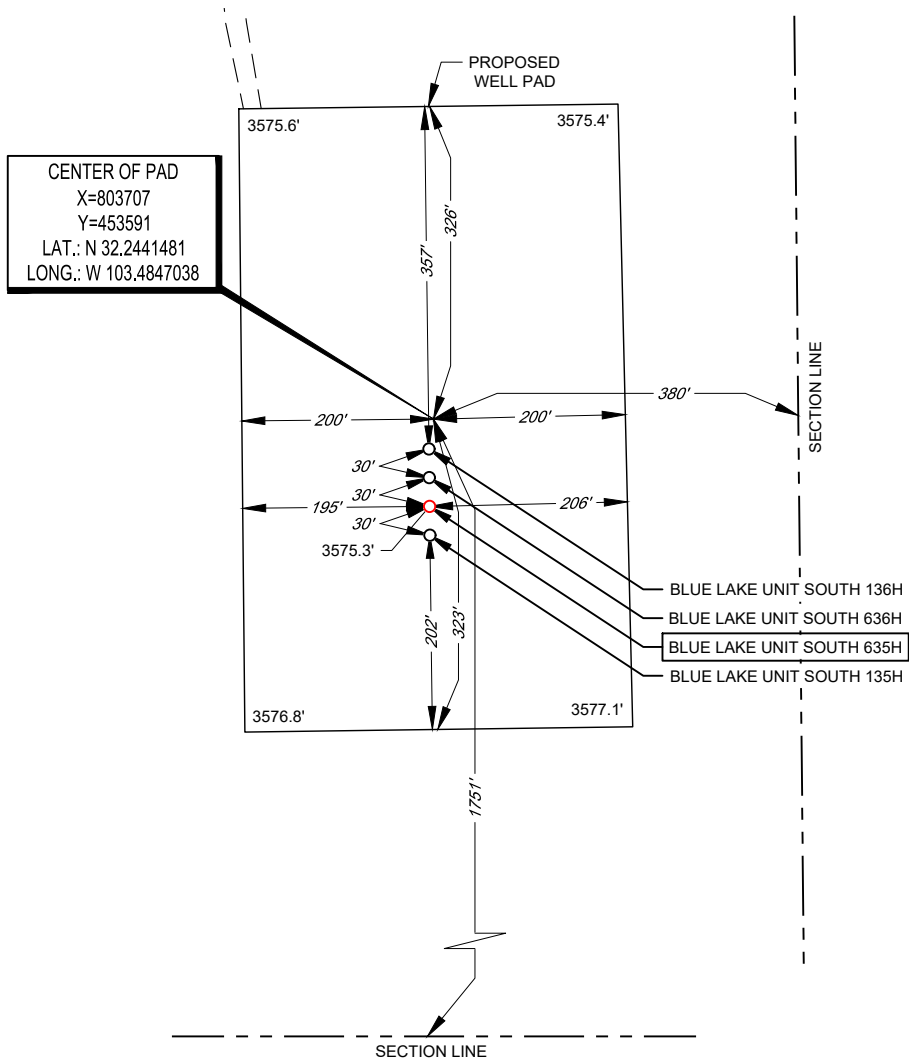
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KAISER-FRANCIS OIL COMPANY

SECTION 5, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICODETAIL VIEW
SCALE: 1" = 200'

LEGEND

--- SECTION LINE
== == == ROAD WAY



Michael B. Brown, P.S. No. 18329

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH 635H
635H LATITUDE N 32.2438980 635H LONGITUDE W 103.4847196

CENTER OF PAD IS 1751' FSL & 380' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

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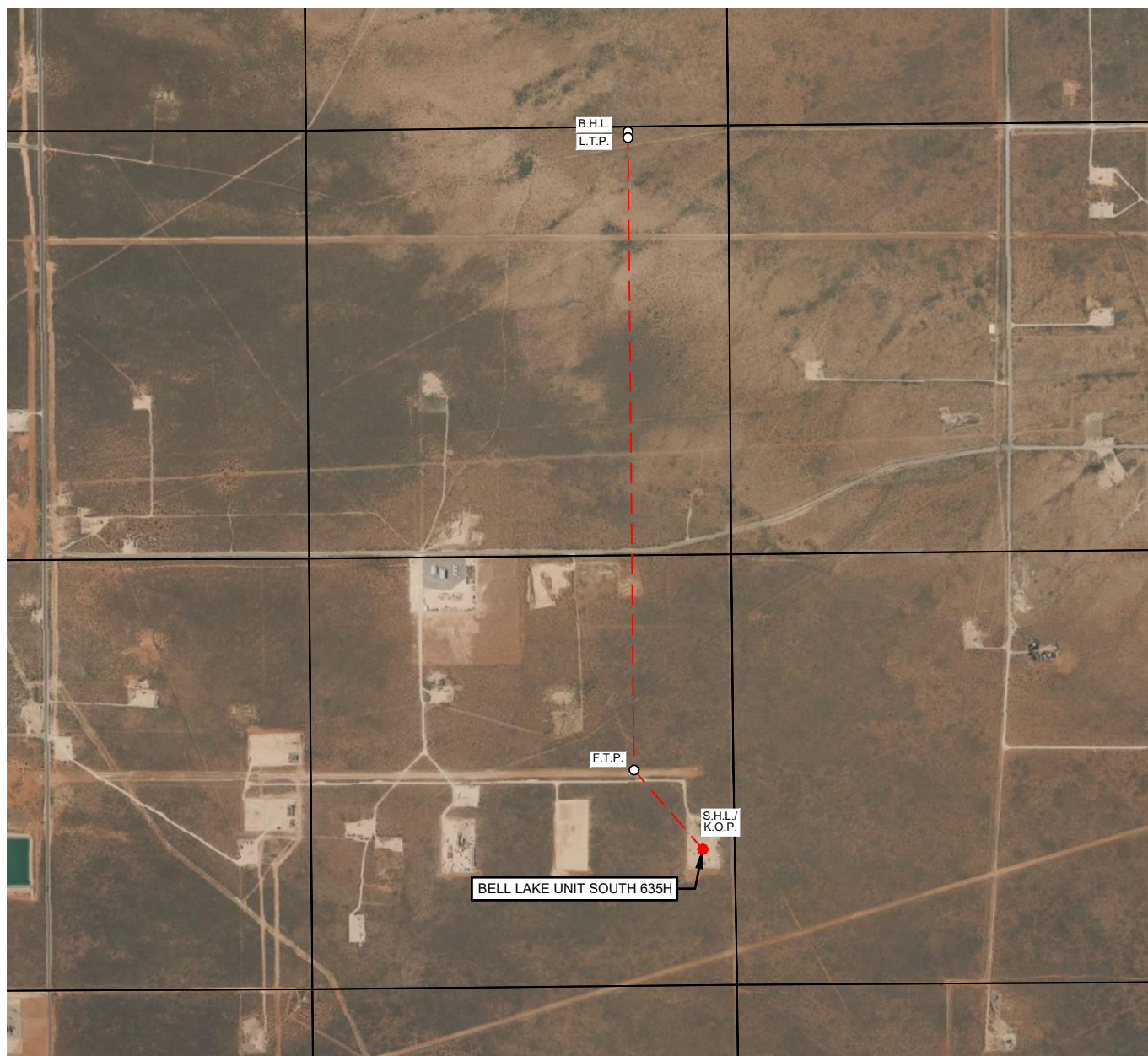
SCALE: 1" = 200'
0' 100' 200'



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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

AERIAL PHOTO



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT SOUTH 635H
 SECTION 5 TWP 24-S RGE 34-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3575'
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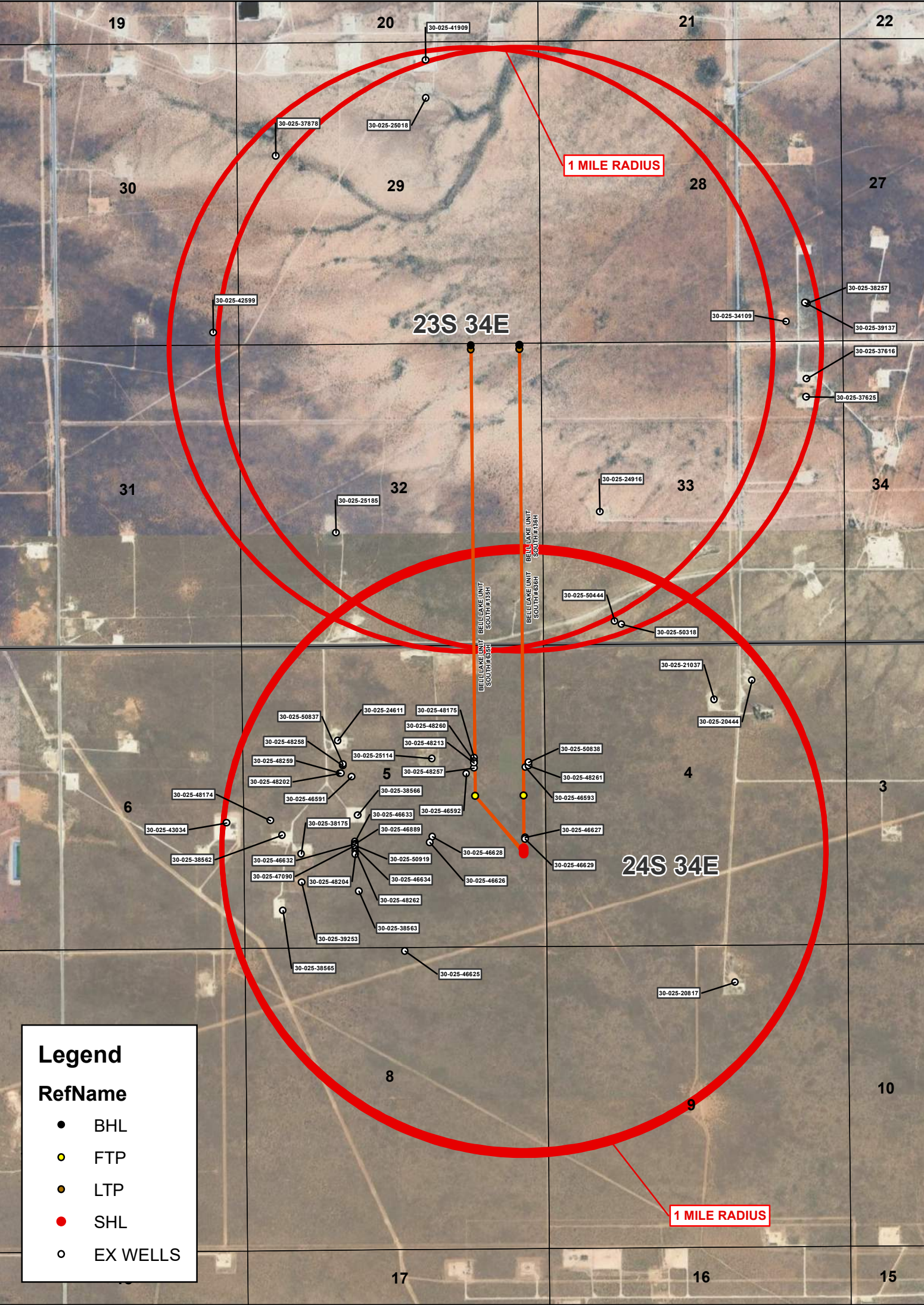
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EXHIBIT 3

SBL PAD 17
KAISER-FRANCIS OIL COMPANY
SECTION 5, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



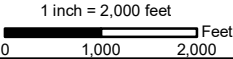
Legend

RefName

- BHL
- FTP
- LTP
- SHL
- EX WELLS

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THE EASEMENT SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. THIS CERTIFICATION IS MADE AND
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481 WINSOTT RD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

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

Form APD Conditions

Permit 379203

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: KAISER-FRANCIS OIL CO [12361] PO Box 21468 Tulsa, OK 741211468	API Number: 30-025-54334
	Well: BELL LAKE UNIT SOUTH #635H

OCD Reviewer	Condition
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.
matthew.gomez	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.
matthew.gomez	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.
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.
matthew.gomez	Administrative order required for non-standard location prior to production.



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 83

SEC 8-T24S-R34E

Bell Lake Unit South #635H

Wellbore #1

Plan: Plan 2

Standard Planning Report

15 October, 2024

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit South #635H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Project	LEA COUNTY, N.M. 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SEC 8-T24S-R34E				
Site Position:		Northing:	446,990.00 usft	Latitude:	32.22603069
From:	Map	Easting:	802,472.00 usft	Longitude:	-103.48886658
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Bell Lake Unit South #635H					
Well Position	+N/-S	0.00 usft	Northing:	453,528.04 usft	Latitude:	32.24397456
	+E/-W	0.00 usft	Easting:	803,699.77 usft	Longitude:	-103.48472952
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,602.00 usft
Grid Convergence:		0.45 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM CURRENT	10/11/2024	6.22	59.81	47,321.90000000

Design	Plan 2				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	354.00	

Plan Survey Tool Program	Date	10/15/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,970.86 Plan 2 (Wellbore #1)	MWD+HRGM		
			OWSG MWD + HRGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,097.06	17.94	303.21	5,082.47	76.30	-116.55	2.00	2.00	0.00	303.21	
7,499.96	17.94	303.21	7,368.53	481.72	-735.84	0.00	0.00	0.00	0.00	
8,397.02	0.00	0.00	8,251.00	558.02	-852.39	2.00	-2.00	0.00	180.00	
8,536.76	0.00	0.00	8,390.74	558.02	-852.39	0.00	0.00	0.00	0.00	
9,179.62	90.00	359.52	8,800.00	967.26	-855.82	14.00	14.00	-0.07	359.52	
16,971.10	90.00	359.52	8,800.00	8,758.46	-921.11	0.00	0.00	0.00	0.00	BLUS 635H LTP(100'



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit South #635H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
4,300.00	2.00	303.21	4,299.98	0.96	-1.46	1.10	2.00	2.00	0.00
4,400.00	4.00	303.21	4,399.84	3.82	-5.84	4.41	2.00	2.00	0.00
4,500.00	6.00	303.21	4,499.45	8.60	-13.13	9.92	2.00	2.00	0.00
4,600.00	8.00	303.21	4,598.70	15.27	-23.33	17.63	2.00	2.00	0.00
4,700.00	10.00	303.21	4,697.47	23.84	-36.41	27.52	2.00	2.00	0.00
4,800.00	12.00	303.21	4,795.62	34.29	-52.38	39.58	2.00	2.00	0.00
4,900.00	14.00	303.21	4,893.06	46.61	-71.20	53.80	2.00	2.00	0.00
5,000.00	16.00	303.21	4,989.64	60.78	-92.85	70.16	2.00	2.00	0.00
5,097.06	17.94	303.21	5,082.47	76.30	-116.55	88.07	2.00	2.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit South #635H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 2402.91 hold at 5097.06 MD									
5,100.00	17.94	303.21	5,085.27	76.80	-117.31	88.65	0.00	0.00	0.00
5,200.00	17.94	303.21	5,180.41	93.67	-143.08	108.12	0.00	0.00	0.00
5,300.00	17.94	303.21	5,275.54	110.54	-168.85	127.60	0.00	0.00	0.00
5,400.00	17.94	303.21	5,370.68	127.41	-194.63	147.07	0.00	0.00	0.00
5,500.00	17.94	303.21	5,465.82	144.29	-220.40	166.55	0.00	0.00	0.00
5,600.00	17.94	303.21	5,560.96	161.16	-246.17	186.02	0.00	0.00	0.00
5,700.00	17.94	303.21	5,656.09	178.03	-271.94	205.50	0.00	0.00	0.00
5,800.00	17.94	303.21	5,751.23	194.90	-297.72	224.97	0.00	0.00	0.00
5,900.00	17.94	303.21	5,846.37	211.77	-323.49	244.45	0.00	0.00	0.00
6,000.00	17.94	303.21	5,941.51	228.65	-349.26	263.92	0.00	0.00	0.00
6,100.00	17.94	303.21	6,036.64	245.52	-375.03	283.40	0.00	0.00	0.00
6,200.00	17.94	303.21	6,131.78	262.39	-400.81	302.87	0.00	0.00	0.00
6,300.00	17.94	303.21	6,226.92	279.26	-426.58	322.35	0.00	0.00	0.00
6,400.00	17.94	303.21	6,322.05	296.13	-452.35	341.82	0.00	0.00	0.00
6,500.00	17.94	303.21	6,417.19	313.01	-478.12	361.30	0.00	0.00	0.00
6,600.00	17.94	303.21	6,512.33	329.88	-503.90	380.77	0.00	0.00	0.00
6,700.00	17.94	303.21	6,607.47	346.75	-529.67	400.25	0.00	0.00	0.00
6,800.00	17.94	303.21	6,702.60	363.62	-555.44	419.72	0.00	0.00	0.00
6,900.00	17.94	303.21	6,797.74	380.49	-581.21	439.20	0.00	0.00	0.00
7,000.00	17.94	303.21	6,892.88	397.37	-606.99	458.67	0.00	0.00	0.00
7,100.00	17.94	303.21	6,988.02	414.24	-632.76	478.15	0.00	0.00	0.00
7,200.00	17.94	303.21	7,083.15	431.11	-658.53	497.62	0.00	0.00	0.00
7,300.00	17.94	303.21	7,178.29	447.98	-684.30	517.10	0.00	0.00	0.00
7,400.00	17.94	303.21	7,273.43	464.85	-710.08	536.57	0.00	0.00	0.00
7,499.96	17.94	303.21	7,368.53	481.72	-735.84	556.04	0.00	0.00	0.00
Start Drop -2.00									
7,600.00	15.94	303.21	7,464.22	497.68	-760.23	574.47	2.00	-2.00	0.00
7,700.00	13.94	303.21	7,560.84	511.80	-781.79	590.77	2.00	-2.00	0.00
7,800.00	11.94	303.21	7,658.29	524.07	-800.53	604.92	2.00	-2.00	0.00
7,900.00	9.94	303.21	7,756.47	534.46	-816.41	616.92	2.00	-2.00	0.00
8,000.00	7.94	303.21	7,855.25	542.98	-829.41	626.75	2.00	-2.00	0.00
8,100.00	5.94	303.21	7,954.51	549.59	-839.52	634.39	2.00	-2.00	0.00
8,200.00	3.94	303.21	8,054.13	554.31	-846.72	639.83	2.00	-2.00	0.00
8,300.00	1.94	303.21	8,154.00	557.12	-851.02	643.07	2.00	-2.00	0.00
8,397.02	0.00	0.00	8,251.00	558.02	-852.39	644.11	2.00	-2.00	0.00
Start 139.74 hold at 8397.02 MD									
8,400.00	0.00	0.00	8,253.98	558.02	-852.39	644.11	0.00	0.00	0.00
8,500.00	0.00	0.00	8,353.98	558.02	-852.39	644.11	0.00	0.00	0.00
8,536.76	0.00	0.00	8,390.74	558.02	-852.39	644.11	0.00	0.00	0.00
Start DLS 14.00 TFO 359.52									
8,550.00	1.85	359.52	8,403.98	558.23	-852.39	644.32	14.00	14.00	0.00
8,575.00	5.35	359.52	8,428.92	559.81	-852.40	645.89	14.00	14.00	0.00
8,600.00	8.85	359.52	8,453.73	562.90	-852.43	648.97	14.00	14.00	0.00
8,625.00	12.35	359.52	8,478.30	567.50	-852.47	653.54	14.00	14.00	0.00
8,650.00	15.85	359.52	8,502.54	573.59	-852.52	659.61	14.00	14.00	0.00
8,675.00	19.35	359.52	8,526.37	581.15	-852.58	667.13	14.00	14.00	0.00
8,700.00	22.85	359.52	8,549.68	590.14	-852.66	676.09	14.00	14.00	0.00
8,725.00	26.35	359.52	8,572.41	600.55	-852.75	686.45	14.00	14.00	0.00
8,750.00	29.85	359.52	8,594.46	612.33	-852.85	698.17	14.00	14.00	0.00
8,775.00	33.35	359.52	8,615.75	625.42	-852.95	711.21	14.00	14.00	0.00
8,800.00	36.85	359.52	8,636.20	639.80	-853.08	725.51	14.00	14.00	0.00
8,825.00	40.35	359.52	8,655.73	655.39	-853.21	741.04	14.00	14.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit South #635H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,850.00	43.85	359.52	8,674.28	672.15	-853.35	757.72	14.00	14.00	0.00	
8,875.00	47.35	359.52	8,691.77	690.01	-853.50	775.49	14.00	14.00	0.00	
8,900.00	50.85	359.52	8,708.13	708.90	-853.65	794.30	14.00	14.00	0.00	
8,925.00	54.35	359.52	8,723.31	728.76	-853.82	814.07	14.00	14.00	0.00	
8,950.00	57.85	359.52	8,737.25	749.51	-853.99	834.72	14.00	14.00	0.00	
8,975.00	61.35	359.52	8,749.90	771.07	-854.18	856.18	14.00	14.00	0.00	
9,000.00	64.85	359.52	8,761.21	793.36	-854.36	878.37	14.00	14.00	0.00	
9,025.00	68.35	359.52	8,771.13	816.30	-854.55	901.20	14.00	14.00	0.00	
9,050.00	71.85	359.52	8,779.64	839.80	-854.75	924.60	14.00	14.00	0.00	
9,075.00	75.35	359.52	8,786.70	863.78	-854.95	948.46	14.00	14.00	0.00	
9,100.00	78.85	359.52	8,792.28	888.15	-855.16	972.72	14.00	14.00	0.00	
9,125.00	82.35	359.52	8,796.36	912.81	-855.36	997.26	14.00	14.00	0.00	
9,150.00	85.85	359.52	8,798.92	937.67	-855.57	1,022.01	14.00	14.00	0.00	
9,175.00	89.35	359.52	8,799.97	962.64	-855.78	1,046.87	14.00	14.00	0.00	
9,179.62	90.00	359.52	8,800.00	967.26	-855.82	1,051.47	14.00	14.00	0.00	
Start 7791.48 hold at 9179.62 MD										
9,200.00	90.00	359.52	8,800.00	987.64	-855.99	1,071.75	0.00	0.00	0.00	
9,300.00	90.00	359.52	8,800.00	1,087.64	-856.83	1,171.29	0.00	0.00	0.00	
9,400.00	90.00	359.52	8,800.00	1,187.64	-857.67	1,270.83	0.00	0.00	0.00	
9,500.00	90.00	359.52	8,800.00	1,287.63	-858.50	1,370.36	0.00	0.00	0.00	
9,600.00	90.00	359.52	8,800.00	1,387.63	-859.34	1,469.90	0.00	0.00	0.00	
9,700.00	90.00	359.52	8,800.00	1,487.62	-860.18	1,569.43	0.00	0.00	0.00	
9,800.00	90.00	359.52	8,800.00	1,587.62	-861.02	1,668.97	0.00	0.00	0.00	
9,900.00	90.00	359.52	8,800.00	1,687.62	-861.86	1,768.50	0.00	0.00	0.00	
10,000.00	90.00	359.52	8,800.00	1,787.61	-862.69	1,868.04	0.00	0.00	0.00	
10,100.00	90.00	359.52	8,800.00	1,887.61	-863.53	1,967.58	0.00	0.00	0.00	
10,200.00	90.00	359.52	8,800.00	1,987.61	-864.37	2,067.11	0.00	0.00	0.00	
10,300.00	90.00	359.52	8,800.00	2,087.60	-865.21	2,166.65	0.00	0.00	0.00	
10,400.00	90.00	359.52	8,800.00	2,187.60	-866.05	2,266.18	0.00	0.00	0.00	
10,500.00	90.00	359.52	8,800.00	2,287.60	-866.88	2,365.72	0.00	0.00	0.00	
10,600.00	90.00	359.52	8,800.00	2,387.59	-867.72	2,465.25	0.00	0.00	0.00	
10,700.00	90.00	359.52	8,800.00	2,487.59	-868.56	2,564.79	0.00	0.00	0.00	
10,800.00	90.00	359.52	8,800.00	2,587.59	-869.40	2,664.33	0.00	0.00	0.00	
10,900.00	90.00	359.52	8,800.00	2,687.58	-870.24	2,763.86	0.00	0.00	0.00	
11,000.00	90.00	359.52	8,800.00	2,787.58	-871.07	2,863.40	0.00	0.00	0.00	
11,100.00	90.00	359.52	8,800.00	2,887.58	-871.91	2,962.93	0.00	0.00	0.00	
11,200.00	90.00	359.52	8,800.00	2,987.57	-872.75	3,062.47	0.00	0.00	0.00	
11,300.00	90.00	359.52	8,800.00	3,087.57	-873.59	3,162.00	0.00	0.00	0.00	
11,400.00	90.00	359.52	8,800.00	3,187.57	-874.42	3,261.54	0.00	0.00	0.00	
11,500.00	90.00	359.52	8,800.00	3,287.56	-875.26	3,361.07	0.00	0.00	0.00	
11,600.00	90.00	359.52	8,800.00	3,387.56	-876.10	3,460.61	0.00	0.00	0.00	
11,700.00	90.00	359.52	8,800.00	3,487.55	-876.94	3,560.15	0.00	0.00	0.00	
11,800.00	90.00	359.52	8,800.00	3,587.55	-877.78	3,659.68	0.00	0.00	0.00	
11,900.00	90.00	359.52	8,800.00	3,687.55	-878.61	3,759.22	0.00	0.00	0.00	
12,000.00	90.00	359.52	8,800.00	3,787.54	-879.45	3,858.75	0.00	0.00	0.00	
12,100.00	90.00	359.52	8,800.00	3,887.54	-880.29	3,958.29	0.00	0.00	0.00	
12,200.00	90.00	359.52	8,800.00	3,987.54	-881.13	4,057.82	0.00	0.00	0.00	
12,300.00	90.00	359.52	8,800.00	4,087.53	-881.97	4,157.36	0.00	0.00	0.00	
12,400.00	90.00	359.52	8,800.00	4,187.53	-882.80	4,256.90	0.00	0.00	0.00	
12,500.00	90.00	359.52	8,800.00	4,287.53	-883.64	4,356.43	0.00	0.00	0.00	
12,600.00	90.00	359.52	8,800.00	4,387.52	-884.48	4,455.97	0.00	0.00	0.00	
12,700.00	90.00	359.52	8,800.00	4,487.52	-885.32	4,555.50	0.00	0.00	0.00	
12,800.00	90.00	359.52	8,800.00	4,587.52	-886.16	4,655.04	0.00	0.00	0.00	
12,900.00	90.00	359.52	8,800.00	4,687.51	-886.99	4,754.57	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,000.00	90.00	359.52	8,800.00	4,787.51	-887.83	4,854.11	0.00	0.00	0.00	
13,100.00	90.00	359.52	8,800.00	4,887.51	-888.67	4,953.65	0.00	0.00	0.00	
13,200.00	90.00	359.52	8,800.00	4,987.50	-889.51	5,053.18	0.00	0.00	0.00	
13,300.00	90.00	359.52	8,800.00	5,087.50	-890.35	5,152.72	0.00	0.00	0.00	
13,400.00	90.00	359.52	8,800.00	5,187.49	-891.18	5,252.25	0.00	0.00	0.00	
13,500.00	90.00	359.52	8,800.00	5,287.49	-892.02	5,351.79	0.00	0.00	0.00	
13,600.00	90.00	359.52	8,800.00	5,387.49	-892.86	5,451.32	0.00	0.00	0.00	
13,700.00	90.00	359.52	8,800.00	5,487.48	-893.70	5,550.86	0.00	0.00	0.00	
13,800.00	90.00	359.52	8,800.00	5,587.48	-894.54	5,650.40	0.00	0.00	0.00	
13,900.00	90.00	359.52	8,800.00	5,687.48	-895.37	5,749.93	0.00	0.00	0.00	
14,000.00	90.00	359.52	8,800.00	5,787.47	-896.21	5,849.47	0.00	0.00	0.00	
14,100.00	90.00	359.52	8,800.00	5,887.47	-897.05	5,949.00	0.00	0.00	0.00	
14,200.00	90.00	359.52	8,800.00	5,987.47	-897.89	6,048.54	0.00	0.00	0.00	
14,300.00	90.00	359.52	8,800.00	6,087.46	-898.73	6,148.07	0.00	0.00	0.00	
14,400.00	90.00	359.52	8,800.00	6,187.46	-899.56	6,247.61	0.00	0.00	0.00	
14,500.00	90.00	359.52	8,800.00	6,287.46	-900.40	6,347.15	0.00	0.00	0.00	
14,600.00	90.00	359.52	8,800.00	6,387.45	-901.24	6,446.68	0.00	0.00	0.00	
14,700.00	90.00	359.52	8,800.00	6,487.45	-902.08	6,546.22	0.00	0.00	0.00	
14,800.00	90.00	359.52	8,800.00	6,587.45	-902.91	6,645.75	0.00	0.00	0.00	
14,900.00	90.00	359.52	8,800.00	6,687.44	-903.75	6,745.29	0.00	0.00	0.00	
15,000.00	90.00	359.52	8,800.00	6,787.44	-904.59	6,844.82	0.00	0.00	0.00	
15,100.00	90.00	359.52	8,800.00	6,887.44	-905.43	6,944.36	0.00	0.00	0.00	
15,200.00	90.00	359.52	8,800.00	6,987.43	-906.27	7,043.90	0.00	0.00	0.00	
15,300.00	90.00	359.52	8,800.00	7,087.43	-907.10	7,143.43	0.00	0.00	0.00	
15,400.00	90.00	359.52	8,800.00	7,187.42	-907.94	7,242.97	0.00	0.00	0.00	
15,500.00	90.00	359.52	8,800.00	7,287.42	-908.78	7,342.50	0.00	0.00	0.00	
15,600.00	90.00	359.52	8,800.00	7,387.42	-909.62	7,442.04	0.00	0.00	0.00	
15,700.00	90.00	359.52	8,800.00	7,487.41	-910.46	7,541.57	0.00	0.00	0.00	
15,800.00	90.00	359.52	8,800.00	7,587.41	-911.29	7,641.11	0.00	0.00	0.00	
15,900.00	90.00	359.52	8,800.00	7,687.41	-912.13	7,740.65	0.00	0.00	0.00	
16,000.00	90.00	359.52	8,800.00	7,787.40	-912.97	7,840.18	0.00	0.00	0.00	
16,100.00	90.00	359.52	8,800.00	7,887.40	-913.81	7,939.72	0.00	0.00	0.00	
16,200.00	90.00	359.52	8,800.00	7,987.40	-914.65	8,039.25	0.00	0.00	0.00	
16,300.00	90.00	359.52	8,800.00	8,087.39	-915.48	8,138.79	0.00	0.00	0.00	
16,400.00	90.00	359.52	8,800.00	8,187.39	-916.32	8,238.32	0.00	0.00	0.00	
16,500.00	90.00	359.52	8,800.00	8,287.39	-917.16	8,337.86	0.00	0.00	0.00	
16,600.00	90.00	359.52	8,800.00	8,387.38	-918.00	8,437.39	0.00	0.00	0.00	
16,700.00	90.00	359.52	8,800.00	8,487.38	-918.84	8,536.93	0.00	0.00	0.00	
16,800.00	90.00	359.52	8,800.00	8,587.38	-919.67	8,636.47	0.00	0.00	0.00	
16,900.00	90.00	359.52	8,800.00	8,687.37	-920.51	8,736.00	0.00	0.00	0.00	
16,971.10	90.00	359.52	8,800.00	8,758.46	-921.11	8,806.77	0.00	0.00	0.00	
TD at 16971.10										



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit South #635H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	Est 30' RKB @ 3632.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	Est 30' RKB @ 3632.00usft
Site:	SEC 8-T24S-R34E	North Reference:	Grid
Well:	Bell Lake Unit South #635H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 2		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLUS 635H LTP(100' F) - plan hits target center - Point	0.00	0.00	8,800.00	8,758.46	-921.11	462,286.51	802,778.66	32.26806798	-103.48748534
BLUS 635H FTP(2630' F) - plan hits target center - Point	0.00	0.00	8,800.00	967.26	-855.82	454,495.30	802,843.95	32.24665173	-103.48747275

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
16,971.10	8,800.00	20" Casing	20	24

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,200.00	4,200.00	0.00	0.00	Start Build 2.00
5,097.06	5,082.47	76.30	-116.55	Start 2402.91 hold at 5097.06 MD
7,499.96	7,368.53	481.72	-735.84	Start Drop -2.00
8,397.02	8,251.00	558.02	-852.39	Start 139.74 hold at 8397.02 MD
8,536.76	8,390.74	558.02	-852.39	Start DLS 14.00 TFO 359.52
9,179.62	8,800.00	967.26	-855.82	Start 7791.48 hold at 9179.62 MD
16,971.10	8,800.00	8,758.46	-921.11	TD at 16971.10

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

**BLUS 135H, 136H, 635H, 636H
SECTION 5 -T24S-R34E
LEA COUNTY, NM**

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

TABLE OF CONTENTS

Emergency Response Activation and General Responsibilities 3

Individual Responsibilities During An H₂S Release 4

Procedure For Igniting An Uncontrollable Condition 5

Emergency Phone Numbers 6

Protection Of The General Public/Roe 7

Characteristics Of H₂S And SO₂ 8

Training 8

Public Relations 8

Maps

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES**Activation of the Emergency Action Plan**

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

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

General Responsibilities

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

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

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

INDIVIDUAL RESPONSIBILITIES DURING AN H₂S RELEASE

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

All Personnel:

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

Rig Manager/Tool Pusher:

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

Two People Responsible for Shut-in and Rescue:

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

All Other Personnel:

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

Kaiser-Francis Oil Company Representative:

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

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

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

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

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

INSTRUCTIONS FOR IGNITION:

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

CONTACTING AUTHORITIES

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

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

	<u>OFFICE</u>	<u>MOBILE</u>
Kaiser-Francis Oil Co.	918/494-0000	
Jeremy Parent	575-964-6256	580-504-2593
David Zerger	918/491-4350	918/557-6708
Aaron Daniels	918-491-4352	918-891-5199
Robert Sanford	918/491-4201	918/770-2682

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
Cudd	800-990-2833
Wild Well Control	281-784-4700

PROTECTION OF THE GENERAL PUBLIC/ROE:

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

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

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

Calculation for the 100 ppm ROE:

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

(H₂S concentrations in decimal form)
 10,000 ppm $\div$ 1000 = 10
 1,000 ppm $\div$ 100 = 10
 100 ppm $\div$ 10 = 10
 10 ppm $\div$ 1 = 10

Calculation for the 500 ppm ROE:

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

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

ROE for 100 PPM $X = [(1.589)(.0150)(200)]^{(0.6258)}$

$$X = 2.65'$$

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

$$X = 1.2'$$

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

PUBLIC EVACUATION PLAN:

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

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

CHARACTERISTICS OF H₂S AND SO₂

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

TRAINING:

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

PUBLIC RELATIONS

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

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

All contract and Kaiser-Francis employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

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:** 12 /06 /2024

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.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bell Lake South Pad 17	R wells listed	on next page.				

IV. Central Delivery Point Name: pad site [See 19.15.27.9(D)(1) NMAC]

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.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bell Lake South Pad 17	R anticipated schedule listed	on next page.				

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ 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: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

III. Wells

Well Name	Well Location (ULSTR)	Footages	Expected Oil BBLs/D	Expected Gas MCF/D	Expected Water BBLs/D	Flared or Vented
Bell Lake Unit South 136H	Sec 5 24S 34E	385' FEL 1720' FSL	800	1500	400	0
Bell Lake Unit South 636H	Sec 5 24S 34E	385' FEL 1690' FSL	800	1500	400	0
Bell Lake Unit South 635H	Sec 5 24S 34E	385' FEL 1660' FSL	800	1500	400	0
Bell Lake Unit South 135H	Sec 5 24S 34E	385' FEL 1630' FSL	800	1500	400	0

V. Anticipated Schedule

Well Name	Spud	TD	Completion	Initial Flow Back	First Production
Bell Lake Unit South 136H	4/1/2025	4/16/2025	6/15/2025	7/6/2025	7/7/2025
Bell Lake Unit South 636H	4/18/2025	5/3/2025	6/15/2025	7/6/2025	7/7/2025
Bell Lake Unit South 635H	5/5/2025	5/20/2025	6/15/2025	7/6/2025	7/7/2025
Bell Lake Unit South 135H	5/22/2025	6/6/2025	6/15/2025	7/6/2025	7/7/2025

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 ☐ will ☐ 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 ☐ does ☐ 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: ☐ 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.

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

☐ 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.

Signature:	Christina Opfer
Printed Name:	Christina Opfer
Title:	Regulatory Manager
E-mail Address:	ChristinaO@kfoc.net
Date:	12/6/2024
Phone:	918-491-4468
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	