

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 367763

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 74121146		2. OGRID Number 12361
		3. API Number 30-025-53212
4. Property Code 316707	5. Property Name BELL LAKE UNIT NORTH	6. Well No. 820H

7. Surface Location

UL - Lot D	Section 36	Township 22S	Range 33E	Lot Idn D	Feet From 273	N/S Line N	Feet From 1103	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 36	Township 23S	Range 33E	Lot Idn M	Feet From 50	N/S Line S	Feet From 800	E/W Line W	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING, SOUTHWEST	98259
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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 3466
16. Multiple N	17. Proposed Depth 16800	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 10/15/2024
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	840	0
Int1	12.25	10.75	45.5	4700	700	0
Int2	9.875	7.625	29.7	11100	490	4000
Prod	6.75	5.5	23	16800	640	4000

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	7500	Cameron
Blind	10000	7500	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.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Christina Opfer	Approved By:	Paul F Kautz
Title:		Title:	Geologist
Email Address:	christinaO@kfoc.net	Approved Date:	7/18/2024
Date:	7/10/2024	Phone:	918-491-4468
		Expiration Date:	7/18/2026
		Conditions of Approval Attached	

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 98259	³ Pool Name Ojo Chiso; Bone Spring, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	⁶ Well Number 820H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3466'

¹⁰Surface Location

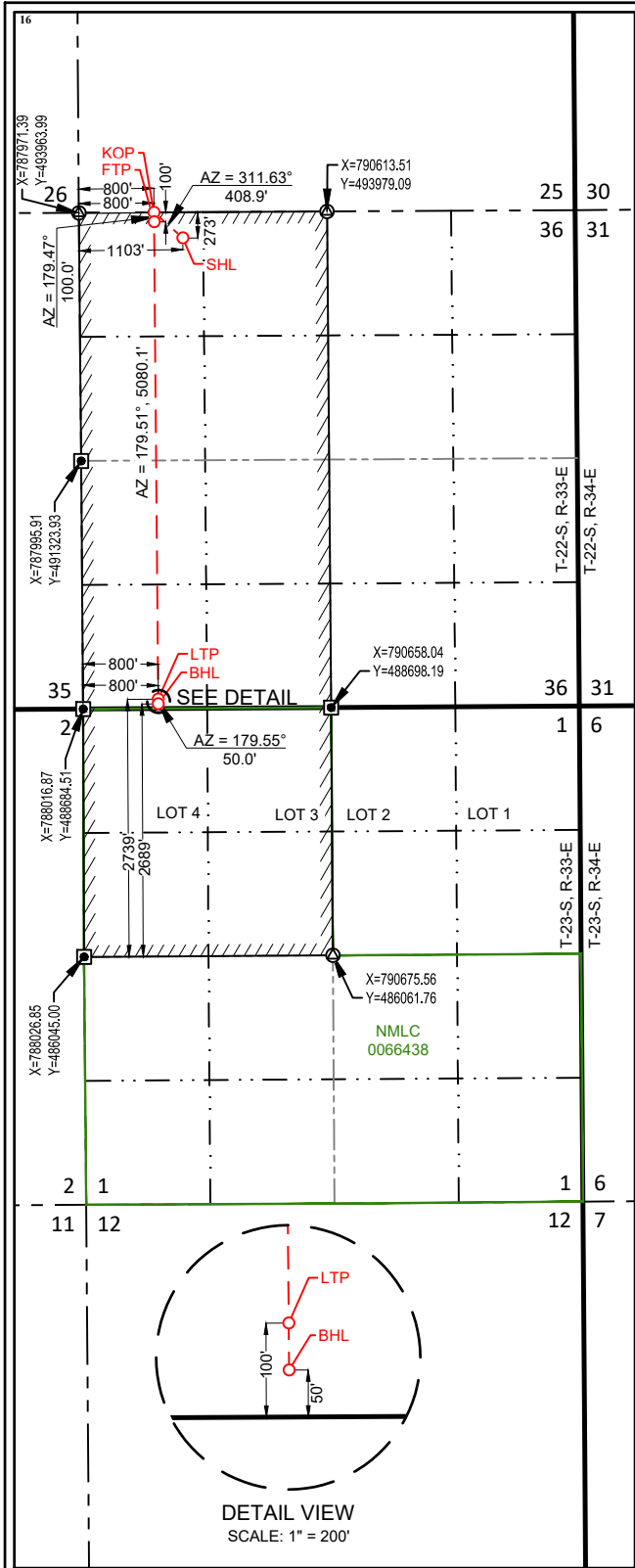
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	22-S	33-E	-	273'	NORTH	1103'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	23-S	33-E	-	50'	SOUTH	800'	WEST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)

273' FNL - SEC. 36
1103' FWL - SEC. 36
X=789077 Y=493697
LAT.: N 32.3546916
LONG.: W 103.5310503

KICK OFF POINT (KOP)

±0' FNL - SEC. 36
800' FWL - SEC. 36
X=788771 Y=493969
LAT.: N 32.3554446
LONG.: W 103.5320333

FIRST TAKE POINT (FTP)

100' FNL - SEC. 36
800' FWL - SEC. 36
X=788772 Y=493869
LAT.: N 32.3551697
LONG.: W 103.5320327

LAST TAKE POINT (LTP)

100' FSL - SEC. 36
800' FWL - SEC. 36
X=788816 Y=488789
LAT.: N 32.3412063
LONG.: W 103.5320142

BOTTOM HOLE LOCATION (BHL)

50' FSL - SEC. 36
800' FWL - SEC. 36
X=788816 Y=488739
LAT.: N 32.3410688
LONG.: W 103.5320141

¹⁷OPERATOR CERTIFICATION

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

Curt Jones 7/8/2024

Signature Date

Curt Jones

Printed Name

curtj@kfoc.net

E-mail Address

¹⁸SURVEYOR CERTIFICATION

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

08/30/2023

Date of Survey

Signature and Seal of Professional Surveyor

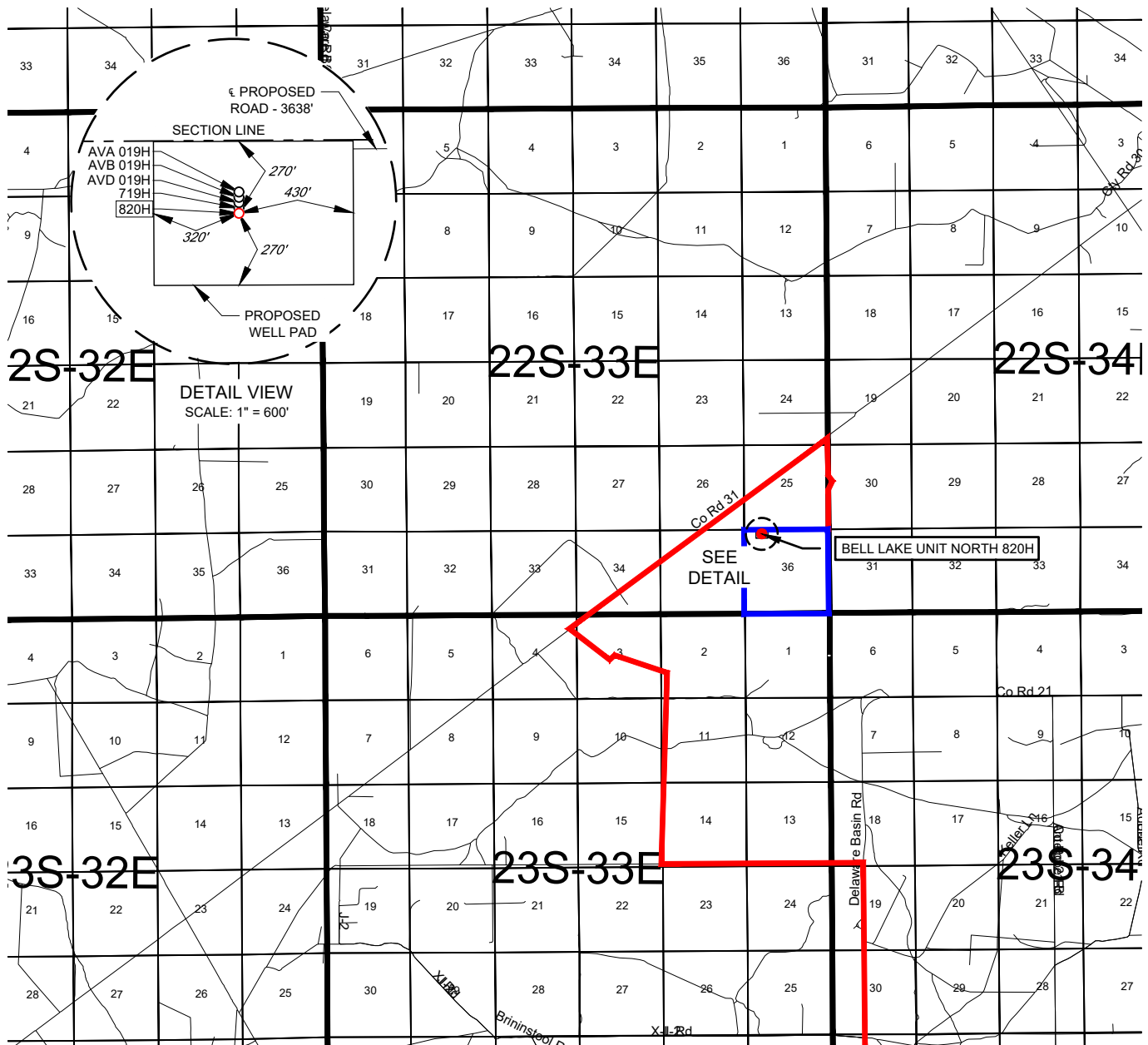
STAN W. LLOYD
NEW MEXICO
19642
07-03-24
PROFESSIONAL SURVEYOR

Stan W. Lloyd

Certificate Number



Released to Imaging: 7/18/2024 1:12:29 PM C:\NRI\Kaiser_Francis\Bell Lake Unit North 36-22S-33E PAD\FINAL_PRODUCTS\LO_BELL_LAKE_UNIT_NORTH_820H_REV2.DWG 7/3/2024 4:58:58 PM shane.boyd

EXHIBIT 2
VICINITY MAP

KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT NORTH 820HSECTION 36 TWP 22-S RGE 33-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 273' FNL & 1103' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-128 AND NM-18, GO WEST ON NM-128 ± 20.4 MI. THENCE NORTH (RIGHT) ON DELAWARE BASIN RD. ± 6.0 MI. THENCE WEST (LEFT) ON A LEASE RD. ± 2.4 MI, THENCE NORTH (RIGHT) ON A LEASE RD. ± 3.6 MI, THENCE NORTHEAST (RIGHT) ON CO. RD. 31 ± 3.1 MI, THENCE SOUTH (RIGHT) ON A LEASE RD., THENCE WEST (RIGHT) ON A PROPOSED RD. ± 3638 FEET TO A POINT ± 492 FEET NORTHEAST OF THE LOCATION.

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.



SCALE: 1" = 10000'

0' 5000' 10000'

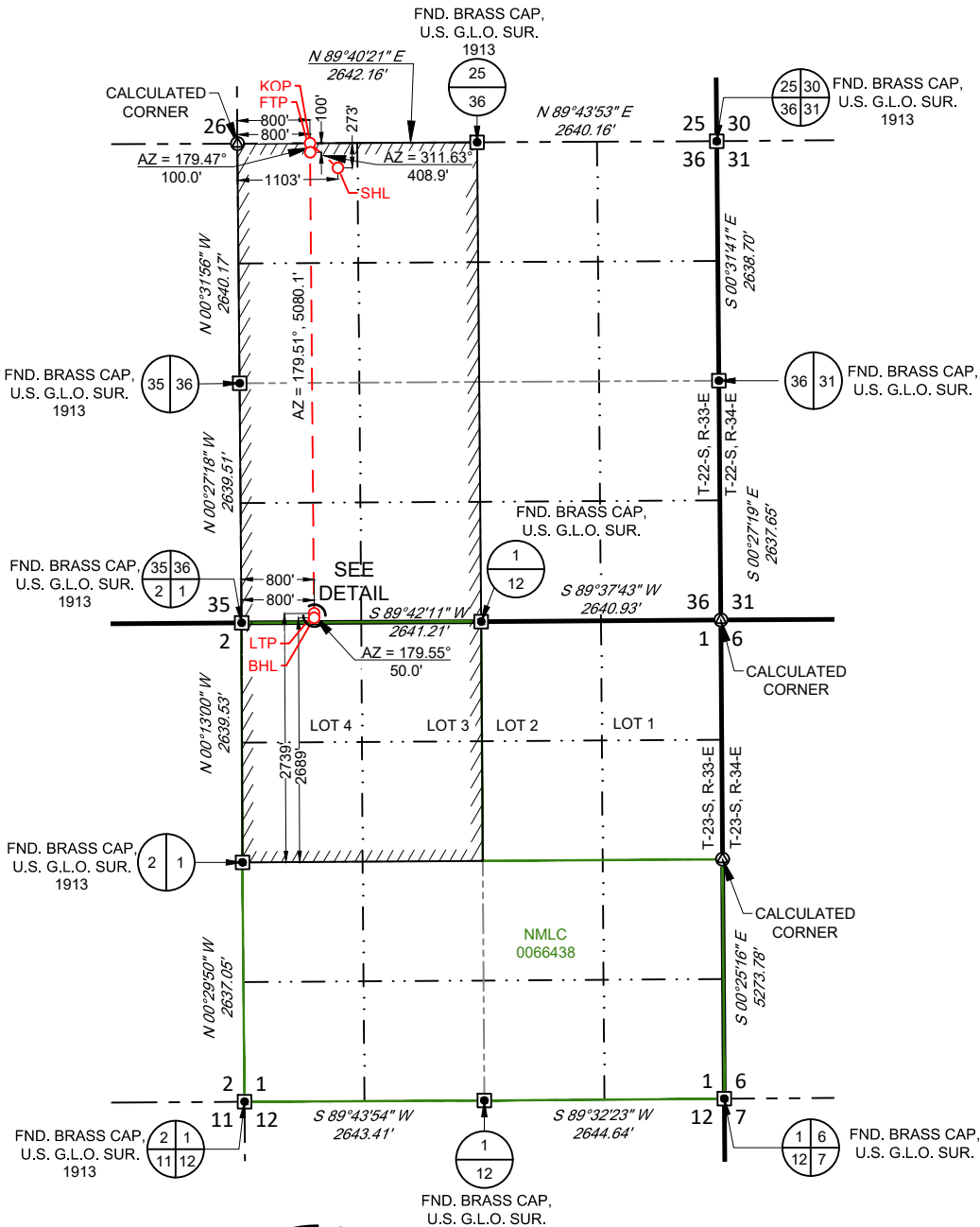
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

481 WINSOFT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

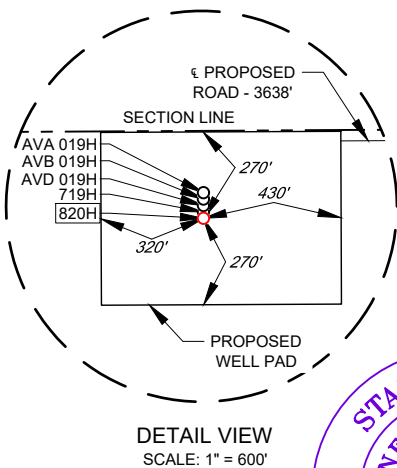
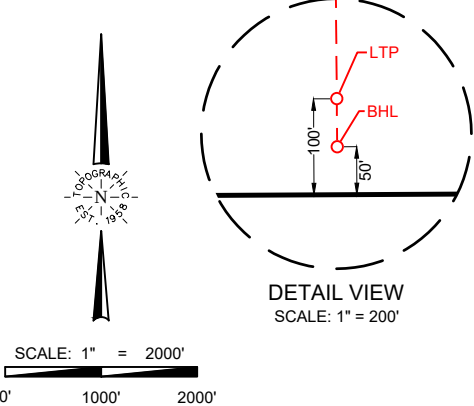
KAISER-FRANCIS OIL COMPANY

EXHIBIT 2A

SECTION 36, TOWNSHIP 22-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
273' FNL - SEC. 36
1103' FWL - SEC. 36
X=789077 Y=493697
LAT.: N 32.3546916
LONG.: W 103.5310503
KICK OFF POINT (KOP)
±0' FNL - SEC. 36
800' FWL - SEC. 36
X=788771 Y=493969
LAT.: N 32.3554446
LONG.: W 103.5320333
FIRST TAKE POINT (FTP)
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BOTTOM HOLE LOCATION (BHL)
50' FSL - SEC. 36
800' FWL - SEC. 36
X=788816 Y=488739
LAT.: N 32.3410688
LONG.: W 103.5320141



LEASE NAME & WELL NO.: BELL LAKE UNIT NORTH 820H

SECTION 36 TWP 22-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 273' FNL & 1103' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-128 AND NM-18. GO WEST ON NM-128 ±20.4 MI. THENCE NORTH (RIGHT) ON DELAWARE BASIN RD. ±6.0 MI. THENCE WEST (LEFT) ON A LEASE RD. ±2.4 MI. THENCE NORTH (RIGHT) ON A LEASE RD. ±3.6 MI, THENCE NORTHEAST (RIGHT) ON CO. RD. 31 ±3.1 MI, THENCE SOUTH (RIGHT) ON A LEASE RD., THENCE WEST (RIGHT) ON A PROPOSED RD. ±3638 FEET TO A POINT ±492 FEET NORTHEAST OF THE LOCATION.

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 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.



Stan W. Lloyd

Stan W. Lloyd, P.S. No. 19642



481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT 2B

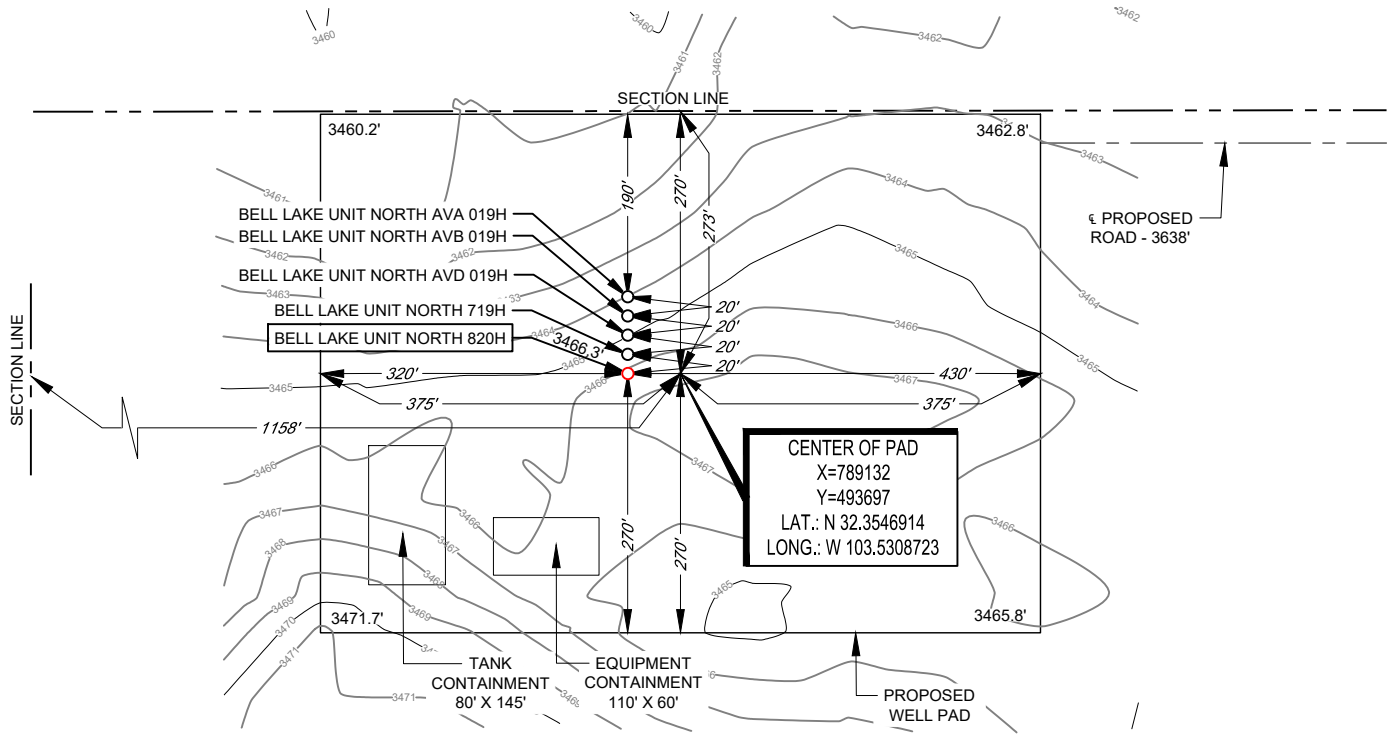
KAISER-FRANCIS OIL COMPANY

SECTION 36, TOWNSHIP 22-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

LEGEND

----- SECTION LINE
 --- PROPOSED ROAD

DETAIL VIEW
 SCALE: 1" = 200'



LEASE NAME & WELL NO.: BELL LAKE UNIT NORTH 820H
 820H LATITUDE N 32.3546916 820H LONGITUDE W 103.5310503

CENTER OF PAD IS 273' FNL & 1158' FWL



Stan W. Lloyd
 Stan W. Lloyd, P.S. No. 19642



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

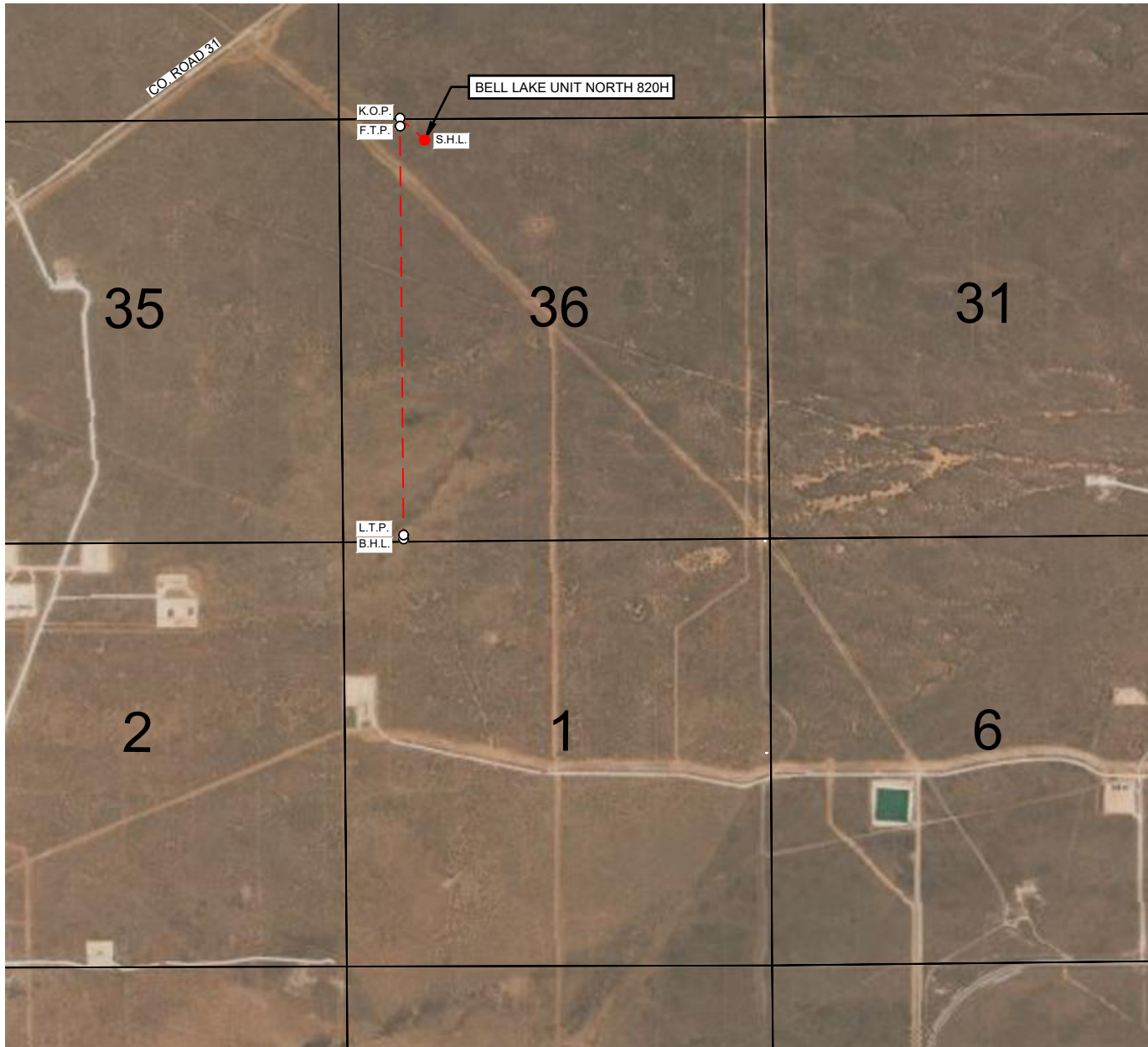
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE 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. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. 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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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 WWW.TOPOGRAPHIC.COM

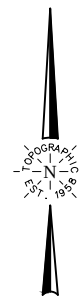
AERIAL PHOTO



KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BELL LAKE UNIT NORTH 820H

SECTION 36 TWP 22-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3466'
 DESCRIPTION 273' FNL & 1103' FWL

LATITUDE N 32.3546916 LONGITUDE W 103.5310503

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

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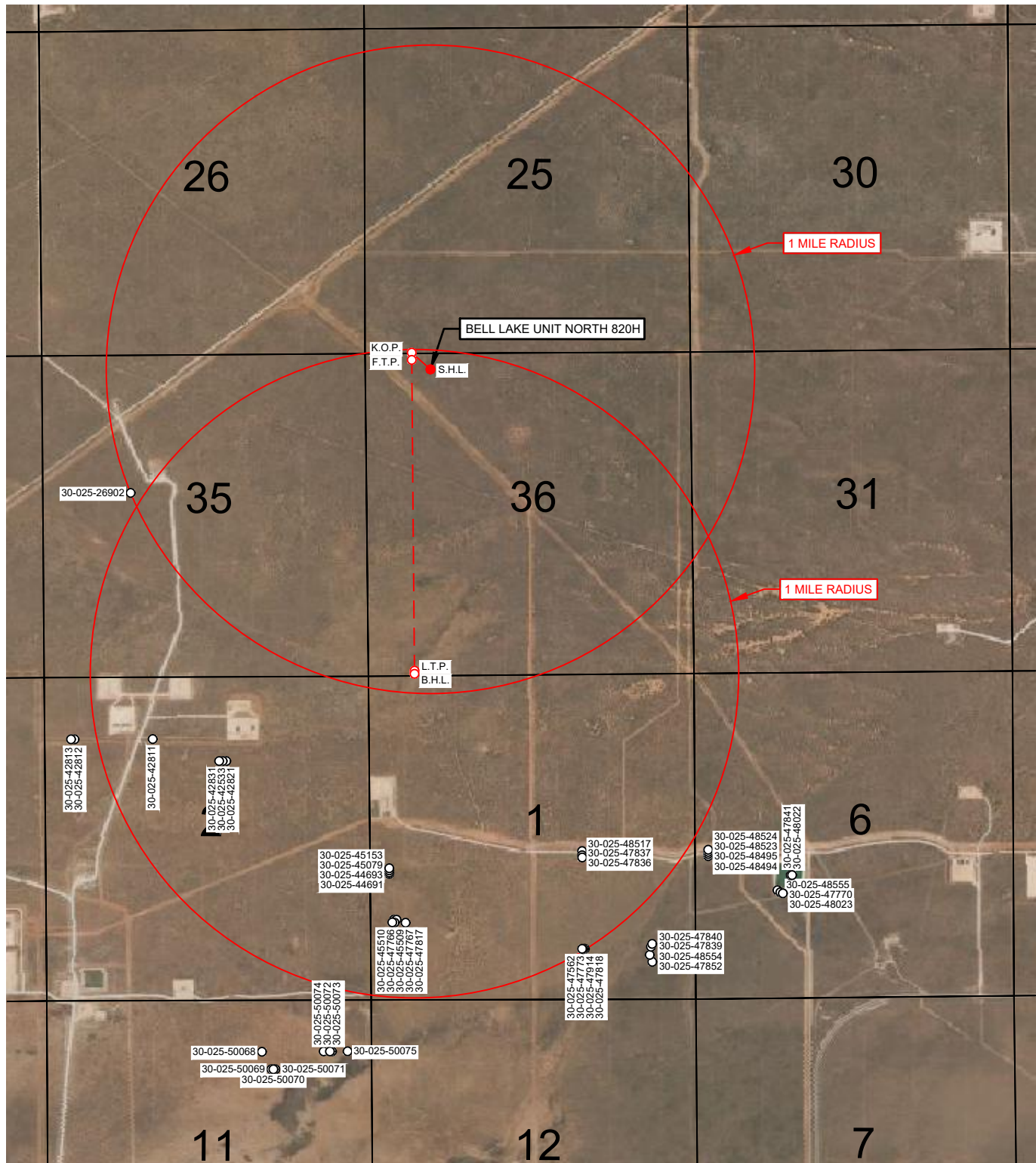


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EXHIBIT 3

SECTION 36, TOWNSHIP 22-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

KAISER-FRANCIS OIL COMPANY



LEASE NAME & WELL NO.: BELL LAKE UNIT NORTH 820H

820H LATITUDE N 32.3546916

820H LONGITUDE W 103.5310503

SCALE: NTS

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 LOYALTY INNOVATION LEGACY

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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 367763

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: KAISER-FRANCIS OIL CO [12361] PO Box 21468 Tulsa, OK 74121146	API Number: 30-025-53212
	Well: BELL LAKE UNIT NORTH #820H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
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
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 83

SEC 36-T22S-33E

Bell Lake Unit North 820H

Wellbore #1

Plan: Plan 1

Standard Planning Report

09 July, 2024

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T22S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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 36-T22S-33E		
Site Position:		Northing:	493,697.00 usft
From:	Map	Easting:	789,077.00 usft
Position Uncertainty:	0.50 usft	Slot Radius:	13-3/16 "
		Latitude:	32.35469190
		Longitude:	-103.53105028

Well	Bell Lake Unit North 820H					
Well Position	+N/-S	0.00 usft	Northing:	493,697.00 usft	Latitude:	32.35469190
	+E/-W	0.00 usft	Easting:	789,077.00 usft	Longitude:	-103.53105028
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,466.00 usft
Grid Convergence:		0.43 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/9/2024	6.18	59.92	47,254.43889604

Design	Plan 1				
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	180.00	

Plan Survey Tool Program	Date	7/9/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,408.01	Plan 1 (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	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,550.22	11.00	305.96	5,546.85	30.93	-42.64	2.00	2.00	0.00	305.96	
6,978.80	11.00	305.96	6,949.15	191.07	-263.36	0.00	0.00	0.00	0.00	
7,529.02	0.00	0.00	7,496.00	222.00	-306.00	2.00	-2.00	0.00	180.00	
10,955.56	0.00	0.00	10,922.54	222.00	-306.00	0.00	0.00	0.00	0.00	
11,705.56	90.00	179.50	11,400.01	-255.45	-301.85	12.00	12.00	23.93	179.50	
16,408.29	90.00	179.50	11,400.00	-4,958.00	-261.00	0.00	0.00	0.00	0.00	BLUN 820H PBHL (5C



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T2S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
5,100.00	2.00	305.96	5,099.98	1.02	-1.41	-1.02	2.00	2.00	0.00
5,200.00	4.00	305.96	5,199.84	4.10	-5.65	-4.10	2.00	2.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T22S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
5,300.00	6.00	305.96	5,299.45	9.22	-12.70	-9.22	2.00	2.00	0.00
5,400.00	8.00	305.96	5,398.70	16.37	-22.57	-16.37	2.00	2.00	0.00
5,500.00	10.00	305.96	5,497.47	25.56	-35.23	-25.56	2.00	2.00	0.00
5,550.22	11.00	305.96	5,546.85	30.93	-42.64	-30.93	2.00	2.00	0.00
Start 1428.58 hold at 5550.22 MD									
5,600.00	11.00	305.96	5,595.71	36.51	-50.33	-36.51	0.00	0.00	0.00
5,700.00	11.00	305.96	5,693.87	47.72	-65.78	-47.72	0.00	0.00	0.00
5,800.00	11.00	305.96	5,792.03	58.93	-81.23	-58.93	0.00	0.00	0.00
5,900.00	11.00	305.96	5,890.19	70.14	-96.68	-70.14	0.00	0.00	0.00
6,000.00	11.00	305.96	5,988.35	81.35	-112.13	-81.35	0.00	0.00	0.00
6,100.00	11.00	305.96	6,086.51	92.56	-127.58	-92.56	0.00	0.00	0.00
6,200.00	11.00	305.96	6,184.68	103.77	-143.03	-103.77	0.00	0.00	0.00
6,300.00	11.00	305.96	6,282.84	114.98	-158.48	-114.98	0.00	0.00	0.00
6,400.00	11.00	305.96	6,381.00	126.19	-173.93	-126.19	0.00	0.00	0.00
6,500.00	11.00	305.96	6,479.16	137.40	-189.38	-137.40	0.00	0.00	0.00
6,600.00	11.00	305.96	6,577.32	148.61	-204.84	-148.61	0.00	0.00	0.00
6,700.00	11.00	305.96	6,675.48	159.82	-220.29	-159.82	0.00	0.00	0.00
6,800.00	11.00	305.96	6,773.64	171.02	-235.74	-171.02	0.00	0.00	0.00
6,900.00	11.00	305.96	6,871.80	182.23	-251.19	-182.23	0.00	0.00	0.00
6,978.80	11.00	305.96	6,949.15	191.07	-263.36	-191.07	0.00	0.00	0.00
Start Drop -2.00									
7,000.00	10.58	305.96	6,969.98	193.40	-266.58	-193.40	2.00	-2.00	0.00
7,100.00	8.58	305.96	7,068.58	203.17	-280.05	-203.17	2.00	-2.00	0.00
7,200.00	6.58	305.96	7,167.70	210.92	-290.72	-210.92	2.00	-2.00	0.00
7,300.00	4.58	305.96	7,267.22	216.63	-298.59	-216.63	2.00	-2.00	0.00
7,400.00	2.58	305.96	7,367.02	220.29	-303.65	-220.29	2.00	-2.00	0.00
7,500.00	0.58	305.96	7,466.98	221.91	-305.88	-221.91	2.00	-2.00	0.00
7,529.02	0.00	0.00	7,496.00	222.00	-306.00	-222.00	2.00	-2.00	0.00
Start 3426.54 hold at 7529.02 MD									
7,600.00	0.00	0.00	7,566.98	222.00	-306.00	-222.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,666.98	222.00	-306.00	-222.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,766.98	222.00	-306.00	-222.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,866.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,966.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,066.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,166.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,266.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,366.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,466.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,566.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,666.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,766.98	222.00	-306.00	-222.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,866.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,966.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,066.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,166.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,266.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,366.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,466.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,566.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,666.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,766.98	222.00	-306.00	-222.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,866.98	222.00	-306.00	-222.00	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T2S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
10,000.00	0.00	0.00	9,966.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,066.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,166.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,266.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,366.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,466.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,566.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,666.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,766.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,866.98	222.00	-306.00	-222.00	0.00	0.00	0.00
10,955.56	0.00	0.00	10,922.54	222.00	-306.00	-222.00	0.00	0.00	0.00
Start DLS 12.00 TFO 179.50									
10,975.00	2.33	179.50	10,941.97	221.60	-306.00	-221.60	12.00	12.00	0.00
11,000.00	5.33	179.50	10,966.91	219.93	-305.98	-219.93	12.00	12.00	0.00
11,025.00	8.33	179.50	10,991.73	216.96	-305.96	-216.96	12.00	12.00	0.00
11,050.00	11.33	179.50	11,016.36	212.69	-305.92	-212.69	12.00	12.00	0.00
11,075.00	14.33	179.50	11,040.74	207.14	-305.87	-207.14	12.00	12.00	0.00
11,100.00	17.33	179.50	11,064.79	200.32	-305.81	-200.32	12.00	12.00	0.00
11,125.00	20.33	179.50	11,088.44	192.25	-305.74	-192.25	12.00	12.00	0.00
11,150.00	23.33	179.50	11,111.65	182.95	-305.66	-182.95	12.00	12.00	0.00
11,175.00	26.33	179.50	11,134.33	172.46	-305.57	-172.46	12.00	12.00	0.00
11,200.00	29.33	179.50	11,156.44	160.79	-305.47	-160.79	12.00	12.00	0.00
11,225.00	32.33	179.50	11,177.90	147.98	-305.36	-147.98	12.00	12.00	0.00
11,250.00	35.33	179.50	11,198.67	134.06	-305.24	-134.06	12.00	12.00	0.00
11,275.00	38.33	179.50	11,218.68	119.07	-305.11	-119.07	12.00	12.00	0.00
11,300.00	41.33	179.50	11,237.87	103.06	-304.97	-103.06	12.00	12.00	0.00
11,325.00	44.33	179.50	11,256.20	86.07	-304.82	-86.07	12.00	12.00	0.00
11,350.00	47.33	179.50	11,273.62	68.14	-304.66	-68.14	12.00	12.00	0.00
11,375.00	50.33	179.50	11,290.08	49.32	-304.50	-49.32	12.00	12.00	0.00
11,400.00	53.33	179.50	11,305.52	29.67	-304.33	-29.67	12.00	12.00	0.00
11,425.00	56.33	179.50	11,319.92	9.24	-304.15	-9.24	12.00	12.00	0.00
11,450.00	59.33	179.50	11,333.23	-11.92	-303.97	11.92	12.00	12.00	0.00
11,475.00	62.33	179.50	11,345.41	-33.75	-303.78	33.75	12.00	12.00	0.00
11,500.00	65.33	179.50	11,356.43	-56.18	-303.58	56.18	12.00	12.00	0.00
11,525.00	68.33	179.50	11,366.27	-79.17	-303.38	79.17	12.00	12.00	0.00
11,550.00	71.33	179.50	11,374.89	-102.63	-303.18	102.63	12.00	12.00	0.00
11,575.00	74.33	179.50	11,382.27	-126.51	-302.97	126.51	12.00	12.00	0.00
11,600.00	77.33	179.50	11,388.38	-150.75	-302.76	150.75	12.00	12.00	0.00
11,625.00	80.33	179.50	11,393.22	-175.27	-302.55	175.27	12.00	12.00	0.00
11,650.00	83.33	179.50	11,396.78	-200.01	-302.33	200.01	12.00	12.00	0.00
11,675.00	86.33	179.50	11,399.03	-224.91	-302.12	224.91	12.00	12.00	0.00
11,700.00	89.33	179.50	11,399.97	-249.89	-301.90	249.89	12.00	12.00	0.00
11,705.56	90.00	179.50	11,400.01	-255.45	-301.85	255.45	12.00	12.00	0.00
Start 4702.73 hold at 11705.56 MD									
11,800.00	90.00	179.50	11,400.00	-349.88	-301.03	349.88	0.00	0.00	0.00
11,900.00	90.00	179.50	11,400.00	-449.88	-300.16	449.88	0.00	0.00	0.00
12,000.00	90.00	179.50	11,400.00	-549.87	-299.29	549.87	0.00	0.00	0.00
12,100.00	90.00	179.50	11,400.00	-649.87	-298.43	649.87	0.00	0.00	0.00
12,200.00	90.00	179.50	11,400.00	-749.87	-297.56	749.87	0.00	0.00	0.00
12,300.00	90.00	179.50	11,400.00	-849.86	-296.69	849.86	0.00	0.00	0.00
12,400.00	90.00	179.50	11,400.00	-949.86	-295.82	949.86	0.00	0.00	0.00
12,500.00	90.00	179.50	11,400.00	-1,049.86	-294.95	1,049.86	0.00	0.00	0.00
12,600.00	90.00	179.50	11,400.00	-1,149.85	-294.08	1,149.85	0.00	0.00	0.00
12,700.00	90.00	179.50	11,400.00	-1,249.85	-293.21	1,249.85	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T22S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)	
12,800.00	90.00	179.50	11,400.00	-1,349.84	-292.34	1,349.84	0.00	0.00	0.00	
12,900.00	90.00	179.50	11,400.00	-1,449.84	-291.48	1,449.84	0.00	0.00	0.00	
13,000.00	90.00	179.50	11,400.00	-1,549.84	-290.61	1,549.84	0.00	0.00	0.00	
13,100.00	90.00	179.50	11,400.00	-1,649.83	-289.74	1,649.83	0.00	0.00	0.00	
13,200.00	90.00	179.50	11,400.00	-1,749.83	-288.87	1,749.83	0.00	0.00	0.00	
13,300.00	90.00	179.50	11,400.00	-1,849.83	-288.00	1,849.83	0.00	0.00	0.00	
13,400.00	90.00	179.50	11,400.00	-1,949.82	-287.13	1,949.82	0.00	0.00	0.00	
13,500.00	90.00	179.50	11,400.00	-2,049.82	-286.26	2,049.82	0.00	0.00	0.00	
13,600.00	90.00	179.50	11,400.00	-2,149.81	-285.40	2,149.81	0.00	0.00	0.00	
13,700.00	90.00	179.50	11,400.00	-2,249.81	-284.53	2,249.81	0.00	0.00	0.00	
13,800.00	90.00	179.50	11,400.00	-2,349.81	-283.66	2,349.81	0.00	0.00	0.00	
13,900.00	90.00	179.50	11,400.00	-2,449.80	-282.79	2,449.80	0.00	0.00	0.00	
14,000.00	90.00	179.50	11,400.00	-2,549.80	-281.92	2,549.80	0.00	0.00	0.00	
14,100.00	90.00	179.50	11,400.00	-2,649.80	-281.05	2,649.80	0.00	0.00	0.00	
14,200.00	90.00	179.50	11,400.00	-2,749.79	-280.18	2,749.79	0.00	0.00	0.00	
14,300.00	90.00	179.50	11,400.00	-2,849.79	-279.31	2,849.79	0.00	0.00	0.00	
14,400.00	90.00	179.50	11,400.00	-2,949.78	-278.45	2,949.78	0.00	0.00	0.00	
14,500.00	90.00	179.50	11,400.00	-3,049.78	-277.58	3,049.78	0.00	0.00	0.00	
14,600.00	90.00	179.50	11,400.00	-3,149.78	-276.71	3,149.78	0.00	0.00	0.00	
14,700.00	90.00	179.50	11,400.00	-3,249.77	-275.84	3,249.77	0.00	0.00	0.00	
14,800.00	90.00	179.50	11,400.00	-3,349.77	-274.97	3,349.77	0.00	0.00	0.00	
14,900.00	90.00	179.50	11,400.00	-3,449.76	-274.10	3,449.76	0.00	0.00	0.00	
15,000.00	90.00	179.50	11,400.00	-3,549.76	-273.23	3,549.76	0.00	0.00	0.00	
15,100.00	90.00	179.50	11,400.00	-3,649.76	-272.37	3,649.76	0.00	0.00	0.00	
15,200.00	90.00	179.50	11,400.00	-3,749.75	-271.50	3,749.75	0.00	0.00	0.00	
15,300.00	90.00	179.50	11,400.00	-3,849.75	-270.63	3,849.75	0.00	0.00	0.00	
15,400.00	90.00	179.50	11,400.00	-3,949.75	-269.76	3,949.75	0.00	0.00	0.00	
15,500.00	90.00	179.50	11,400.00	-4,049.74	-268.89	4,049.74	0.00	0.00	0.00	
15,600.00	90.00	179.50	11,400.00	-4,149.74	-268.02	4,149.74	0.00	0.00	0.00	
15,700.00	90.00	179.50	11,400.00	-4,249.73	-267.15	4,249.73	0.00	0.00	0.00	
15,800.00	90.00	179.50	11,400.00	-4,349.73	-266.28	4,349.73	0.00	0.00	0.00	
15,900.00	90.00	179.50	11,400.00	-4,449.73	-265.42	4,449.73	0.00	0.00	0.00	
16,000.00	90.00	179.50	11,400.00	-4,549.72	-264.55	4,549.72	0.00	0.00	0.00	
16,100.00	90.00	179.50	11,400.00	-4,649.72	-263.68	4,649.72	0.00	0.00	0.00	
16,200.00	90.00	179.50	11,400.00	-4,749.72	-262.81	4,749.72	0.00	0.00	0.00	
16,300.00	90.00	179.50	11,400.00	-4,849.71	-261.94	4,849.71	0.00	0.00	0.00	
16,408.29	90.00	179.50	11,400.00	-4,958.00	-261.00	4,958.00	0.00	0.00	0.00	
TD at 16408.29										



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bell Lake Unit North 820H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Project:	LEA COUNTY, N.M. 83	MD Reference:	RKB 24' + GL 3466' @ 3490.00usft
Site:	SEC 36-T22S-33E	North Reference:	Grid
Well:	Bell Lake Unit North 820H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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
BLUN 820H KOP - plan hits target center - Point	0.00	0.00	10,922.54	222.00	-306.00	493,919.00	788,771.00	32.35530838	-103.53203577
BLUN 820H PBHL (50' F) - plan hits target center - Point	0.00	0.00	11,400.00	-4,958.00	-261.00	488,739.00	788,816.00	32.34106980	-103.53201559
BLUN 820H FTP (100' F) - plan misses target center by 163.40usft at 11355.01usft MD (11276.99 TVD, 64.44 N, -304.63 E) - Point	0.00	0.00	11,400.00	172.00	-305.00	493,869.00	788,772.00	32.35517093	-103.53203375
BLUN 820H LTP (100' F) - plan misses target center by 0.43usft at 16358.29usft MD (11400.00 TVD, -4908.00 N, -261.43 E) - Point	0.00	0.00	11,400.00	-4,908.00	-261.00	488,789.00	788,816.00	32.34120723	-103.53201438

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
16,408.29	11,400.00	20" Casing		20	24

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,000.00	5,000.00	0.00	0.00	Start Build 2.00	
5,550.22	5,546.85	30.93	-42.64	Start 1428.58 hold at 5550.22 MD	
6,978.80	6,949.15	191.07	-263.36	Start Drop -2.00	
7,529.02	7,496.00	222.00	-306.00	Start 3426.54 hold at 7529.02 MD	
10,955.56	10,922.54	222.00	-306.00	Start DLS 12.00 TFO 179.50	
11,705.56	11,400.01	-255.45	-301.85	Start 4702.73 hold at 11705.56 MD	
16,408.29	11,400.00	-4,958.00	-261.00	TD at 16408.29	

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:** 07 / 09/2024

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 Unit North 820H		D-36-22S-33E	273' FNL 1103' FWL	1500	1500	3500

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 Unit North 820H		10/1/2024	10/26/2024	11/10/2024	11/17/2024	11/18/2024

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.

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: Curt Jones
Printed Name: Curt Jones
Title: Drilling Engineer
E-mail Address: curtj@kfoc.net
Date: 07/10/2024
Phone: 918-986-9080
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval: