

District I

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

District II

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

District III

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

District IV

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

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

Form C-101

August 1, 2011

Permit 374549

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
		3. API Number 30-015-55619
4. Property Code 336460	5. Property Name BRANTLEY FEE 2419	6. Well No. 553H

7. Surface Location

UL - Lot L	Section 24	Township 23S	Range 28E	Lot Idn	Feet From 1367	N/S Line S	Feet From 649	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	---------	-------------------	---------------	------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot I	Section 19	Township 23S	Range 29E	Lot Idn I	Feet From 1980	N/S Line S	Feet From 100	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

9. Pool Information

CULEBRA BLUFF;BONE SPRING, SOUTH	15011
----------------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2995
16. Multiple N	17. Proposed Depth 20430	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 12/10/2024
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	500	590	0
Int1	12.25	10.75	45.5	2800	430	0
Int2	9.875	7.625	29.7	9600	800	0
Prod	6.75	5.5	20	20430	1800	0

Casing/Cement Program: Additional Comments

--

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.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Christina Opfer	Approved By:	Ward Rikala
Title:		Title:	Petroleum Specialist Supervisor
Email Address:	christinaO@kfoc.net	Approved Date:	10/30/2024
Date:	10/8/2024	Expiration Date:	10/30/2026
Phone:	918-491-4468	Conditions of Approval Attached	

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- 30-015-55619	Pool Code 15011	Pool Name Culebra Bluff; Bone Spring, South
Property Code 333758 336460	Property Name BRANTLEY FEE 2419	Well Number #553H
OGRID No. 12361	Operator Name KAISER-FRANCIS OIL COMPANY	Ground Level Elevation 2995'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no. L	Section 24	Township 23-S	Range 28-E	Lot Idn -	Feet from the N/S 1367' S	Feet from the E/W 649' W	Latitude N 32.2875274	Longitude W 104.0474364	County EDDY
---------------------------	----------------------	-------------------------	----------------------	---------------------	-------------------------------------	------------------------------------	---------------------------------	-----------------------------------	-----------------------

Bottom Hole Location

UL or lot no. I	Section 19	Township 23-S	Range 29-E	Lot Idn -	Feet from the N/S 1980' S	Feet from the E/W 100' E	Latitude N 32.2886086	Longitude W 104.0158566	County EDDY
---------------------------	----------------------	-------------------------	----------------------	---------------------	-------------------------------------	------------------------------------	---------------------------------	-----------------------------------	-----------------------

Dedicated Acres 318.46	Infill or Defining Well INFILL	Defining Well API 30-015-53368	Overlapping Spacing Unit (Y/N)	Consolidated Code
Order Numbers			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 -
---------------------------	---------------------	----------------------	-------------------	---------------------	---------------------------------	---------------------------------	----------------------	-----------------------	--------------------

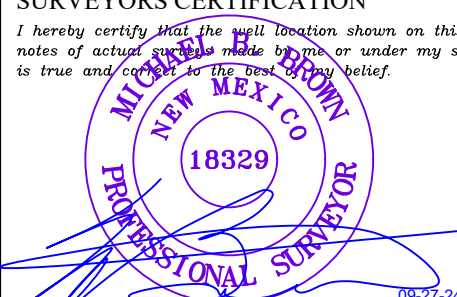
First Take Point (FTP)

UL or lot no. L	Section 24	Township 23-S	Range 28-E	Lot Idn -	Feet from the N/S 1980' S	Feet from the E/W 100' W	Latitude N 32.2892278	Longitude W 104.0492409	County EDDY
---------------------------	----------------------	-------------------------	----------------------	---------------------	-------------------------------------	------------------------------------	---------------------------------	-----------------------------------	-----------------------

Last Take Point (LTP)

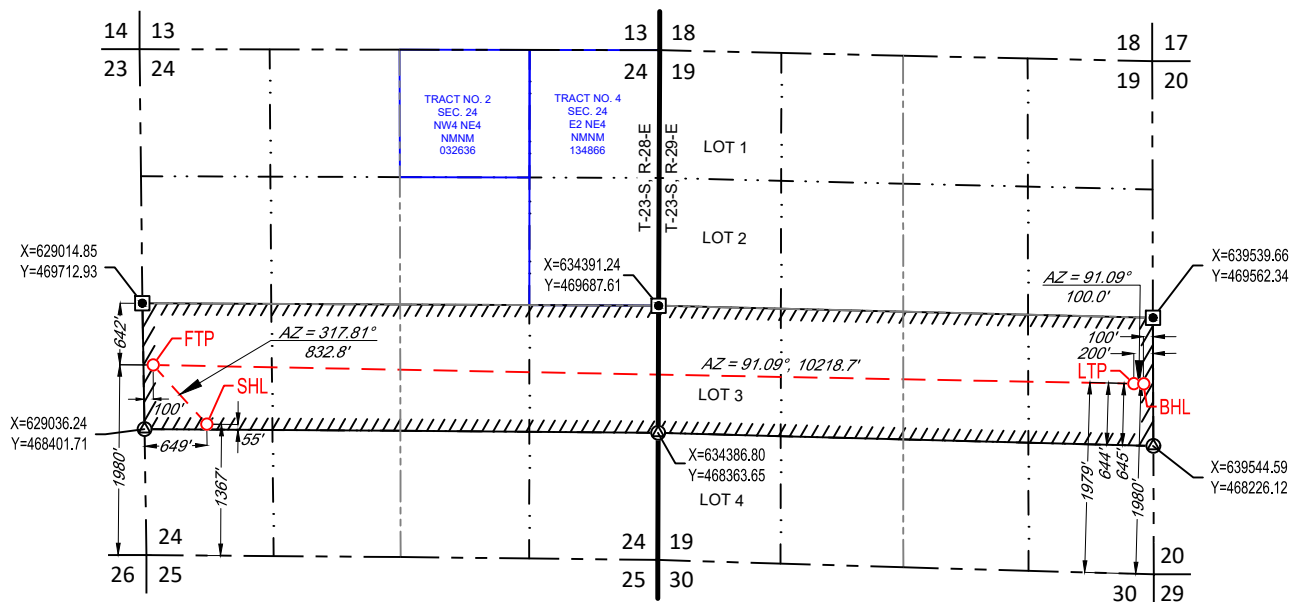
UL or lot no. I	Section 19	Township 23-S	Range 29-E	Lot Idn -	Feet from the N/S 1979' S	Feet from the E/W 200' E	Latitude N 32.2886146	Longitude W 104.0161801	County EDDY
---------------------------	----------------------	-------------------------	----------------------	---------------------	-------------------------------------	------------------------------------	---------------------------------	-----------------------------------	-----------------------

Unitized Area or Area of Uniform Intrest	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 2995'
--	--	--

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 10/7/2024 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>  Signature and Seal of Professional Surveyor Date Certificate Number Date of Survey 05/15/2024	
--	--	---	--

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	

BRANTLEY FEE 2419 #553H

**SURFACE LOCATION (SHL)**NEW MEXICO EAST
NAD 1983

X=629685 Y=468453
LAT.: N 32.2875274
LONG.: W 104.0474364

1367' FSL 649' FWL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983

X=629125 Y=469070
LAT.: N 32.2892278
LONG.: W 104.0492409

1980' FSL 100' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983

X=639342 Y=468876
LAT.: N 32.2886146
LONG.: W 104.0161801

1979' FSL 200' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983

X=639442 Y=468874
LAT.: N 32.2886086
LONG.: W 104.0158566

1980' FSL 100' FEL



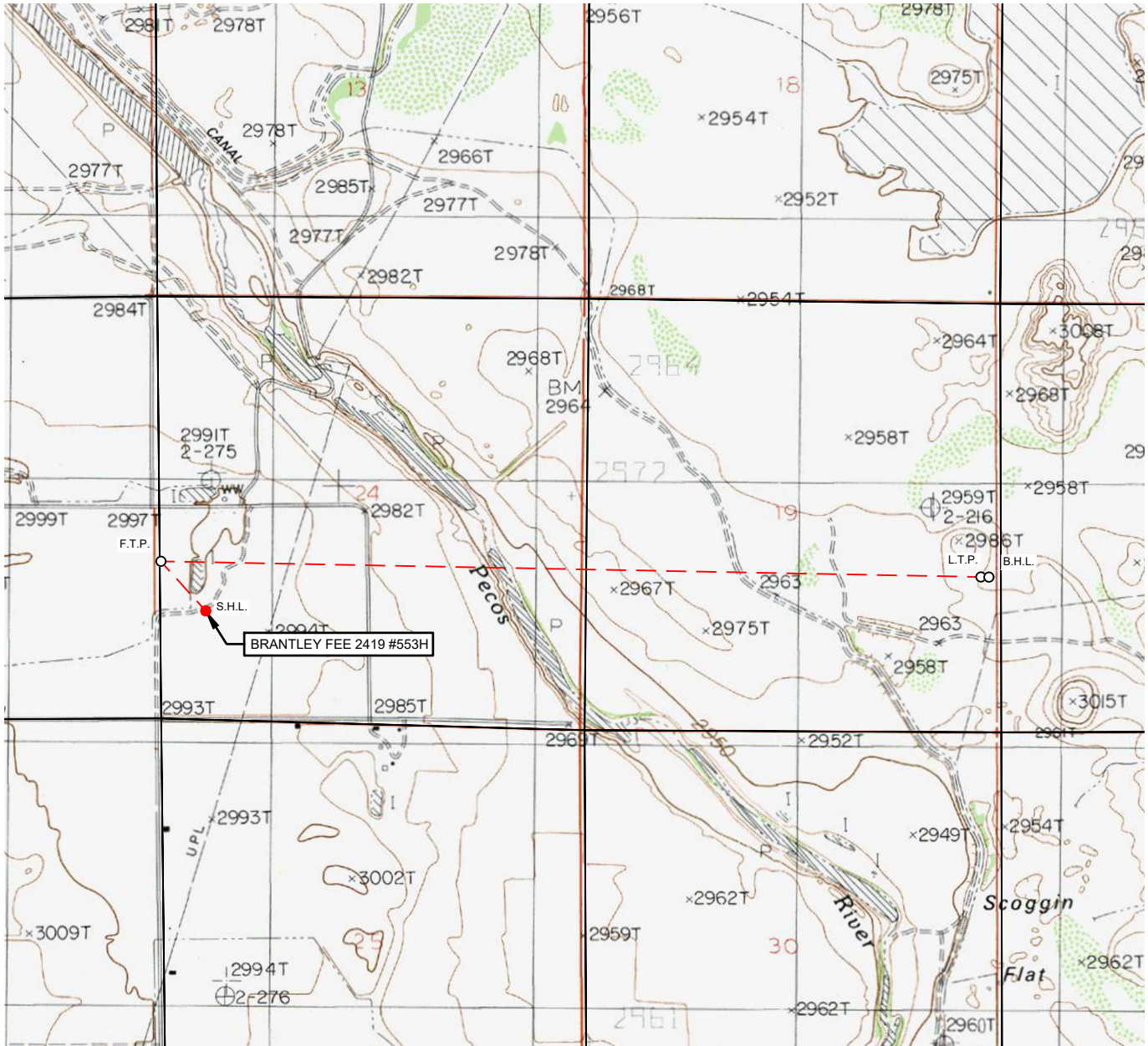
SURVEYORS CERTIFICATION

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

05/15/2024

Date of Survey _____

LOCATION & ELEVATION VERIFICATION MAP

KAISER-FRANCIS
OIL COMPANYLEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553HSECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 2995'
DESCRIPTION 1367' FSL & 649' FWLLATITUDE N 32.2875274 LONGITUDE W 104.0474364SCALE: 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.

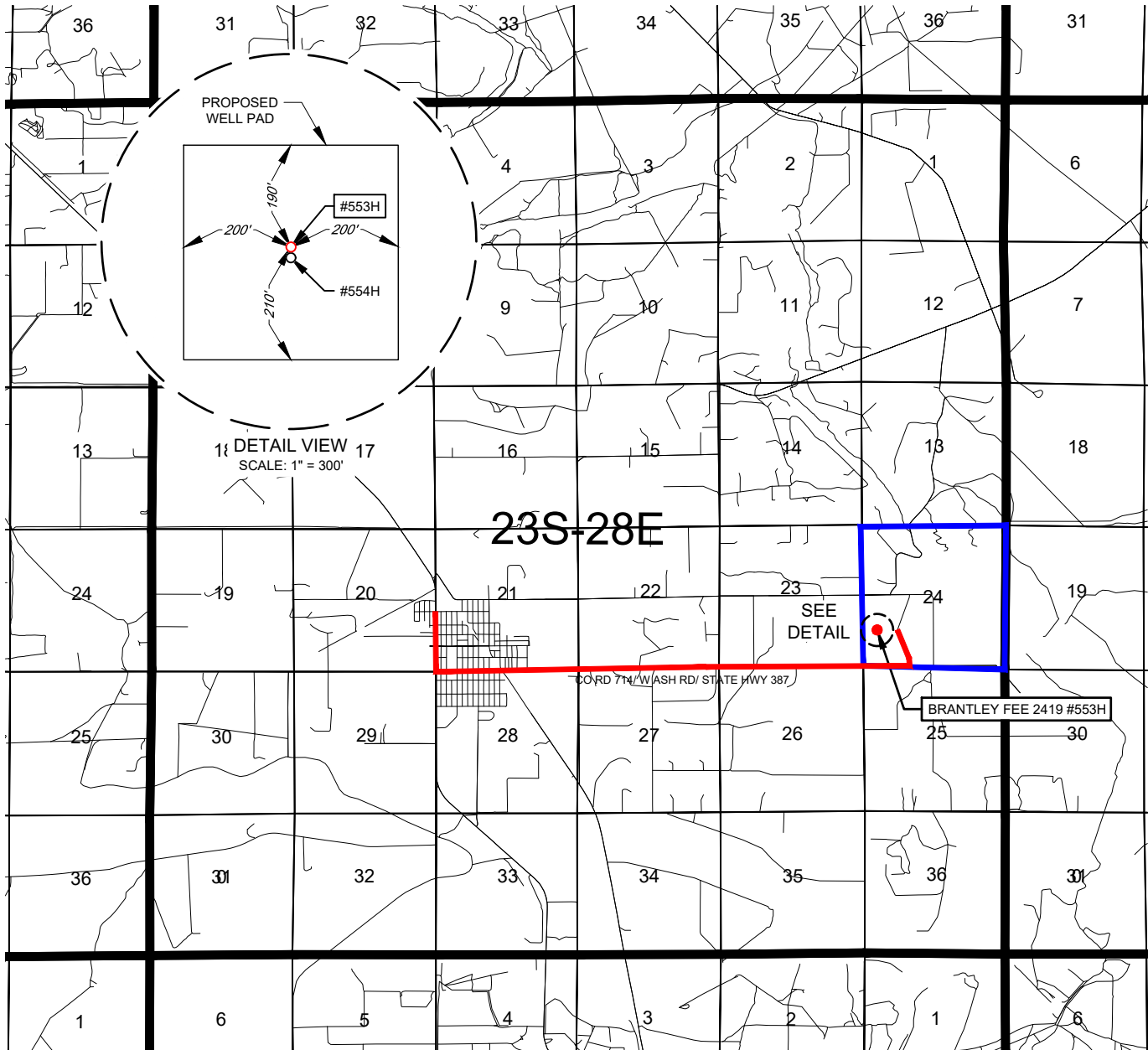


481 WINSOFT ROAD, Ste. 200 • BENBROOK, TEXAS 76126

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

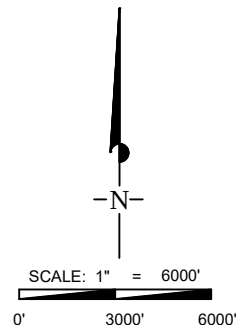
EXHIBIT 2
VICINITY MAPKAISER-FRANCIS
OIL COMPANYLEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553HSECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.COUNTY EDDY STATE NMDESCRIPTION 1367' FSL & 649' FWL

DISTANCE & DIRECTION

FROM THE INTERSECTION OF NM HWY 285/S 8TH ST. & W POPLAR ST. IN
LOVING, NM GO ±0.4 MILE SOUTH ON NM HWY 285. THENCE EAST (LEFT)
ON COUNTY RD 714/ WASH RD/ STATE HWY 387 ±3.3 MILES, THENCE
NORTH (LEFT) ON A LEASE RD. ±0.3 MILE TO A POINT ±627 FEET EAST
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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

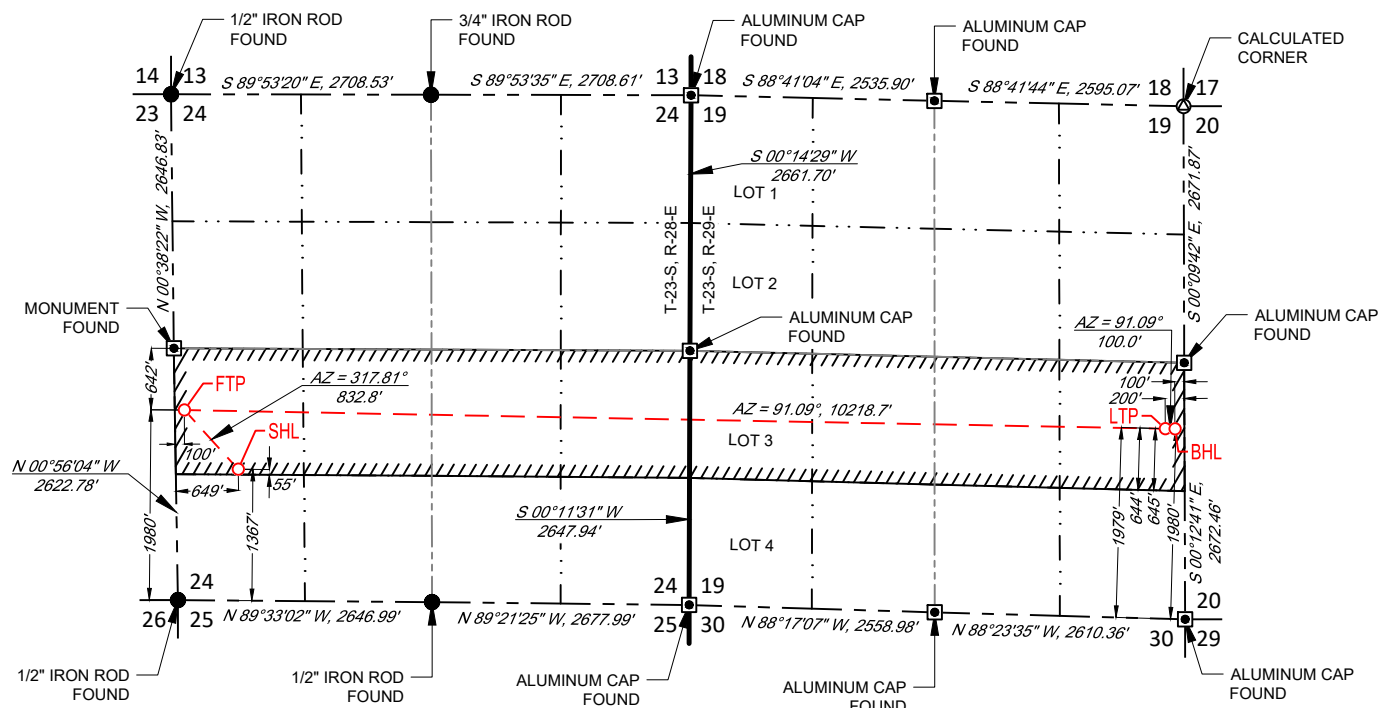
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

SCALE: 1" = 2000'

0' 1000' 2000'

KAISER-FRANCIS OIL COMPANY

SECTION 24, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=629685 Y=468453
LAT.: N 32.2875274
LONG.: W 104.0474364
1367' FSL 649' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=639342 Y=468876
LAT.: N 32.2886146
LONG.: W 104.0161801
1979' FSL 200' FEL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=629125 Y=469070
LAT.: N 32.2892278
LONG.: W 104.0492409
1980' FSL 100' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=639442 Y=468874
LAT.: N 32.2886086
LONG.: W 104.0158566
1980' FSL 100' FEL

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553H

SECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 1367' FSL & 649' FWL

DISTANCE & DIRECTION

FROM THE INTERSECTION OF NM HWY 285/S 8TH ST. & W POPLAR ST. IN
LOVING, NM GO ±0.4 MILE SOUTH ON NM HWY 285, THENCE EAST (LEFT)
ON COUNTY RD 714/ W ASH RD/ STATE HWY 387 ±3.3 MILES, THENCE
NORTH (LEFT) ON A LEASE RD. ±0.3 MILE TO A POINT ±627 FEET EAST
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.



Michael B. Brown, P.S. No. 18329
June 6, 2024



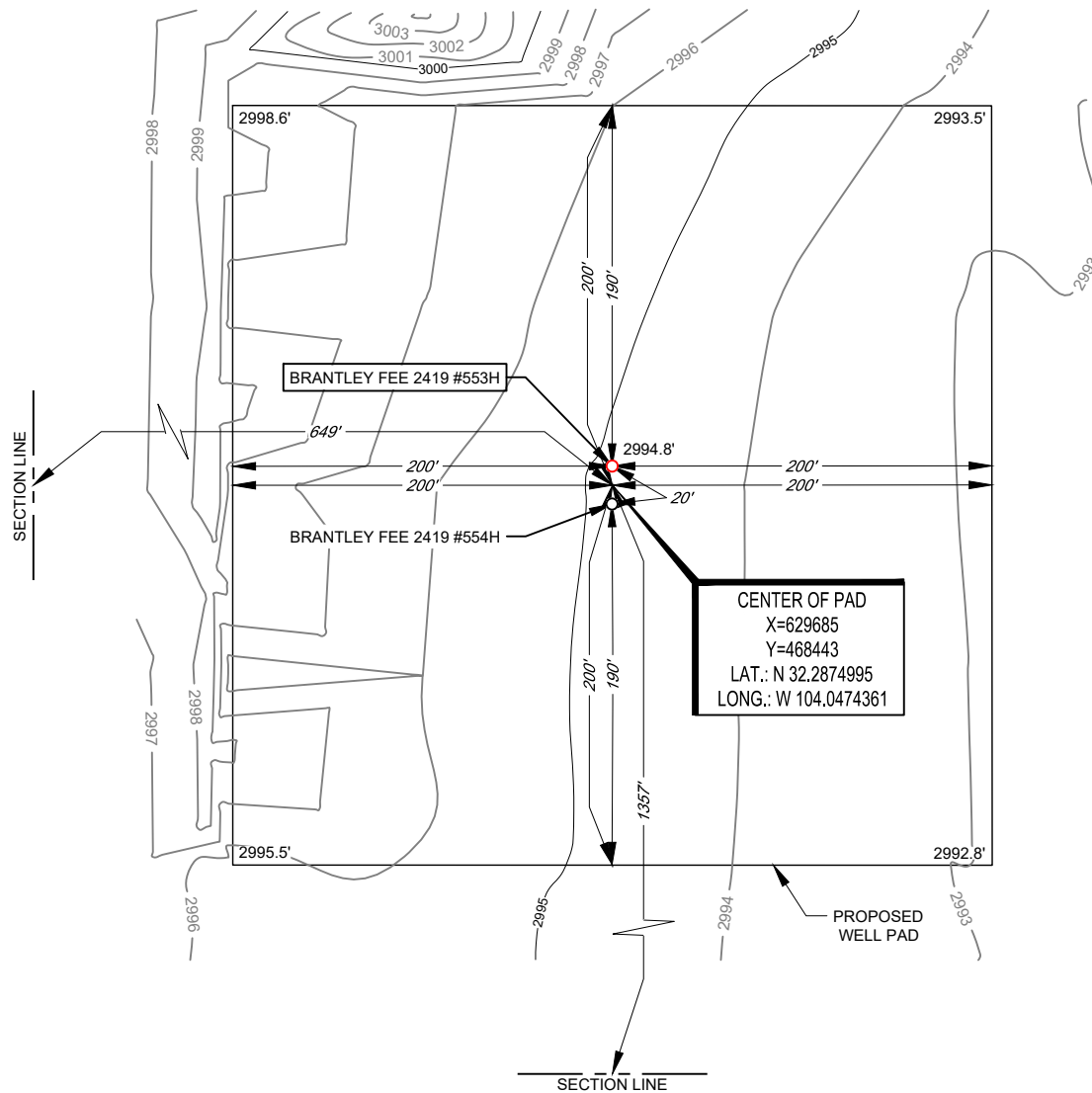
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

C:\SURVEY\KAISER_FRANCIS\BRANTLEY_WC_RE-OCCUPY\FINAL_PRODUCTS\LO_BRANTLEY_FEE_2419_#553H_REV1.DWG 9/27/2024 5:48:37 PM caleb.robertson

KAISER-FRANCIS
OIL COMPANY

LEGEND

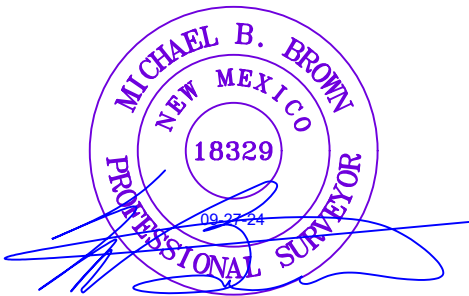
SECTION LINE

SECTION 24, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553H

#553H LATITUDE N 32.2875274 #553H LONGITUDE W 104.0474364

CENTER OF PAD IS 1357' FSL & 649' FWL

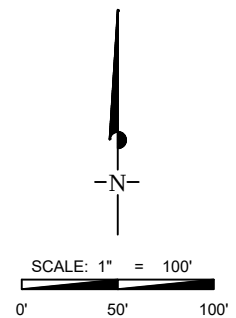


Michael B. Brown, P.S. No. 18329

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. 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 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

AERIAL PHOTO

KAISER-FRANCIS
OIL COMPANYLEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553HSECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 2995'
DESCRIPTION 1367' FSL & 649' FWLLATITUDE N 32.2875274 LONGITUDE W 104.0474364SCALE: 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.



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

EXHIBIT 3

SECTION 24, TOWNSHIP 23-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICOKAISER-FRANCIS
OIL COMPANY

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #553H

SCALE: NTS

#553H LATITUDE N 32.2875274

#553H LONGITUDE W 104.0474364

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.

TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

 481 WINSBROOK 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

O:\SURVEY\KAISER_FRANCIS\BRANTLEY_WC_RE-OCCUPY\FINAL_PRODUCTS\LO_BRANTLEY_FEE_2419_#553H_REV1.DWG 9/27/2024 5:48:38 PM caleb.robertson

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form APD Conditions
Permit 374549

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: KAISER-FRANCIS OIL CO [12361] PO Box 21468 Tulsa, OK 741211468	API Number: 30-015-55619
	Well: BRANTLEY FEE 2419 #553H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



KAISER FRANCIS OIL CO.

EDDY COUNTY, N.M. 83

SEC 24-T23S-R28E

BRANTLEY FEE 2419 553H

Wellbore #1

Plan: Plan 1 AC

Standard Planning Report

03 October, 2024

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

Project	EDDY 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 24-T23S-R28E				
Site Position:		Northing:	467,096.60	usft	Latitude:	32.28380362
From:	Map	Easting:	629,056.70	usft	Longitude:	-104.04947996
Position Uncertainty:			0.00	usft	Slot Radius:	13-3/16 "

Well	BRANTLEY FEE 2419 553H					
Well Position	+N/-S	0.00 usft	Northing:	468,453.00 usft	Latitude:	32.28752757
	+E/-W	0.00 usft	Easting:	629,685.00 usft	Longitude:	-104.04743515
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	2,995.00 usft
Grid Convergence:		0.15 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM 2023	10/3/2024	6.65	59.92	47,273.90000000

Design	Plan 1 AC				
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	90.00	

Plan Survey Tool Program	Date	10/3/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,427.39	Plan 1 AC (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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	
5,989.90	19.80	323.25	5,970.32	135.68	-101.31	2.00	2.00	0.00	323.25	
7,753.51	19.80	323.25	7,629.68	614.32	-458.69	0.00	0.00	0.00	0.00	
8,743.41	0.00	0.00	8,600.00	750.00	-560.00	2.00	-2.00	0.00	180.00	
9,770.45	0.00	0.00	9,627.04	750.00	-560.00	0.00	0.00	0.00	0.00	
10,670.45	90.00	99.00	10,200.00	660.37	5.90	10.00	10.00	0.00	99.00	
10,860.45	90.00	99.00	10,200.00	630.65	193.56	0.00	0.00	0.00	0.00	
11,255.81	90.00	91.09	10,200.00	595.90	587.09	2.00	0.00	-2.00	-90.00	
20,427.39	90.00	91.09	10,200.00	421.00	9,757.00	0.00	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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	323.25	5,099.98	1.40	-1.04	-1.04	2.00	2.00	0.00
5,200.00	4.00	323.25	5,199.84	5.59	-4.18	-4.18	2.00	2.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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	323.25	5,299.45	12.57	-9.39	-9.39	2.00	2.00	0.00
5,400.00	8.00	323.25	5,398.70	22.34	-16.68	-16.68	2.00	2.00	0.00
5,500.00	10.00	323.25	5,497.47	34.87	-26.04	-26.04	2.00	2.00	0.00
5,600.00	12.00	323.25	5,595.62	50.16	-37.45	-37.45	2.00	2.00	0.00
5,700.00	14.00	323.25	5,693.06	68.19	-50.91	-50.91	2.00	2.00	0.00
5,800.00	16.00	323.25	5,789.64	88.92	-66.40	-66.40	2.00	2.00	0.00
5,900.00	18.00	323.25	5,885.27	112.35	-83.89	-83.89	2.00	2.00	0.00
5,989.90	19.80	323.25	5,970.32	135.68	-101.31	-101.31	2.00	2.00	0.00
Start 1763.61 hold at 5989.90 MD									
6,000.00	19.80	323.25	5,979.82	138.42	-103.36	-103.36	0.00	0.00	0.00
6,100.00	19.80	323.25	6,073.91	165.56	-123.62	-123.62	0.00	0.00	0.00
6,200.00	19.80	323.25	6,168.00	192.70	-143.88	-143.88	0.00	0.00	0.00
6,300.00	19.80	323.25	6,262.09	219.84	-164.15	-164.15	0.00	0.00	0.00
6,400.00	19.80	323.25	6,356.18	246.98	-184.41	-184.41	0.00	0.00	0.00
6,500.00	19.80	323.25	6,450.27	274.12	-204.68	-204.68	0.00	0.00	0.00
6,600.00	19.80	323.25	6,544.36	301.26	-224.94	-224.94	0.00	0.00	0.00
6,700.00	19.80	323.25	6,638.45	328.40	-245.21	-245.21	0.00	0.00	0.00
6,800.00	19.80	323.25	6,732.54	355.54	-265.47	-265.47	0.00	0.00	0.00
6,900.00	19.80	323.25	6,826.63	382.68	-285.73	-285.73	0.00	0.00	0.00
7,000.00	19.80	323.25	6,920.71	409.82	-306.00	-306.00	0.00	0.00	0.00
7,100.00	19.80	323.25	7,014.80	436.96	-326.26	-326.26	0.00	0.00	0.00
7,200.00	19.80	323.25	7,108.89	464.10	-346.53	-346.53	0.00	0.00	0.00
7,300.00	19.80	323.25	7,202.98	491.24	-366.79	-366.79	0.00	0.00	0.00
7,400.00	19.80	323.25	7,297.07	518.38	-387.06	-387.06	0.00	0.00	0.00
7,500.00	19.80	323.25	7,391.16	545.52	-407.32	-407.32	0.00	0.00	0.00
7,600.00	19.80	323.25	7,485.25	572.66	-427.58	-427.58	0.00	0.00	0.00
7,700.00	19.80	323.25	7,579.34	599.80	-447.85	-447.85	0.00	0.00	0.00
7,753.51	19.80	323.25	7,629.68	614.32	-458.69	-458.69	0.00	0.00	0.00
Start Drop -2.00									
7,800.00	18.87	323.25	7,673.55	626.65	-467.90	-467.90	2.00	-2.00	0.00
7,900.00	16.87	323.25	7,768.73	651.24	-486.26	-486.26	2.00	-2.00	0.00
8,000.00	14.87	323.25	7,864.91	673.14	-502.61	-502.61	2.00	-2.00	0.00
8,100.00	12.87	323.25	7,961.99	692.35	-516.95	-516.95	2.00	-2.00	0.00
8,200.00	10.87	323.25	8,059.85	708.83	-529.26	-529.26	2.00	-2.00	0.00
8,300.00	8.87	323.25	8,158.36	722.56	-539.51	-539.51	2.00	-2.00	0.00
8,400.00	6.87	323.25	8,257.42	733.53	-547.70	-547.70	2.00	-2.00	0.00
8,500.00	4.87	323.25	8,356.89	741.72	-553.82	-553.82	2.00	-2.00	0.00
8,600.00	2.87	323.25	8,456.66	747.12	-557.85	-557.85	2.00	-2.00	0.00
8,700.00	0.87	323.25	8,556.60	749.74	-559.80	-559.80	2.00	-2.00	0.00
8,743.41	0.00	0.00	8,600.00	750.00	-560.00	-560.00	2.00	-2.00	0.00
Start 1027.04 hold at 8743.40 MD									
8,800.00	0.00	0.00	8,656.60	750.00	-560.00	-560.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,756.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,856.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,100.00	0.00	0.00	8,956.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,056.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,156.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,256.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,356.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,456.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,556.60	750.00	-560.00	-560.00	0.00	0.00	0.00
9,770.45	0.00	0.00	9,627.04	750.00	-560.00	-560.00	0.00	0.00	0.00
Start Build 10.00									



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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)
9,800.00	2.96	99.00	9,656.58	749.88	-559.25	-559.25	10.00	10.00	0.00
9,850.00	7.96	99.00	9,706.34	749.14	-554.55	-554.55	10.00	10.00	0.00
9,900.00	12.96	99.00	9,755.49	747.72	-545.59	-545.59	10.00	10.00	0.00
9,950.00	17.96	99.00	9,803.67	745.63	-532.44	-532.44	10.00	10.00	0.00
10,000.00	22.96	99.00	9,850.50	742.90	-515.18	-515.18	10.00	10.00	0.00
10,050.00	27.96	99.00	9,895.63	739.54	-493.97	-493.97	10.00	10.00	0.00
10,100.00	32.96	99.00	9,938.72	735.58	-468.94	-468.94	10.00	10.00	0.00
10,150.00	37.96	99.00	9,979.44	731.04	-440.30	-440.30	10.00	10.00	0.00
10,200.00	42.96	99.00	10,017.47	725.97	-408.27	-408.27	10.00	10.00	0.00
10,250.00	47.96	99.00	10,052.53	720.40	-373.09	-373.09	10.00	10.00	0.00
10,300.00	52.96	99.00	10,084.36	714.37	-335.02	-335.02	10.00	10.00	0.00
10,350.00	57.96	99.00	10,112.70	707.93	-294.35	-294.35	10.00	10.00	0.00
10,400.00	62.96	99.00	10,137.35	701.12	-251.40	-251.40	10.00	10.00	0.00
10,450.00	67.96	99.00	10,158.11	694.01	-206.49	-206.49	10.00	10.00	0.00
10,500.00	72.96	99.00	10,174.83	686.64	-159.97	-159.97	10.00	10.00	0.00
10,550.00	77.96	99.00	10,187.38	679.07	-112.18	-112.18	10.00	10.00	0.00
10,600.00	82.96	99.00	10,195.67	671.36	-63.50	-63.50	10.00	10.00	0.00
10,650.00	87.96	99.00	10,199.63	663.57	-14.29	-14.29	10.00	10.00	0.00
10,670.45	90.00	99.00	10,200.00	660.37	5.90	5.90	10.00	10.00	0.00
Start 190.00 hold at 10670.44 MD									
10,700.00	90.00	99.00	10,200.00	655.75	35.09	35.09	0.00	0.00	0.00
10,800.00	90.00	99.00	10,200.00	640.10	133.86	133.86	0.00	0.00	0.00
10,860.45	90.00	99.00	10,200.00	630.65	193.56	193.56	0.00	0.00	0.00
Start DLS 2.00 TFO -90.00									
10,900.00	90.00	98.21	10,200.00	624.73	232.67	232.67	2.00	0.00	-2.00
11,000.00	90.00	96.21	10,200.00	612.18	331.88	331.88	2.00	0.00	-2.00
11,100.00	90.00	94.21	10,200.00	603.10	431.46	431.46	2.00	0.00	-2.00
11,200.00	90.00	92.21	10,200.00	597.51	531.30	531.30	2.00	0.00	-2.00
11,255.81	90.00	91.09	10,200.00	595.90	587.09	587.09	2.00	0.00	-2.00
Start 9171.58 hold at 11255.81 MD									
11,300.00	90.00	91.09	10,200.00	595.06	631.27	631.27	0.00	0.00	0.00
11,400.00	90.00	91.09	10,200.00	593.15	731.25	731.25	0.00	0.00	0.00
11,500.00	90.00	91.09	10,200.00	591.24	831.23	831.23	0.00	0.00	0.00
11,600.00	90.00	91.09	10,200.00	589.33	931.21	931.21	0.00	0.00	0.00
11,700.00	90.00	91.09	10,200.00	587.43	1,031.19	1,031.19	0.00	0.00	0.00
11,800.00	90.00	91.09	10,200.00	585.52	1,131.18	1,131.18	0.00	0.00	0.00
11,900.00	90.00	91.09	10,200.00	583.61	1,231.16	1,231.16	0.00	0.00	0.00
12,000.00	90.00	91.09	10,200.00	581.71	1,331.14	1,331.14	0.00	0.00	0.00
12,100.00	90.00	91.09	10,200.00	579.80	1,431.12	1,431.12	0.00	0.00	0.00
12,200.00	90.00	91.09	10,200.00	577.89	1,531.10	1,531.10	0.00	0.00	0.00
12,300.00	90.00	91.09	10,200.00	575.99	1,631.08	1,631.08	0.00	0.00	0.00
12,400.00	90.00	91.09	10,200.00	574.08	1,731.07	1,731.07	0.00	0.00	0.00
12,500.00	90.00	91.09	10,200.00	572.17	1,831.05	1,831.05	0.00	0.00	0.00
12,600.00	90.00	91.09	10,200.00	570.26	1,931.03	1,931.03	0.00	0.00	0.00
12,700.00	90.00	91.09	10,200.00	568.36	2,031.01	2,031.01	0.00	0.00	0.00
12,800.00	90.00	91.09	10,200.00	566.45	2,130.99	2,130.99	0.00	0.00	0.00
12,900.00	90.00	91.09	10,200.00	564.54	2,230.98	2,230.98	0.00	0.00	0.00
13,000.00	90.00	91.09	10,200.00	562.64	2,330.96	2,330.96	0.00	0.00	0.00
13,100.00	90.00	91.09	10,200.00	560.73	2,430.94	2,430.94	0.00	0.00	0.00
13,200.00	90.00	91.09	10,200.00	558.82	2,530.92	2,530.92	0.00	0.00	0.00
13,300.00	90.00	91.09	10,200.00	556.92	2,630.90	2,630.90	0.00	0.00	0.00
13,400.00	90.00	91.09	10,200.00	555.01	2,730.88	2,730.88	0.00	0.00	0.00
13,500.00	90.00	91.09	10,200.00	553.10	2,830.87	2,830.87	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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)	
13,600.00	90.00	91.09	10,200.00	551.20	2,930.85	2,930.85	0.00	0.00	0.00	
13,700.00	90.00	91.09	10,200.00	549.29	3,030.83	3,030.83	0.00	0.00	0.00	
13,800.00	90.00	91.09	10,200.00	547.38	3,130.81	3,130.81	0.00	0.00	0.00	
13,900.00	90.00	91.09	10,200.00	545.47	3,230.79	3,230.79	0.00	0.00	0.00	
14,000.00	90.00	91.09	10,200.00	543.57	3,330.78	3,330.78	0.00	0.00	0.00	
14,100.00	90.00	91.09	10,200.00	541.66	3,430.76	3,430.76	0.00	0.00	0.00	
14,200.00	90.00	91.09	10,200.00	539.75	3,530.74	3,530.74	0.00	0.00	0.00	
14,300.00	90.00	91.09	10,200.00	537.85	3,630.72	3,630.72	0.00	0.00	0.00	
14,400.00	90.00	91.09	10,200.00	535.94	3,730.70	3,730.70	0.00	0.00	0.00	
14,500.00	90.00	91.09	10,200.00	534.03	3,830.68	3,830.68	0.00	0.00	0.00	
14,600.00	90.00	91.09	10,200.00	532.13	3,930.67	3,930.67	0.00	0.00	0.00	
14,700.00	90.00	91.09	10,200.00	530.22	4,030.65	4,030.65	0.00	0.00	0.00	
14,800.00	90.00	91.09	10,200.00	528.31	4,130.63	4,130.63	0.00	0.00	0.00	
14,900.00	90.00	91.09	10,200.00	526.40	4,230.61	4,230.61	0.00	0.00	0.00	
15,000.00	90.00	91.09	10,200.00	524.50	4,330.59	4,330.59	0.00	0.00	0.00	
15,100.00	90.00	91.09	10,200.00	522.59	4,430.58	4,430.58	0.00	0.00	0.00	
15,200.00	90.00	91.09	10,200.00	520.68	4,530.56	4,530.56	0.00	0.00	0.00	
15,300.00	90.00	91.09	10,200.00	518.78	4,630.54	4,630.54	0.00	0.00	0.00	
15,400.00	90.00	91.09	10,200.00	516.87	4,730.52	4,730.52	0.00	0.00	0.00	
15,500.00	90.00	91.09	10,200.00	514.96	4,830.50	4,830.50	0.00	0.00	0.00	
15,600.00	90.00	91.09	10,200.00	513.06	4,930.48	4,930.48	0.00	0.00	0.00	
15,700.00	90.00	91.09	10,200.00	511.15	5,030.47	5,030.47	0.00	0.00	0.00	
15,800.00	90.00	91.09	10,200.00	509.24	5,130.45	5,130.45	0.00	0.00	0.00	
15,900.00	90.00	91.09	10,200.00	507.34	5,230.43	5,230.43	0.00	0.00	0.00	
16,000.00	90.00	91.09	10,200.00	505.43	5,330.41	5,330.41	0.00	0.00	0.00	
16,100.00	90.00	91.09	10,200.00	503.52	5,430.39	5,430.39	0.00	0.00	0.00	
16,200.00	90.00	91.09	10,200.00	501.61	5,530.38	5,530.38	0.00	0.00	0.00	
16,300.00	90.00	91.09	10,200.00	499.71	5,630.36	5,630.36	0.00	0.00	0.00	
16,400.00	90.00	91.09	10,200.00	497.80	5,730.34	5,730.34	0.00	0.00	0.00	
16,500.00	90.00	91.09	10,200.00	495.89	5,830.32	5,830.32	0.00	0.00	0.00	
16,600.00	90.00	91.09	10,200.00	493.99	5,930.30	5,930.30	0.00	0.00	0.00	
16,700.00	90.00	91.09	10,200.00	492.08	6,030.28	6,030.28	0.00	0.00	0.00	
16,800.00	90.00	91.09	10,200.00	490.17	6,130.27	6,130.27	0.00	0.00	0.00	
16,900.00	90.00	91.09	10,200.00	488.27	6,230.25	6,230.25	0.00	0.00	0.00	
17,000.00	90.00	91.09	10,200.00	486.36	6,330.23	6,330.23	0.00	0.00	0.00	
17,100.00	90.00	91.09	10,200.00	484.45	6,430.21	6,430.21	0.00	0.00	0.00	
17,200.00	90.00	91.09	10,200.00	482.54	6,530.19	6,530.19	0.00	0.00	0.00	
17,300.00	90.00	91.09	10,200.00	480.64	6,630.18	6,630.18	0.00	0.00	0.00	
17,400.00	90.00	91.09	10,200.00	478.73	6,730.16	6,730.16	0.00	0.00	0.00	
17,500.00	90.00	91.09	10,200.00	476.82	6,830.14	6,830.14	0.00	0.00	0.00	
17,600.00	90.00	91.09	10,200.00	474.92	6,930.12	6,930.12	0.00	0.00	0.00	
17,700.00	90.00	91.09	10,200.00	473.01	7,030.10	7,030.10	0.00	0.00	0.00	
17,800.00	90.00	91.09	10,200.00	471.10	7,130.08	7,130.08	0.00	0.00	0.00	
17,900.00	90.00	91.09	10,200.00	469.20	7,230.07	7,230.07	0.00	0.00	0.00	
18,000.00	90.00	91.09	10,200.00	467.29	7,330.05	7,330.05	0.00	0.00	0.00	
18,100.00	90.00	91.09	10,200.00	465.38	7,430.03	7,430.03	0.00	0.00	0.00	
18,200.00	90.00	91.09	10,200.00	463.48	7,530.01	7,530.01	0.00	0.00	0.00	
18,300.00	90.00	91.09	10,200.00	461.57	7,629.99	7,629.99	0.00	0.00	0.00	
18,400.00	90.00	91.09	10,200.00	459.66	7,729.98	7,729.98	0.00	0.00	0.00	
18,500.00	90.00	91.09	10,200.00	457.75	7,829.96	7,829.96	0.00	0.00	0.00	
18,600.00	90.00	91.09	10,200.00	455.85	7,929.94	7,929.94	0.00	0.00	0.00	
18,700.00	90.00	91.09	10,200.00	453.94	8,029.92	8,029.92	0.00	0.00	0.00	
18,800.00	90.00	91.09	10,200.00	452.03	8,129.90	8,129.90	0.00	0.00	0.00	
18,900.00	90.00	91.09	10,200.00	450.13	8,229.88	8,229.88	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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)	
19,000.00	90.00	91.09	10,200.00	448.22	8,329.87	8,329.87	0.00	0.00	0.00	
19,100.00	90.00	91.09	10,200.00	446.31	8,429.85	8,429.85	0.00	0.00	0.00	
19,200.00	90.00	91.09	10,200.00	444.41	8,529.83	8,529.83	0.00	0.00	0.00	
19,300.00	90.00	91.09	10,200.00	442.50	8,629.81	8,629.81	0.00	0.00	0.00	
19,400.00	90.00	91.09	10,200.00	440.59	8,729.79	8,729.79	0.00	0.00	0.00	
19,500.00	90.00	91.09	10,200.00	438.68	8,829.78	8,829.78	0.00	0.00	0.00	
19,600.00	90.00	91.09	10,200.00	436.78	8,929.76	8,929.76	0.00	0.00	0.00	
19,700.00	90.00	91.09	10,200.00	434.87	9,029.74	9,029.74	0.00	0.00	0.00	
19,800.00	90.00	91.09	10,200.00	432.96	9,129.72	9,129.72	0.00	0.00	0.00	
19,900.00	90.00	91.09	10,200.00	431.06	9,229.70	9,229.70	0.00	0.00	0.00	
20,000.00	90.00	91.09	10,200.00	429.15	9,329.68	9,329.68	0.00	0.00	0.00	
20,100.00	90.00	91.09	10,200.00	427.24	9,429.67	9,429.67	0.00	0.00	0.00	
20,200.00	90.00	91.09	10,200.00	425.34	9,529.65	9,529.65	0.00	0.00	0.00	
20,300.00	90.00	91.09	10,200.00	423.43	9,629.63	9,629.63	0.00	0.00	0.00	
20,400.00	90.00	91.09	10,200.00	421.52	9,729.61	9,729.61	0.00	0.00	0.00	
20,427.39	90.00	91.09	10,200.00	421.00	9,757.00	9,757.00	0.00	0.00	0.00	
TD at 20427.39										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BRANTLEY FEE 2419 # - hit/miss target - Shape	0.00	0.00	0.00	617.00	-560.00	469,070.00	629,125.00	32.28922770	-104.04924204	
- plan misses target center by 833.24usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
BRANTLEY FEE 2419 # - plan misses target center by 9766.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	421.00	9,757.00	468,874.00	639,442.00	32.28860939	-104.01585724	
- Point										
BRANTLEY FEE 2419 # - plan misses target center by 9666.26usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	423.00	9,657.00	468,876.00	639,342.00	32.28861570	-104.01618082	
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
20,356.61	10,200.00	20" Casing	20	24	



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BRANTLEY FEE 2419 553H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Project:	EDDY COUNTY, N.M. 83	MD Reference:	RKB 30' + 2995' GL @ 3025.00usft
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	BRANTLEY FEE 2419 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 AC		

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
5,989.90	5,970.32	135.68	-101.31	Start 1763.61 hold at 5989.90 MD
7,753.51	7,629.68	614.32	-458.69	Start Drop -2.00
8,743.41	8,600.00	750.00	-560.00	Start 1027.04 hold at 8743.40 MD
9,770.45	9,627.04	750.00	-560.00	Start Build 10.00
10,670.45	10,200.00	660.37	5.90	Start 190.00 hold at 10670.44 MD
10,860.45	10,200.00	630.65	193.56	Start DLS 2.00 TFO -90.00
11,255.81	10,200.00	595.90	587.09	Start 9171.58 hold at 11255.81 MD
20,427.39	10,200.00	421.00	9,757.00	TD at 20427.39

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:** 10 / 08/2024

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
Brantley Fee 2419 553H		L-24-23S-28E	1367 FSL 649 FWL	1200	5000	1000
Brantley Fee 2419 554H		L-24-23S-28E	1347 FSL 649 FWL	1200	5000	1000

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
Brantley Fee 2419 553H		12/10/2024	12/30/2024	1/30/2025	2/15/2025	2/16/2025
Brantley Fee 2419 554H		12/31/2024	1/20/2025	1/30/2025	2/15/2025	2/16/2025

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: 10/8/2024
Phone: 918-986-9080
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval: