

**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 374656

**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 30-015-55656
4. Property Code 336460	5. Property Name BRANTLEY FEE 2419	6. Well No. 554H

**7. Surface Location**

UL - Lot L	Section 24	Township 23S	Range 28E	Lot Idn L	Feet From 1347	N/S Line S	Feet From 649	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot P	Section 19	Township 23S	Range 29E	Lot Idn P	Feet From 660	N/S Line S	Feet From 100	E/W Line E	County Eddy
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**9. Pool Information**

CULEBRA BLUFF;BONE SPRING, SOUTH	15011
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**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 20400	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 1/2/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	500	590	0
Int1	12.25	10.75	45.5	2800	435	0
Int2	9.875	7.625	29.7	9600	875	0
Prod	6.75	5.5	20	20400	1800	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b>  Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Christina Opfer	Approved By: Ward Rikala
Title:	Title: Petroleum Specialist Supervisor
Email Address: christinaO@kfoc.net	Approved Date: 11/4/2024   Expiration Date: 11/4/2026
Date: 10/9/2024   Phone: 918-491-4468	Conditions of Approval Attached

<b>C-102</b> Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>		Revised July 9, 2024
	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal	
		<input type="checkbox"/> Amended Report	
		<input type="checkbox"/> As Drilled	

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025- 30-015-55656</b>	Pool Code 15011	Pool Name Culebra Bluff; Bone Spring, South
Property Code 333758 <b>336460</b>	Property Name <b>BRANTLEY FEE 2419</b>	Well Number <b>#554H</b>
OGRID No. 12361	Operator Name <b>KAISER-FRANCIS OIL COMPANY</b>	Ground Level Elevation <b>2995'</b>
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
L	24	23-S	28-E	-	1347' S	649' W	N 32.2874726	W 104.0474367	EDDY

**Bottom Hole Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	19	23-S	29-E	-	660' S	100' E	N 32.2849782	W 104.0158535	EDDY

Dedicated Acres <b>318.55</b>	Infill or Defining Well <b>INFILL</b>	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
Order Numbers			Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> 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
-	-	-	-	-	--	--	-	-	-

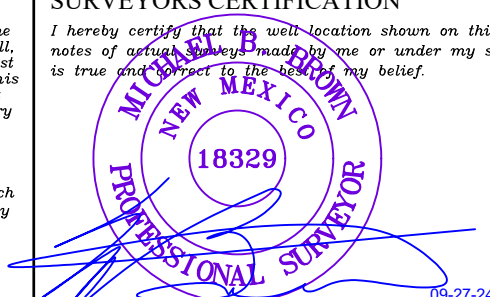
**First Take Point (FTP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	24	23-S	28-E	-	660' S	100' W	N 32.2855986	W 104.0491825	EDDY

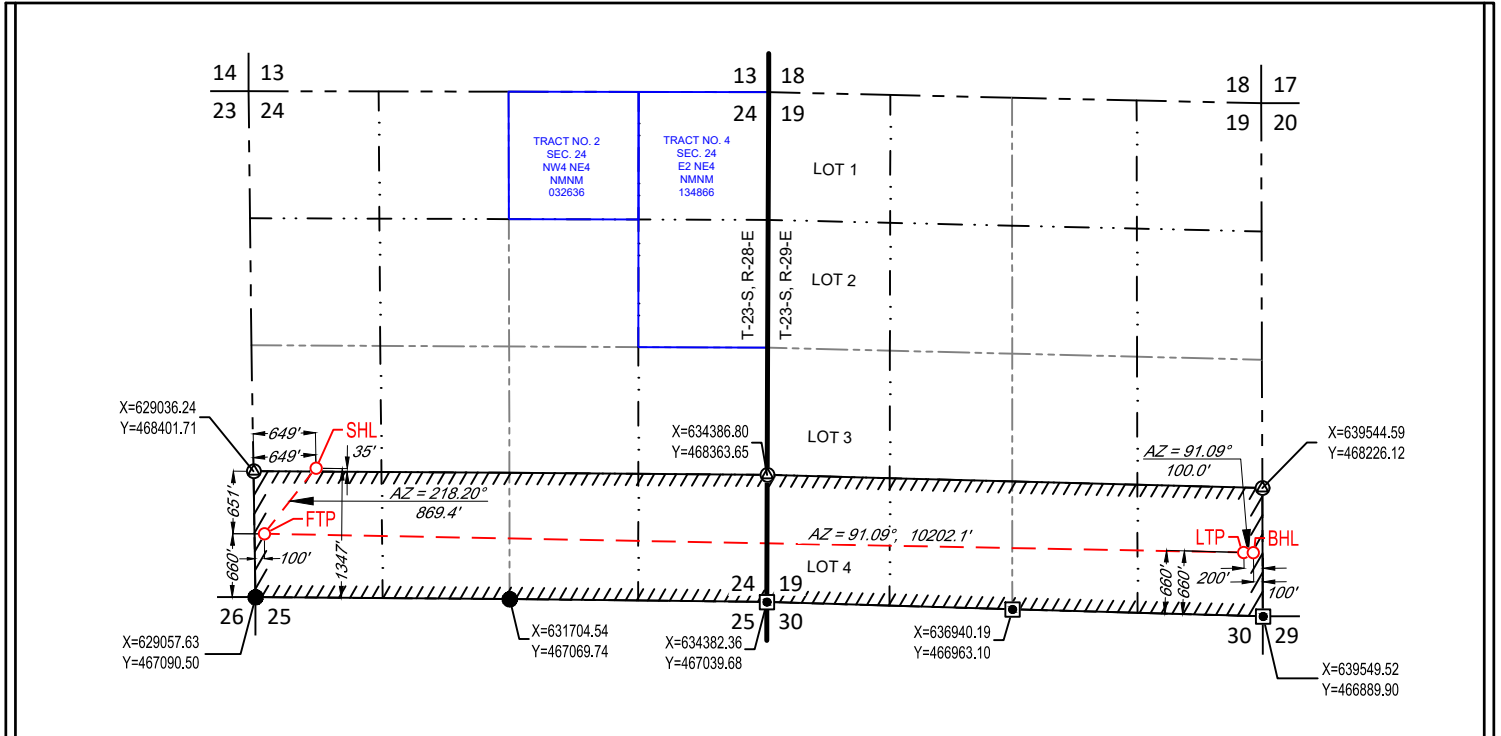
**Last Take Point (LTP)**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	19	23-S	29-E	-	660' S	200' E	N 32.2849843	W 104.0161770	EDDY

Unitized Area or Area of Uniform Intrest	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation <b>2995'</b>
--	--	--

<b>OPERATOR CERTIFICATION</b> <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>		<b>SURVEYORS CERTIFICATION</b> <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 <b>Christina Opfer</b>	Date <b>10/7/2024</b>		
Print Name <b>Christina Opfer</b>	E-mail Address <b>ChristinaO@kfoc.net</b>	Certificate Number	Date of Survey <b>05/15/2024</b>

<p><b>C-102</b></p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals &amp; Natural Resources Department <b>OIL CONSERVATION DIVISION</b></p>	<p>Revised July 9, 2024</p>
<p>Property Name and Well Number</p> <p style="text-align: center;"><b>BRANTLEY FEE 2419 #554H</b></p>		<p>Submittal Type:</p> <p><input type="checkbox"/> Initial Submittal</p> <p><input type="checkbox"/> Amended Report</p> <p><input type="checkbox"/> As Drilled</p>



**SURFACE LOCATION (SHL)**

NEW MEXICO EAST  
NAD 1983  
X=629685 Y=468433  
LAT.: N 32.2874726  
LONG.: W 104.0474367  
1347' FSL 649' FWL

**FIRST TAKE POINT (FTP)**

NEW MEXICO EAST  
NAD 1983  
X=629147 Y=467750  
LAT.: N 32.2855986  
LONG.: W 104.0491825  
660' FSL 100' FWL

**LAST TAKE POINT (LTP)**

NEW MEXICO EAST  
NAD 1983  
X=639347 Y=467555  
LAT.: N 32.2849843  
LONG.: W 104.0161770  
660' FSL 200' FEL

**BOTTOM HOLE LOCATION (BHL)**

NEW MEXICO EAST  
NAD 1983  
X=639447 Y=467553  
LAT.: N 32.2849782  
LONG.: W 104.0158535  
660' FSL 100' FEL

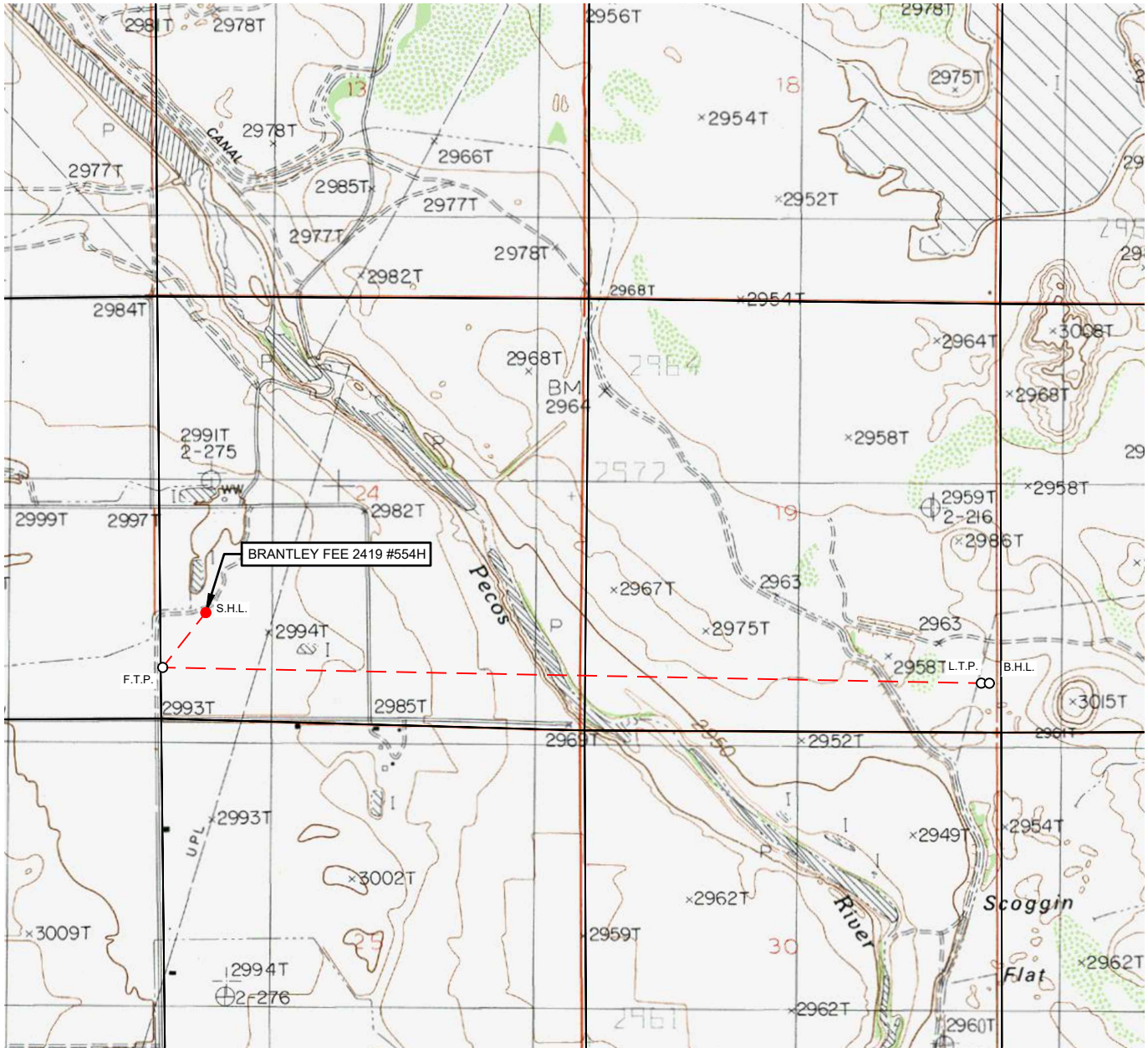


**SURVEYORS CERTIFICATION**

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

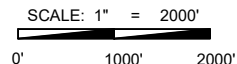


## KAISER-FRANCIS OIL COMPANY

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H

SECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 2995'  
 DESCRIPTION 1347' FSL & 649' FWL

LATITUDE N 32.2874726 LONGITUDE W 104.0474367



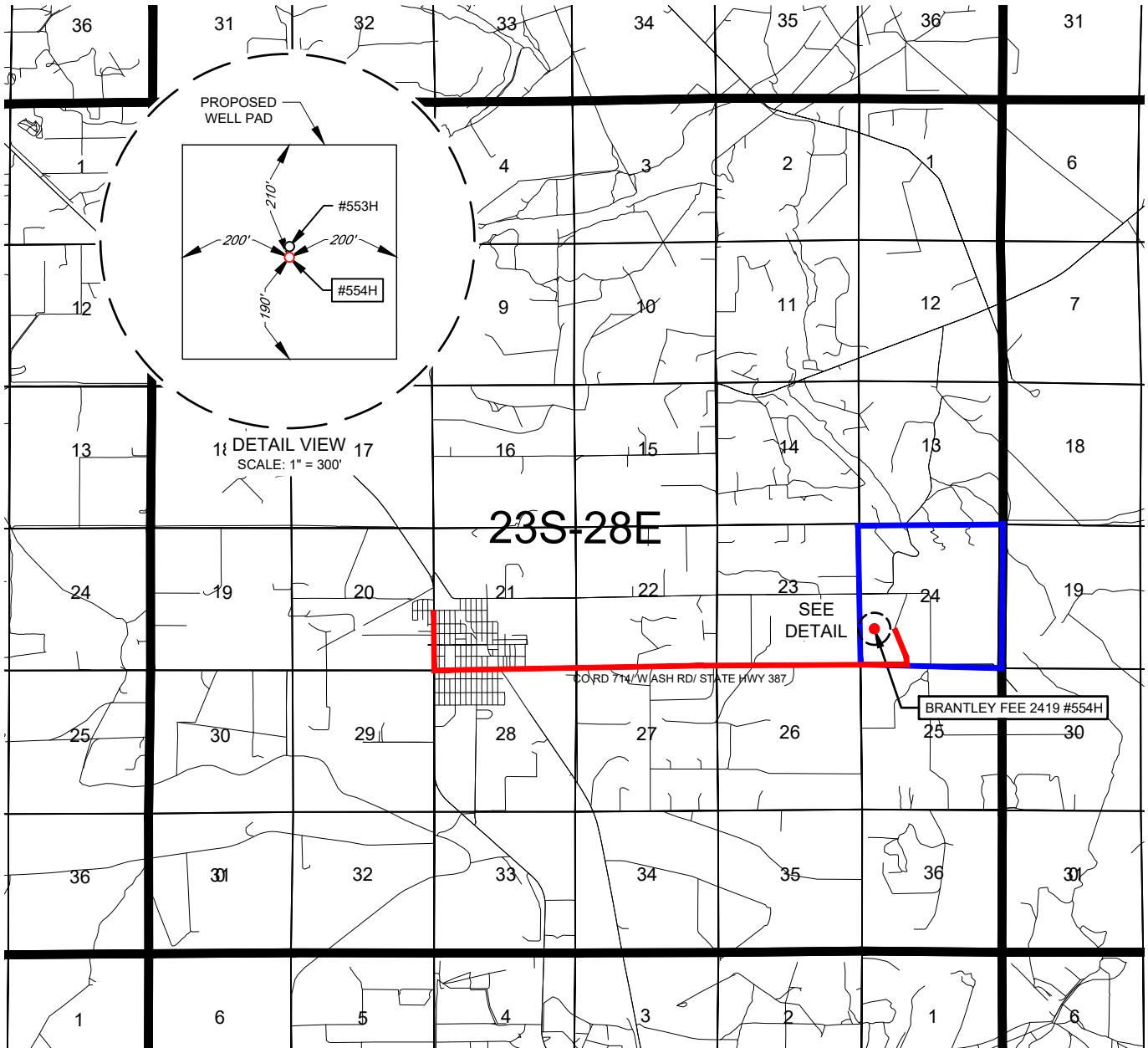
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE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

EXHIBIT 2  
VICINITY MAP



KAISER-FRANCIS  
OIL COMPANY

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H

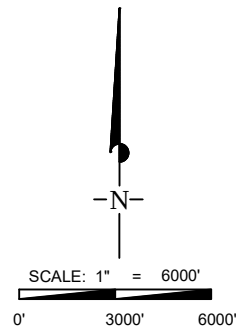
SECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 1347' 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.



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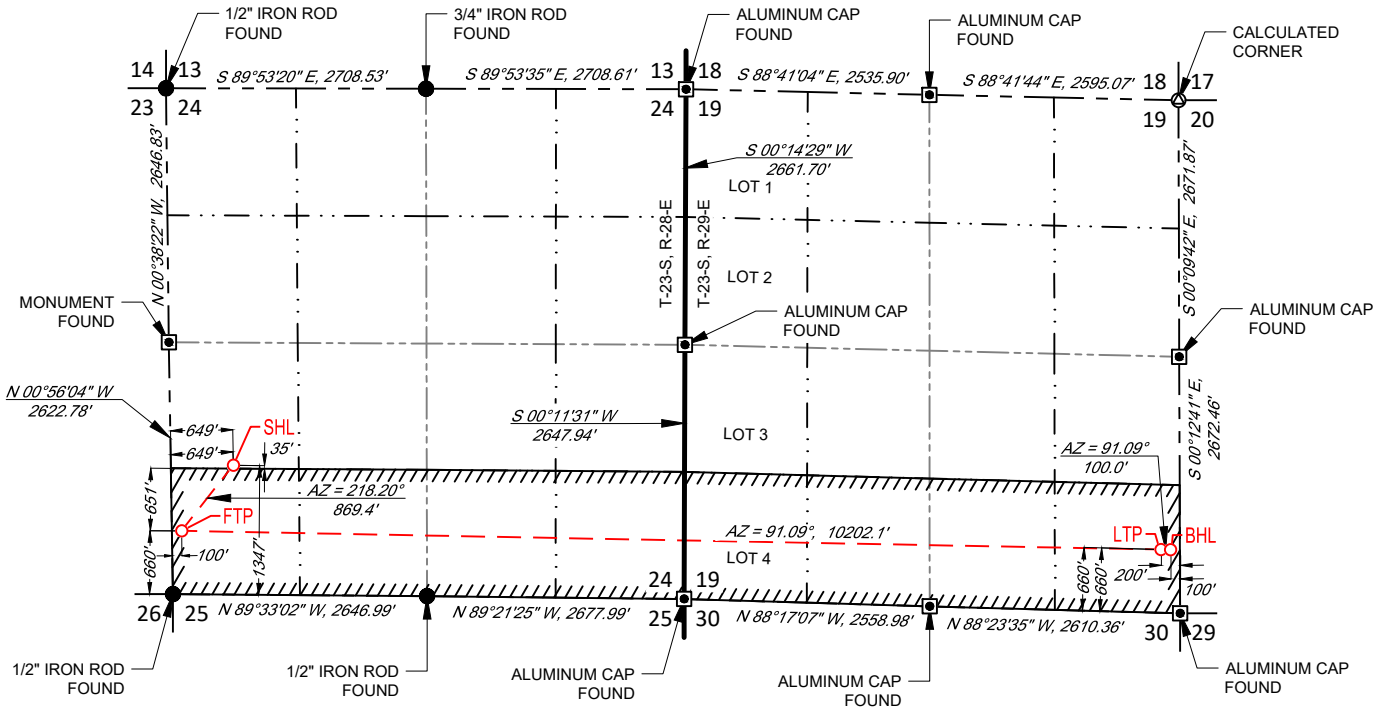
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE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

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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



<b>SURFACE LOCATION (SHL)</b>	<b>FIRST TAKE POINT (FTP)</b>
NEW MEXICO EAST NAD 1983	NEW MEXICO EAST NAD 1983
X=629685 Y=468433	X=629147 Y=467750
LAT.: N 32.2874726	LAT.: N 32.2855986
LONG.: W 104.0474367	LONG.: W 104.0491825
1347' FSL 649' FWL	660' FSL 100' FWL
<b>LAST TAKE POINT (LTP)</b>	<b>BOTTOM HOLE LOCATION (BHL)</b>
NEW MEXICO EAST NAD 1983	NEW MEXICO EAST NAD 1983
X=639347 Y=467555	X=639447 Y=467553
LAT.: N 32.2849843	LAT.: N 32.2849782
LONG.: W 104.0161770	LONG.: W 104.0158535
660' FSL 200' FEL	660' FSL 100' FEL

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H

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

COUNTY EDDY STATE NM

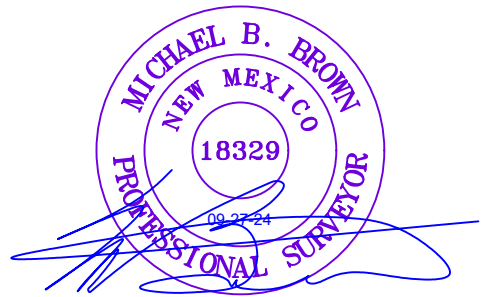
DESCRIPTION 1347' FSL & 649' FWL

**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.



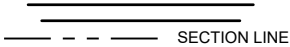
Michael B. Brown, P.S. No. 18329  
 August 27, 2024



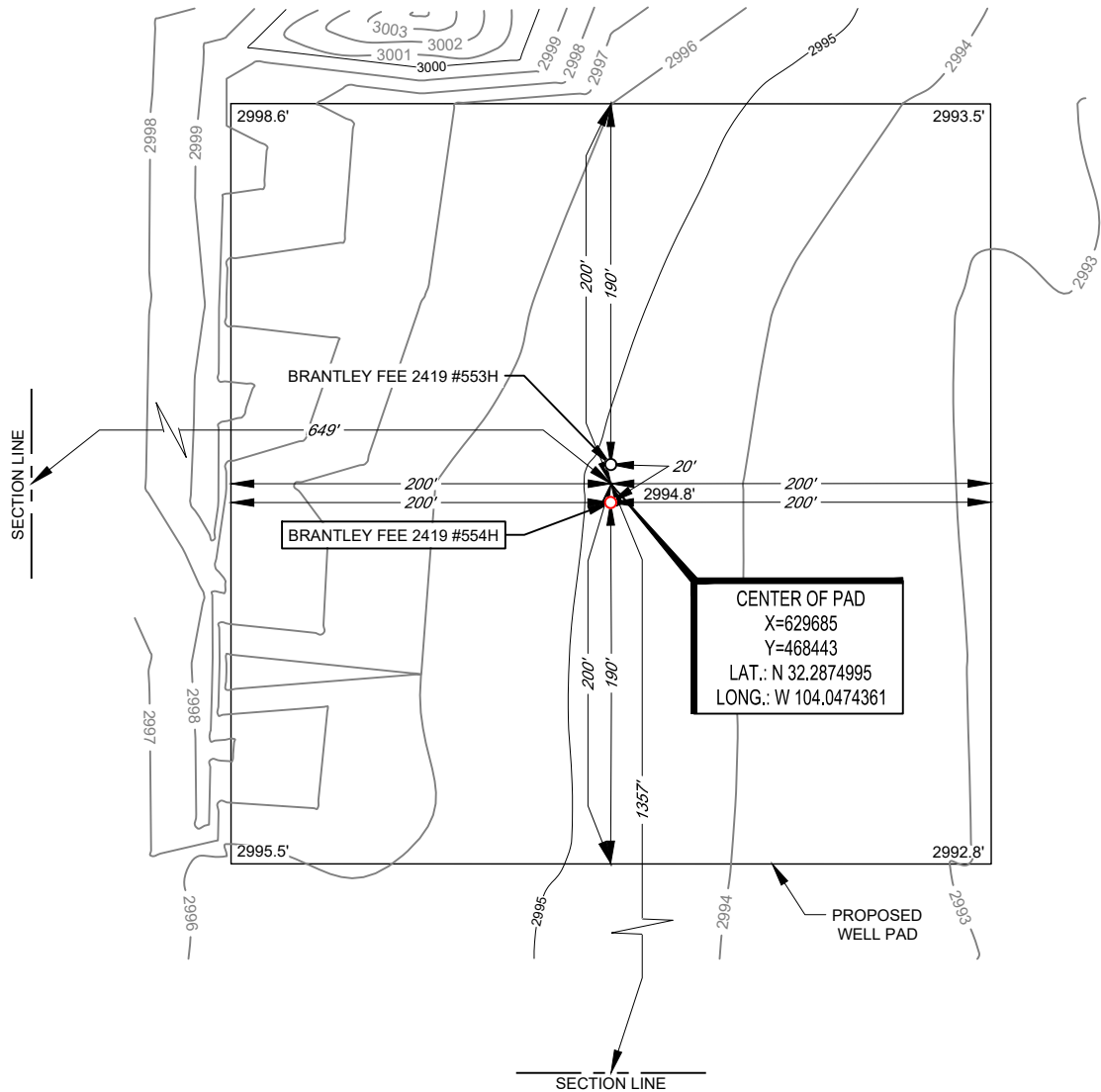
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
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 WWW.TOPOGRAPHIC.COM

# KAISER-FRANCIS OIL COMPANY

## LEGEND



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

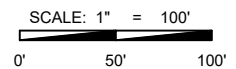


LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H  
#554H LATITUDE N 32.2874726 #554H LONGITUDE W 104.0474367

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.

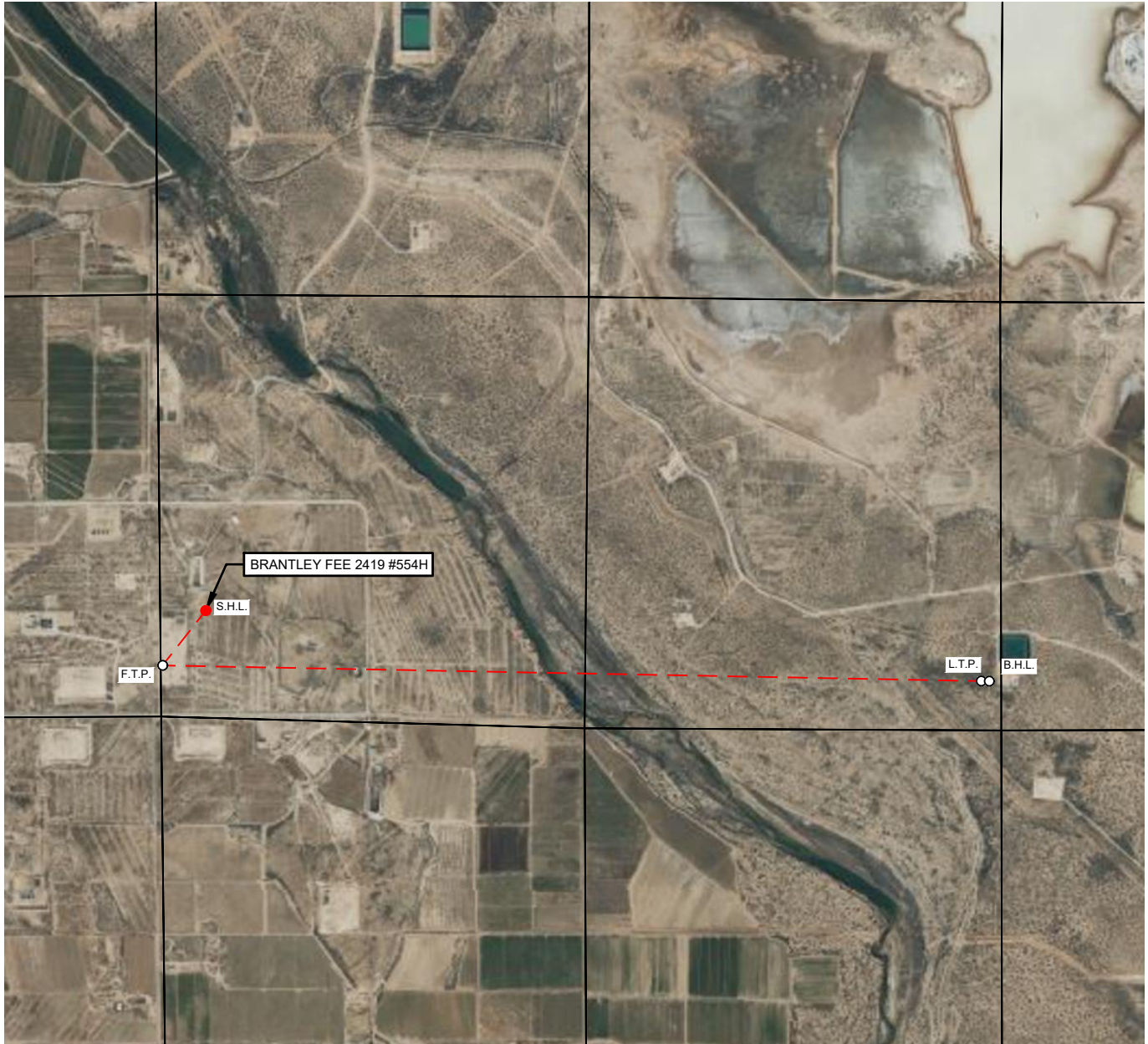
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY KAISER-FRANCIS OIL COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY 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 WINSKOTT 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 COMPANY

LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H

SECTION 24 TWP 23-S RGE 28-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 2995'  
 DESCRIPTION 1347' FSL & 649' FWL

LATITUDE N 32.2874726 LONGITUDE W 104.0474367



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

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

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 WWW.TOPOGRAPHIC.COM



# EXHIBIT 3

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

## KAISER-FRANCIS OIL COMPANY



LEASE NAME & WELL NO.: BRANTLEY FEE 2419 #554H

SCALE: NTS

#554H LATITUDE N 32.2874726

#554H LONGITUDE W 104.0474367

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

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**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

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**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 374656

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: KAISER-FRANCIS OIL CO [12361] PO Box 21468 Tulsa, OK 741211468	API Number: 30-015-55656
	Well: BRANTLEY FEE 2419 #554H

OCD Reviewer	Condition
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.
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 Cement Bond Log (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	Notify the OCD 24 hours prior to casing & cement.



## **KAISER FRANCIS OIL CO.**

**EDDY COUNTY, N.M. 83**

**SEC 24-T23S-R28E**

**BRANTLEY FEE 2419 554H**

**Wellbore #1**

**Plan: Plan 1 AC**

## **Standard Planning Report**

**03 October, 2024**

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1 AC		

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

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

<b>Well</b>	BRANTLEY FEE 2419 554H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	468,433.00 usft	<b>Latitude:</b>	32.28747259
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	629,685.00 usft	<b>Longitude:</b>	-104.04743532
<b>Position Uncertainty</b>		0.50 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	2,995.00 usft
<b>Grid Convergence:</b>		0.15 °				

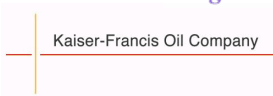
<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM 2023	10/3/2024	6.65	59.92	47,274.20000000

<b>Design</b>	Plan 1 AC			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	90.00

<b>Plan Survey Tool Program</b>	<b>Date</b>	10/3/2024		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	20,404.45 Plan 1 AC (Wellbore #1)	MWD+HRGM OWSG MWD + HRGM	



Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	
5,934.55	18.69	213.82	5,918.06	-125.52	-84.10	2.00	2.00	0.00	213.82	
8,007.76	18.69	213.82	7,881.94	-677.48	-453.90	0.00	0.00	0.00	0.00	
8,942.32	0.00	0.00	8,800.00	-803.00	-538.00	2.00	-2.00	0.00	180.00	
9,769.36	0.00	0.00	9,627.04	-803.00	-538.00	0.00	0.00	0.00	0.00	
10,669.36	90.00	82.30	10,200.00	-726.23	29.79	10.00	10.00	0.00	82.30	
11,109.55	90.00	91.10	10,200.00	-700.93	468.82	2.00	0.00	2.00	90.00	
20,404.45	90.00	91.10	10,200.00	-880.00	9,762.00	0.00	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	
<b>Start Build 2.00</b>										
5,100.00	2.00	213.82	5,099.98	-1.45	-0.97	-0.97	2.00	2.00	0.00	
5,200.00	4.00	213.82	5,199.84	-5.80	-3.88	-3.88	2.00	2.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	213.82	5,299.45	-13.04	-8.74	-8.74	2.00	2.00	0.00
5,400.00	8.00	213.82	5,398.70	-23.16	-15.52	-15.52	2.00	2.00	0.00
5,500.00	10.00	213.82	5,497.47	-36.16	-24.23	-24.23	2.00	2.00	0.00
5,600.00	12.00	213.82	5,595.62	-52.01	-34.85	-34.85	2.00	2.00	0.00
5,700.00	14.00	213.82	5,693.06	-70.70	-47.37	-47.37	2.00	2.00	0.00
5,800.00	16.00	213.82	5,789.64	-92.20	-61.77	-61.77	2.00	2.00	0.00
5,900.00	18.00	213.82	5,885.27	-116.49	-78.04	-78.04	2.00	2.00	0.00
5,934.55	18.69	213.82	5,918.06	-125.52	-84.10	-84.10	2.00	2.00	0.00
<b>Start 2073.21 hold at 5934.55 MD</b>									
6,000.00	18.69	213.82	5,980.06	-142.94	-95.77	-95.77	0.00	0.00	0.00
6,100.00	18.69	213.82	6,074.79	-169.57	-113.61	-113.61	0.00	0.00	0.00
6,200.00	18.69	213.82	6,169.51	-196.19	-131.45	-131.45	0.00	0.00	0.00
6,300.00	18.69	213.82	6,264.24	-222.81	-149.28	-149.28	0.00	0.00	0.00
6,400.00	18.69	213.82	6,358.96	-249.44	-167.12	-167.12	0.00	0.00	0.00
6,500.00	18.69	213.82	6,453.69	-276.06	-184.96	-184.96	0.00	0.00	0.00
6,600.00	18.69	213.82	6,548.42	-302.69	-202.80	-202.80	0.00	0.00	0.00
6,700.00	18.69	213.82	6,643.14	-329.31	-220.63	-220.63	0.00	0.00	0.00
6,800.00	18.69	213.82	6,737.87	-355.93	-238.47	-238.47	0.00	0.00	0.00
6,900.00	18.69	213.82	6,832.59	-382.56	-256.31	-256.31	0.00	0.00	0.00
7,000.00	18.69	213.82	6,927.32	-409.18	-274.14	-274.14	0.00	0.00	0.00
7,100.00	18.69	213.82	7,022.05	-435.80	-291.98	-291.98	0.00	0.00	0.00
7,200.00	18.69	213.82	7,116.77	-462.43	-309.82	-309.82	0.00	0.00	0.00
7,300.00	18.69	213.82	7,211.50	-489.05	-327.66	-327.66	0.00	0.00	0.00
7,400.00	18.69	213.82	7,306.23	-515.67	-345.49	-345.49	0.00	0.00	0.00
7,500.00	18.69	213.82	7,400.95	-542.30	-363.33	-363.33	0.00	0.00	0.00
7,600.00	18.69	213.82	7,495.68	-568.92	-381.17	-381.17	0.00	0.00	0.00
7,700.00	18.69	213.82	7,590.40	-595.54	-399.01	-399.01	0.00	0.00	0.00
7,800.00	18.69	213.82	7,685.13	-622.17	-416.84	-416.84	0.00	0.00	0.00
7,900.00	18.69	213.82	7,779.86	-648.79	-434.68	-434.68	0.00	0.00	0.00
8,007.76	18.69	213.82	7,881.94	-677.48	-453.90	-453.90	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
8,100.00	16.85	213.82	7,969.77	-700.86	-469.57	-469.57	2.00	-2.00	0.00
8,200.00	14.85	213.82	8,065.96	-723.55	-484.77	-484.77	2.00	-2.00	0.00
8,300.00	12.85	213.82	8,163.05	-743.43	-498.09	-498.09	2.00	-2.00	0.00
8,400.00	10.85	213.82	8,260.92	-760.48	-509.51	-509.51	2.00	-2.00	0.00
8,500.00	8.85	213.82	8,359.44	-774.69	-519.03	-519.03	2.00	-2.00	0.00
8,600.00	6.85	213.82	8,458.50	-786.03	-526.63	-526.63	2.00	-2.00	0.00
8,700.00	4.85	213.82	8,557.97	-794.49	-532.30	-532.30	2.00	-2.00	0.00
8,800.00	2.85	213.82	8,657.74	-800.06	-536.03	-536.03	2.00	-2.00	0.00
8,900.00	0.85	213.82	8,757.69	-802.74	-537.83	-537.83	2.00	-2.00	0.00
8,942.32	0.00	0.00	8,800.00	-803.00	-538.00	-538.00	2.00	-2.00	345.44
<b>Start 827.04 hold at 8942.32 MD</b>									
9,000.00	0.00	0.00	8,857.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,100.00	0.00	0.00	8,957.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,057.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,157.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,257.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,357.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,457.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,557.68	-803.00	-538.00	-538.00	0.00	0.00	0.00
9,769.36	0.00	0.00	9,627.04	-803.00	-538.00	-538.00	0.00	0.00	0.00
<b>Start Build 10.00</b>									
9,800.00	3.06	82.30	9,657.67	-802.89	-537.19	-537.19	10.00	10.00	0.00



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
9,850.00	8.06	82.30	9,707.42	-802.24	-532.39	-532.39	10.00	10.00	0.00
9,900.00	13.06	82.30	9,756.55	-801.01	-523.30	-523.30	10.00	10.00	0.00
9,950.00	18.06	82.30	9,804.71	-799.22	-510.01	-510.01	10.00	10.00	0.00
10,000.00	23.06	82.30	9,851.51	-796.86	-492.61	-492.61	10.00	10.00	0.00
10,050.00	28.06	82.30	9,896.60	-793.97	-471.24	-471.24	10.00	10.00	0.00
10,100.00	33.06	82.30	9,939.64	-790.57	-446.05	-446.05	10.00	10.00	0.00
10,150.00	38.06	82.30	9,980.30	-786.67	-417.24	-417.24	10.00	10.00	0.00
10,200.00	43.06	82.30	10,018.27	-782.32	-385.03	-385.03	10.00	10.00	0.00
10,250.00	48.06	82.30	10,053.26	-777.54	-349.66	-349.66	10.00	10.00	0.00
10,300.00	53.06	82.30	10,085.01	-772.36	-311.40	-311.40	10.00	10.00	0.00
10,350.00	58.06	82.30	10,113.28	-766.84	-270.55	-270.55	10.00	10.00	0.00
10,400.00	63.06	82.30	10,137.84	-761.01	-227.41	-227.41	10.00	10.00	0.00
10,450.00	68.06	82.30	10,158.52	-754.91	-182.32	-182.32	10.00	10.00	0.00
10,500.00	73.06	82.30	10,175.15	-748.59	-135.60	-135.60	10.00	10.00	0.00
10,550.00	78.06	82.30	10,187.61	-742.11	-87.63	-87.63	10.00	10.00	0.00
10,600.00	83.06	82.30	10,195.81	-735.50	-38.77	-38.77	10.00	10.00	0.00
10,650.00	88.06	82.30	10,199.67	-728.82	10.61	10.61	10.00	10.00	0.00
10,669.36	90.00	82.30	10,200.00	-726.23	29.79	29.79	10.00	10.00	0.00
<b>Start DLS 2.00 TFO 90.00</b>									
10,700.00	90.00	82.91	10,200.00	-722.29	60.18	60.18	2.00	0.00	2.00
10,800.00	90.00	84.91	10,200.00	-711.68	159.61	159.61	2.00	0.00	2.00
10,900.00	90.00	86.91	10,200.00	-704.56	259.35	259.35	2.00	0.00	2.00
11,000.00	90.00	88.91	10,200.00	-700.92	359.28	359.28	2.00	0.00	2.00
11,109.55	90.00	91.10	10,200.00	-700.93	468.82	468.82	2.00	0.00	2.00
<b>Start 9294.90 hold at 11109.55 MD</b>									
11,200.00	90.00	91.10	10,200.00	-702.67	559.26	559.26	0.00	0.00	0.00
11,300.00	90.00	91.10	10,200.00	-704.60	659.24	659.24	0.00	0.00	0.00
11,400.00	90.00	91.10	10,200.00	-706.53	759.22	759.22	0.00	0.00	0.00
11,500.00	90.00	91.10	10,200.00	-708.45	859.20	859.20	0.00	0.00	0.00
11,600.00	90.00	91.10	10,200.00	-710.38	959.18	959.18	0.00	0.00	0.00
11,700.00	90.00	91.10	10,200.00	-712.31	1,059.16	1,059.16	0.00	0.00	0.00
11,800.00	90.00	91.10	10,200.00	-714.23	1,159.15	1,159.15	0.00	0.00	0.00
11,900.00	90.00	91.10	10,200.00	-716.16	1,259.13	1,259.13	0.00	0.00	0.00
12,000.00	90.00	91.10	10,200.00	-718.09	1,359.11	1,359.11	0.00	0.00	0.00
12,100.00	90.00	91.10	10,200.00	-720.01	1,459.09	1,459.09	0.00	0.00	0.00
12,200.00	90.00	91.10	10,200.00	-721.94	1,559.07	1,559.07	0.00	0.00	0.00
12,300.00	90.00	91.10	10,200.00	-723.87	1,659.05	1,659.05	0.00	0.00	0.00
12,400.00	90.00	91.10	10,200.00	-725.79	1,759.03	1,759.03	0.00	0.00	0.00
12,500.00	90.00	91.10	10,200.00	-727.72	1,859.02	1,859.02	0.00	0.00	0.00
12,600.00	90.00	91.10	10,200.00	-729.65	1,959.00	1,959.00	0.00	0.00	0.00
12,700.00	90.00	91.10	10,200.00	-731.57	2,058.98	2,058.98	0.00	0.00	0.00
12,800.00	90.00	91.10	10,200.00	-733.50	2,158.96	2,158.96	0.00	0.00	0.00
12,900.00	90.00	91.10	10,200.00	-735.43	2,258.94	2,258.94	0.00	0.00	0.00
13,000.00	90.00	91.10	10,200.00	-737.35	2,358.92	2,358.92	0.00	0.00	0.00
13,100.00	90.00	91.10	10,200.00	-739.28	2,458.90	2,458.90	0.00	0.00	0.00
13,200.00	90.00	91.10	10,200.00	-741.20	2,558.89	2,558.89	0.00	0.00	0.00
13,300.00	90.00	91.10	10,200.00	-743.13	2,658.87	2,658.87	0.00	0.00	0.00
13,400.00	90.00	91.10	10,200.00	-745.06	2,758.85	2,758.85	0.00	0.00	0.00
13,500.00	90.00	91.10	10,200.00	-746.98	2,858.83	2,858.83	0.00	0.00	0.00
13,600.00	90.00	91.10	10,200.00	-748.91	2,958.81	2,958.81	0.00	0.00	0.00
13,700.00	90.00	91.10	10,200.00	-750.84	3,058.79	3,058.79	0.00	0.00	0.00
13,800.00	90.00	91.10	10,200.00	-752.76	3,158.77	3,158.77	0.00	0.00	0.00
13,900.00	90.00	91.10	10,200.00	-754.69	3,258.76	3,258.76	0.00	0.00	0.00
14,000.00	90.00	91.10	10,200.00	-756.62	3,358.74	3,358.74	0.00	0.00	0.00





Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
14,100.00	90.00	91.10	10,200.00	-758.54	3,458.72	3,458.72	0.00	0.00	0.00	
14,200.00	90.00	91.10	10,200.00	-760.47	3,558.70	3,558.70	0.00	0.00	0.00	
14,300.00	90.00	91.10	10,200.00	-762.40	3,658.68	3,658.68	0.00	0.00	0.00	
14,400.00	90.00	91.10	10,200.00	-764.32	3,758.66	3,758.66	0.00	0.00	0.00	
14,500.00	90.00	91.10	10,200.00	-766.25	3,858.64	3,858.64	0.00	0.00	0.00	
14,600.00	90.00	91.10	10,200.00	-768.18	3,958.63	3,958.63	0.00	0.00	0.00	
14,700.00	90.00	91.10	10,200.00	-770.10	4,058.61	4,058.61	0.00	0.00	0.00	
14,800.00	90.00	91.10	10,200.00	-772.03	4,158.59	4,158.59	0.00	0.00	0.00	
14,900.00	90.00	91.10	10,200.00	-773.96	4,258.57	4,258.57	0.00	0.00	0.00	
15,000.00	90.00	91.10	10,200.00	-775.88	4,358.55	4,358.55	0.00	0.00	0.00	
15,100.00	90.00	91.10	10,200.00	-777.81	4,458.53	4,458.53	0.00	0.00	0.00	
15,200.00	90.00	91.10	10,200.00	-779.74	4,558.52	4,558.52	0.00	0.00	0.00	
15,300.00	90.00	91.10	10,200.00	-781.66	4,658.50	4,658.50	0.00	0.00	0.00	
15,400.00	90.00	91.10	10,200.00	-783.59	4,758.48	4,758.48	0.00	0.00	0.00	
15,500.00	90.00	91.10	10,200.00	-785.51	4,858.46	4,858.46	0.00	0.00	0.00	
15,600.00	90.00	91.10	10,200.00	-787.44	4,958.44	4,958.44	0.00	0.00	0.00	
15,700.00	90.00	91.10	10,200.00	-789.37	5,058.42	5,058.42	0.00	0.00	0.00	
15,800.00	90.00	91.10	10,200.00	-791.29	5,158.40	5,158.40	0.00	0.00	0.00	
15,900.00	90.00	91.10	10,200.00	-793.22	5,258.39	5,258.39	0.00	0.00	0.00	
16,000.00	90.00	91.10	10,200.00	-795.15	5,358.37	5,358.37	0.00	0.00	0.00	
16,100.00	90.00	91.10	10,200.00	-797.07	5,458.35	5,458.35	0.00	0.00	0.00	
16,200.00	90.00	91.10	10,200.00	-799.00	5,558.33	5,558.33	0.00	0.00	0.00	
16,300.00	90.00	91.10	10,200.00	-800.93	5,658.31	5,658.31	0.00	0.00	0.00	
16,400.00	90.00	91.10	10,200.00	-802.85	5,758.29	5,758.29	0.00	0.00	0.00	
16,500.00	90.00	91.10	10,200.00	-804.78	5,858.27	5,858.27	0.00	0.00	0.00	
16,600.00	90.00	91.10	10,200.00	-806.71	5,958.26	5,958.26	0.00	0.00	0.00	
16,700.00	90.00	91.10	10,200.00	-808.63	6,058.24	6,058.24	0.00	0.00	0.00	
16,800.00	90.00	91.10	10,200.00	-810.56	6,158.22	6,158.22	0.00	0.00	0.00	
16,900.00	90.00	91.10	10,200.00	-812.49	6,258.20	6,258.20	0.00	0.00	0.00	
17,000.00	90.00	91.10	10,200.00	-814.41	6,358.18	6,358.18	0.00	0.00	0.00	
17,100.00	90.00	91.10	10,200.00	-816.34	6,458.16	6,458.16	0.00	0.00	0.00	
17,200.00	90.00	91.10	10,200.00	-818.27	6,558.14	6,558.14	0.00	0.00	0.00	
17,300.00	90.00	91.10	10,200.00	-820.19	6,658.13	6,658.13	0.00	0.00	0.00	
17,400.00	90.00	91.10	10,200.00	-822.12	6,758.11	6,758.11	0.00	0.00	0.00	
17,500.00	90.00	91.10	10,200.00	-824.05	6,858.09	6,858.09	0.00	0.00	0.00	
17,600.00	90.00	91.10	10,200.00	-825.97	6,958.07	6,958.07	0.00	0.00	0.00	
17,700.00	90.00	91.10	10,200.00	-827.90	7,058.05	7,058.05	0.00	0.00	0.00	
17,800.00	90.00	91.10	10,200.00	-829.82	7,158.03	7,158.03	0.00	0.00	0.00	
17,900.00	90.00	91.10	10,200.00	-831.75	7,258.01	7,258.01	0.00	0.00	0.00	
18,000.00	90.00	91.10	10,200.00	-833.68	7,358.00	7,358.00	0.00	0.00	0.00	
18,100.00	90.00	91.10	10,200.00	-835.60	7,457.98	7,457.98	0.00	0.00	0.00	
18,200.00	90.00	91.10	10,200.00	-837.53	7,557.96	7,557.96	0.00	0.00	0.00	
18,300.00	90.00	91.10	10,200.00	-839.46	7,657.94	7,657.94	0.00	0.00	0.00	
18,400.00	90.00	91.10	10,200.00	-841.38	7,757.92	7,757.92	0.00	0.00	0.00	
18,500.00	90.00	91.10	10,200.00	-843.31	7,857.90	7,857.90	0.00	0.00	0.00	
18,600.00	90.00	91.10	10,200.00	-845.24	7,957.88	7,957.88	0.00	0.00	0.00	
18,700.00	90.00	91.10	10,200.00	-847.16	8,057.87	8,057.87	0.00	0.00	0.00	
18,800.00	90.00	91.10	10,200.00	-849.09	8,157.85	8,157.85	0.00	0.00	0.00	
18,900.00	90.00	91.10	10,200.00	-851.02	8,257.83	8,257.83	0.00	0.00	0.00	
19,000.00	90.00	91.10	10,200.00	-852.94	8,357.81	8,357.81	0.00	0.00	0.00	
19,100.00	90.00	91.10	10,200.00	-854.87	8,457.79	8,457.79	0.00	0.00	0.00	
19,200.00	90.00	91.10	10,200.00	-856.80	8,557.77	8,557.77	0.00	0.00	0.00	
19,300.00	90.00	91.10	10,200.00	-858.72	8,657.75	8,657.75	0.00	0.00	0.00	
19,400.00	90.00	91.10	10,200.00	-860.65	8,757.74	8,757.74	0.00	0.00	0.00	



Planning Report

Kaiser-Francis Oil Company

<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BRANTLEY FEE 2419 554H
<b>Company:</b>	KAISER FRANCIS OIL CO.	<b>TVD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Project:</b>	EDDY COUNTY, N.M. 83	<b>MD Reference:</b>	RKB 30' + 2995' GL @ 3025.00usft
<b>Site:</b>	SEC 24-T23S-R28E	<b>North Reference:</b>	Grid
<b>Well:</b>	BRANTLEY FEE 2419 554H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
19,500.00	90.00	91.10	10,200.00	-862.58	8,857.72	8,857.72	0.00	0.00	0.00	
19,600.00	90.00	91.10	10,200.00	-864.50	8,957.70	8,957.70	0.00	0.00	0.00	
19,700.00	90.00	91.10	10,200.00	-866.43	9,057.68	9,057.68	0.00	0.00	0.00	
19,800.00	90.00	91.10	10,200.00	-868.36	9,157.66	9,157.66	0.00	0.00	0.00	
19,900.00	90.00	91.10	10,200.00	-870.28	9,257.64	9,257.64	0.00	0.00	0.00	
20,000.00	90.00	91.10	10,200.00	-872.21	9,357.62	9,357.62	0.00	0.00	0.00	
20,100.00	90.00	91.10	10,200.00	-874.13	9,457.61	9,457.61	0.00	0.00	0.00	
20,200.00	90.00	91.10	10,200.00	-876.06	9,557.59	9,557.59	0.00	0.00	0.00	
20,300.00	90.00	91.10	10,200.00	-877.99	9,657.57	9,657.57	0.00	0.00	0.00	
20,404.45	90.00	91.10	10,200.00	-880.00	9,762.00	9,762.00	0.00	0.00	0.00	
<b>TD at 20404.45</b>										

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 5 - hit/miss target - Shape	0.00	0.00	0.00	-683.00	-538.00	467,750.00	629,147.00	32.28559906	-104.04918216	
- plan misses target center by 869.44usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
BRANTLEY FEE 2419 5 - hit/miss target - Shape	0.00	0.00	0.00	-878.00	9,662.00	467,555.00	639,347.00	32.28498445	-104.01617728	
- plan misses target center by 9701.81usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
BRANTLEY FEE 2419 5 - hit/miss target - Shape	0.00	0.00	0.00	-880.00	9,762.00	467,553.00	639,447.00	32.28497814	-104.01585371	
- plan misses target center by 9801.58usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
20,316.32	10,200.00	20" Casing	20	24		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
5,000.00	5,000.00	0.00	0.00	Start Build 2.00	
5,934.55	5,918.06	-125.52	-84.10	Start 2073.21 hold at 5934.55 MD	
8,007.76	7,881.94	-677.48	-453.90	Start Drop -2.00	
8,942.32	8,800.00	-803.00	-538.00	Start 827.04 hold at 8942.32 MD	
9,769.36	9,627.04	-803.00	-538.00	Start Build 10.00	
10,669.36	10,200.00	-726.23	29.79	Start DLS 2.00 TFO 90.00	
11,109.55	10,200.00	-700.93	468.82	Start 9294.90 hold at 11109.55 MD	
20,404.45	10,200.00	-880.00	9,762.00	TD at 20404.45	

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: <b>Curt Jones</b>
Printed Name: Curt Jones
Title: Drilling Engineer
E-mail Address: curtj@kfoc.net
Date: 10/8/2024
Phone: 918-986-9080
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval: