

CASE NO. 22975

**APPLICATION OF KAISER-FRANCIS OIL COMPANY
FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO**

EXHIBITS

1. Application and Proposed Notice
2. Landman's Affidavit
- 3.1 and 3.2. Geologist's Affidavits
4. Affidavit of Notice
5. Pooling Checklist

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

**APPLICATION OF KAISER-FRANCIS OIL
COMPANY FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.**

Case No. 22975

APPLICATION

Kaiser-Francis Oil Company applies for an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the N/2N/2 of Section 24, Township 23 South, Range 28 East, N.M.P.M. and Lot 1, NE/4NW/4, and N/2NE/4 (the N/2N/2) of Section 19, Township 23 South, Range 29 East, N.M.P.M., and in support thereof, states:

1. Applicant is an interest owner in the N/2N/2 of Section 24 and the N/2N/2 of Section 19, and has the right to drill a well or wells thereon.

2. Applicant proposes to drill the Mosaic Fed. 2419 1BS Well No. 1H and the Mosaic Fed. 2419 2BS Well No. 1H, and to dedicate the N/2N/2 of Section 24 and the N/2N/2 of Section 19 to the well. The wells have first take points in the NW/4NW/4 of Section 24 and last take points in the NE/4NE/4 of Section 19.

3. Applicant has in good faith sought to obtain the voluntary joinder of all other mineral interest owners in the Bone Spring formation underlying the N/2N/2 of Section 24 and the N/2N/2 of Section 19 for the purposes set forth herein.

4. Although applicant attempted to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the wells or to otherwise commit their interests to the well, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all uncommitted mineral interest owners in the Bone

EXHIBIT /

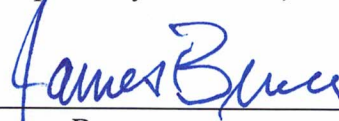
Spring formation in the N/2N/2 of Section 24 and the N/2N/2 of Section 19, pursuant to NMSA 1978 §70-2-17.

5. The pooling of all mineral interest owners in the Bone Spring formation underlying the N/2N/2 of Section 24 and the N/2N/2 of Section 19 will prevent the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interest owners in the Bone Spring formation underlying the N/2N/2 of Section 24 and the N/2N/2 of Section 19;
- B. Designating applicant as operator of the wells;
- C. Considering the cost of drilling and completing the wells, and allocating the cost thereof among the well's working interest owners;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Setting a 200% charge for the risk involved in drilling, completing, and equipping the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,



James Bruce
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043

Attorney for Kaiser-Francis Oil Company

Application of Kaiser-Francis Oil Company for compulsory pooling, Eddy County, New Mexico. Kaiser-Francis Oil Company seeks an order pooling all uncommitted mineral interest owners in the Bone Spring formation in a horizontal spacing unit underlying the N/2N/2 of Section 24, Township 23 South, Range 28 East, NMPM and Lot 1, NE/4NW/4, and N/2NE/4 (the N/2N/2) of Section 19, Township 23 South, Range 29 East, NMPM. The unit will be dedicated to the Mosaic Fed. 2419 1BS Well No. 1H and the Mosaic Fed. 2419 2BS Well No. 1H, with first take points in the NW/4NW/4 of Section 24 and last take points in the NE/4NE/4 of Section 19. Also to be considered will be the cost of drilling, completing, and equipping the wells and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a 200% charge for the risk involved in drilling, completing, and equipping the wells. The unit is located 4 miles southwest of Malaga, New Mexico.

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:**

**APPLICATION OF KAISER-FRANCIS OIL
COMPANY COMPULSORY POOLING, EDDY
COUNTY, NEW MEXICO.**

Case No. 22975

VERIFIED STATEMENT OF BRENDON KUSHNERICK

Brendon Kushnerick, being duly sworn upon his oath, deposes and states:

1. I am a landman for Kaiser-Francis Oil Company (“KFOC”), and have personal knowledge of the matters stated herein. I have been qualified by the Division as an expert petroleum landman.

2. The following information is submitted in support of the compulsory pooling application filed herein:

(a) The purpose of this application is to force pool working interest owners into the Bone Spring horizontal spacing unit described below, and in wells to be drilled in the unit.

(b) No opposition is expected because the interest owners being pooled have been contacted regarding the proposed well, but have failed or refused to voluntarily commit their interests to the well.

(c) A plat outlining the unit being pooled is attached hereto as Attachment A. KFOC seeks an order pooling the Bone Spring formation underlying a horizontal spacing unit comprised of the N/2 N/2 of Section 24, Township 23 South, Range 28 East and the N/2 N/2 of Section 19, Township 23 South Range 29 East, NMPM, containing 318.28 acres.

(i) Pool Code: 15011 Pool Name: Culebra Bluff; Bone Springs, South, to be dedicated to the Mosaic Fed 2419 1BS 1H. The well is a horizontal well with a first take point in NW/4 NW/4 of Section 24 and final take point in NE/4 NE/4 of Section 19.

SHL: 1,075’ FNL and 186’ FWL of Section 24-23S-28E

BHL: 660’ FNL and 100’ FEL of Section 19-23S-29E

17,750’ MD / 7,450’ TVD

EXHIBIT

2

(ii) Pool Code: 15011 Pool Name: Culebra Bluff; Bone Springs, South, to be dedicated to the Mosaic Fed 2419 2BS 1H. The well is a horizontal well with a first take point in NW/4 NW/4 of Section 24 and final take point in NE/4 NE/4 of Section 19.

SHL: 1,155' FNL and 186' FWL of Section 24-23S-28E

BHL: 660' FNL and 100' FEL of Section 19-23S-29E

19,200' MD / 8,900' TVD

A C-102 for each well is attached as Attachment B.

- (d) There is no depth severance in the Bone Spring formation.
- (d) The party being pooled and their interests are set forth in Attachment C. Their current and correct address are also set forth.
- (e) There were no unlocatable interest owners.
- (f) Attachment D contains a summary of contacts or attempted contacts with the interest owners, together with copies of the proposal letters sent to the interest owners.
- (g) KFOC has made a good faith effort to obtain the voluntary joinder of the working interest owners in the proposed wells.
- (h) KFOC has the right to pool the overriding royalty owners in the well unit.
- (i) Attachment E contains the Authorizations for Expenditure for the proposed well. The estimated cost of the well set forth therein is fair and reasonable, and are comparable to the costs of other wells of similar depth and length drilled in this area of Eddy County.
- (j) KFOC requests overhead and administrative rates of \$8,000.00/month for a drilling well and \$800.00/month for a producing well. These rates are fair, and are comparable to the rates charged by other operators for wells of this type in this portion of Lea County. They are also the rates set forth in the Joint Operating Agreement for the well unit. KFOC requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.
- (k) KFOC requests that the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.
- (l) KFOC requests that it be designated operator of the well.
- (m) The attachments to this affidavit were prepared by me, or compiled from company business records.
- (n) The granting of this application is in the interests of conservation and the prevention of waste.

VERIFICATION

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

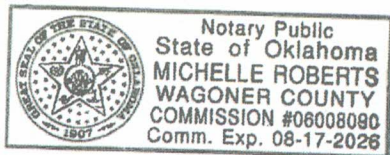
Brendon Kushnerick, being duly sworn upon his oath, deposes and states that: He is a landman for Kaiser-Francis Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

B. Kushnerick
Brendon Kushnerick

SUBSCRIBED AND SWORN TO before me this 19th day of August, 2022 by Brendon Kushnerick.

My Commission Expires: 8-17-2026

Michelle Roberts
Notary Public



KANSAS FRACTIONAL OIL COMPANY

Township 23 South, Range 29 East

Township 23 South, Range 28 East

Tract 1 Fee Acreage	Tract 2 Fee Acreage	Tract 3 N11M132636	Tract 4 N11M134866	Tract 5 Fee Acreage
Section 24				
Section 19				



Fee Acreage

Federal Lease

Mosaic Fed 2419 1BS 1H & 2BS 1H
N/2 N/2 Sec 24 23S-28E & N/2 N/2 Sec 19 23S-29E
Horizontal Spacing Unit

ATTACHMENT

A

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 15011	³ Pool Name Culebra Bluff; Bone Spring Santa
⁴ Property Code	⁵ Property Name MOSAIC FED 2419 1BS	
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁶ Well Number 1H ⁹ Elevation 2986.6

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	23 S	28 E		1075	NORTH	186	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	23 S	29 E		660	NORTH	100	EAST	EDDY

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

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

Signature _____ Date _____
Printed Name _____
E-mail Address _____

18 SURVEYOR 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.

AUGUST 23, 2022
Date of Survey _____
Signature and Seal of Professional Surveyor:
Certificate Number: WILLIAM F. JARAMILLA, License No. 12797, State of New Mexico Professional Surveyor No. 6880D

ATTACHMENT **B**

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 15011	³ Pool Name Culebra Bluff; Bone Spring, South
⁴ Property Code	⁵ Property Name MOSAIC FED 2419 2BS	
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 2986.6

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	23 S	28 E		1155	NORTH	186	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	23 S	29 E		660	NORTH	100	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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

Signature _____ Date _____
Printed Name _____
E-mail Address _____

18 SURVEYOR 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.

AUGUST 23, 2022
Date of Survey _____
Signature and Seal of Professional Surveyor:
Certificate Number: 12797

17 OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

18 SURVEYOR 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.

AUGUST 23, 2022

Date of Survey _____

Signature and Seal of Professional Surveyor:
Certificate Number: 12797

Pooling Respondent list for Pooling of the N/2 N/2 of Section 24-23S-28E and the N/2 N/2 of Section 19-23S-29E; Eddy County, New Mexico

Mosaic Federal 2419 1BS 1H & 2BS 1H

Chevron U.S.A. Inc.

Attn: NOJV Delaware Basin

1400 Smith Street

Houston, TX 77002

ATTACHMENT C

Summary of Communications

Mosaic Fed 2419 1BS 1H

Mosaic Fed 2419 2BS 1H

Company Name: Chevron U.S.A., Inc.	
Date:	Comments/Actions
4/21/2022	Mailed well proposals via certified mail
5/3/2022	Proposals received by Chevron
5/11/2022	Exchanged emails with Scott Sabrsula
5/12/2022	Exchanged emails and provided Scott Sabrsula a copy of Kaiser's proposed JOA
6/6/2022	Technical call between Kaiser-Francis and Chevron
6/15/2022	Exchanged emails with Evan Perlitz
6/27/2022	Emailed Scott Sabrsula requesting an update on Chevron's review of the JOA
7/6/2022	Emailed Scott Sabrsula requesting an update on Chevron's review of the JOA
7/22/2022	Traded emails with Scott Sabrsula about revisions to the JOA
7/25/2022	Exchanged emails with Evan Perlitz
8/4/2022	Technical meeting held with Chevron
8/18/2022	Emailed Scott Sabrsula for update on the JOA review

ATTACHMENT 

KAISER-FRANCIS OIL COMPANY

P.O. BOX 21468 TULSA OKLAHOMA 74121-1468

6733 South Yale Avenue, 74136

(918) 494-0000

Fax: (918) 491-4383

April 21, 2022

SENT VIA CERTIFIED MAIL 7019 0140 0000 3677 1282

Chevron USA, Inc.
Attn: New Mexico NOJV
1400 Smith Street
Houston, Texas 77002

Re: Mosaic Fed. 2419 1BS 1H
Mosaic Fed. 2419 2BS 1H
N/2 N/2 Section 24 T23S R28E & N/2 N/2 Section 19 T23S R29E
Eddy County, New Mexico

To Whom it May Concern:

Kaiser-Francis Oil Company ("KFOC") hereby proposed to drill the Mosaic Fed. 2419 1BS 1H ("Well 1") and Mosaic Fed. 2419 2BS 1H ("Well 2") at a legal location in the N/2 N/2 of Section 24 T23S R28E & N/2 N/2 of Section 19 T23S R29E, Eddy County, New Mexico. KFOC intends to develop this area by utilizing pad drilling.

The intended surface hole location for the wells are as follows: 1,105' FNL and 186' FWL for Well 1 and 1,035' FNL and 186' FWL for Well 2 all in Section 24, T23S R28E.

The intended bottom hole location for the wells are as follows: 660' FNL and 100' FEL for Well 1 and 2, both in Section 19, T23S R29E.

Well 1 is proposed to drill vertically to a depth of approximately 7,450' and horizontally in an Eastern direction within its targeted formation to the referenced bottom hole location. Total measured depth of the wells is proposed to be approximately 17,750' from surface to terminus.

Well #2 is proposed to drill vertically to a depth of approximately 8,900' and horizontally in an Eastern direction within its targeted formation to the referenced bottom hole location. Total measured depth of the wells is proposed to be approximately 19,200' from surface to terminus.

Enclosed are multiple documents for your review and execution including detailed AFEs for each well, reflecting estimated costs associated with each well. If you intend to participate, please execute in the appropriate box on each AFE, for each individual well, and return to the undersigned within 30 days of receipt of this proposal. The AFEs represent an estimated cost and are subject to change once wells are drilled/completed and actual costs are incurred. Parties electing to participate are responsible for their proportionate share of actual costs incurred.

An AAPL Form 610- 1989 Model Form Operating Agreement shall be sent to all parties subsequent to this letter.

KFOC intends to submit an application for a Compulsory Pooling Order with the New Mexico Oil Conservation Division within 30 days of your receipt of this letter. This will allow KFOC to move forward

with planning and drilling the subject wells while allowing time to properly executed a JOA amongst the interested parties.

Should you have any questions, I can be reached at 918-491-4431 or brendonk@kfoc.net.

Respectfully,

KAISER-FRANCIS OIL COMPANY

A handwritten signature in blue ink, appearing to read "B. Kushnerick", written over a horizontal line.

Brendon J. Kushnerick

Enclosure

Kaiser-Francis Oil Company
Authority for Expenditure

Operator: Kaiser-Francis Oil Company	Date: 8/22/2022
Well Name: Mosaic FED 2419 1BS 1H	Field: Culebra Bluff /Bones Springs South
Prospect: Mosaic	County / Psh: Eddy
Location: Sec 24 23S 28E	State: NM
Depth: 17750 MD 7450 TVD	Preparer: RS/CJ/DZ
Horizon: 1st Bone Spring Sand	
Objective: Drill and complete a 9500' Bone springs lateral on a multi well pad	

JIB Code	Intangible Drilling and Completion Costs	Drilling	Completion	Eqpt/Const	Total
500/600	Location / Road Expense / Frac Pit Construction	\$45,000	\$14,000	\$36,000	\$95,000
501/**	Cond, Rat Hole, Mouse Hole Services	\$26,000			\$26,000
502/602	Location Damages	\$20,000			\$20,000
503/603	Environmental, Regulatory, and Permitting	\$30,000			\$30,000
504/604	Turnkey Completion Rig		\$308,000		\$308,000
	Footage @ per foot				\$0
	Daywork 15 days at \$28,000	\$420,000			\$420,000
505/605	Coiled Tubing & Related Services				\$0
506/606	Rig Mob / Demob	\$255,500			\$255,500
507/**	Directional Drilling Services	\$426,500			\$426,500
508/608	Bits & Reamers	\$73,440			\$73,440
510/610	Fuel/Power	\$135,000			\$135,000
512/612	Drilling Water / Completion Fluid	\$35,000	\$890,625		\$925,625
514/614	Mud & Chemicals	\$160,000	\$25,000		\$185,000
515/615	Closed Loop System / Mud & Cuttings Disposal / SWD	\$190,000	\$20,000		\$210,000
516/616	Surface Equipment Rental / Inspection	\$224,975	\$293,370		\$518,345
517/617	Downhole Equipment Rental / Inspection	\$136,100	\$84,500		\$220,600
518/618	Transportation & Loading	\$65,000	\$50,000		\$115,000
520/**	DST, Coring & Analysis				\$0
521 /621	Downhole tools: Whipstocks, Liner Hangers, Frac Plugs		\$50,400		\$50,400
522/622	OH Logs / CH Logs / Perforating / Slickline		\$233,700		\$233,700
523/**	Mud Logging / Geosteering / LWD	\$18,000			\$18,000
524/624	Cementing & Squeezing	\$171,000			\$171,000
526/626	Casing Crews & Equipment	\$61,500			\$61,500
528/628	Plug & Abandon				\$0
*/630	Stimulation		\$3,990,000		\$3,990,000
532/632	Geological & Engineering				\$0
534/634	Supervision	\$78,000	\$48,750		\$126,750
536/636	Miscellaneous Contract Labor	\$55,000	\$48,000	\$45,000	\$148,000
538/638	Prof. Fees & Abstracts	\$10,000			\$10,000
541/641	Liability Insurance / Bonds				\$0
542/642	Drilling Overhead / Competition Overhead	\$6,000	\$5,250		\$11,250
544/644	Miscellaneous & Unforeseen	\$112,547	\$303,080	\$4,050	\$419,677
	Total Intangible Drilling & Completion	\$2,754,562	\$6,364,675	\$85,050	\$9,204,287

JIB Code	Tangible Well and Lease Equipment Costs	Drilling	Completion	Eqpt/Const	Total
700	Conductor				\$0
701	Surface Casing 13 3/8 54.5 J 55 BTC 500	\$48,855			\$48,855
702	Intermediate Casing 9 5/8 40# P110 HP BTC 2800	\$198,572			\$198,572
702	Intermediate Casing				\$0
704	Drilling Liner (BCP)				\$0
703	Production Liner (ACP)				\$0
706	Production Casing (ACP) 5-1/2" P110 23 ppf Eagle SFH 17750	\$1,025,780			\$1,025,780
710	Tubing 2-7/8" 6.5# L-80 EUE 2021 COPAS 8500		\$79,900		\$79,900
721/720	Wellhead Equip. BCP/ACP	\$45,000	\$50,000		\$95,000
724	Packers & Downhole Equipment		\$20,000		\$20,000
726	Rods & Pumps				\$0
737	Line Pipe / Fittings / Pipeline			\$275,000	\$275,000
738	Automation/SCADA/Misc Electrical Equipment			\$40,000	\$40,000
747	Valves			\$45,000	\$45,000
752	Tanks & Walkways			\$100,000	\$100,000
765	Heaters / Treaters / Separator / VRU			\$77,000	\$77,000
768	Artificial Lift / Compressor			\$45,000	\$45,000
770	Gas Sales Unit / Dehy / Line Heater / Flare			\$12,000	\$12,000
775/774	Transportation and Freight BCP/ACP		\$2,000	\$45,000	\$47,000
777/776	Inspect/Test Tubulars BCP/ACP	\$24,000	\$5,000		\$29,000
779/778	Non-Controllable Equipment BCP/ACP	\$15,821	\$7,845	\$29,950	\$53,616
	Total Well and Lease Equipment	\$1,358,028	\$164,745	\$668,950	\$2,191,723

Total Drilling and Completion Cost \$4,112,590 \$6,529,420 \$754,000 \$11,396,010

KFOC APPROVALS	PARTNER APPROVAL
Robert Sanford (918) 491-4201 Drilling	_____
Jake Crissup (918) 491-4685 Completion	Signature _____
David Hamilton (832) 428-2460 Land	Printed Name _____
Lee Lindman (918) 491-4484 Geology	Position _____
Blake Humphries (918) 491-4455 Reservoir	Company _____
Mike Raines (918) 491-4658 Asset Manager	Date _____
Tom Redman (918) 491-4201 Chief Operating Officer	

ATTACHMENT E

Operator: Kaiser-Francis Oil Company		Date: 8/22/2022			
Well Name: Mosaic FED 2419 2B5 1H		Field: Culebra Bluff /Bones Springs South			
Prospect: Mosaic		County / Psh: Eddy			
Location: Sec 24 23S 28E		State: NM			
Depth: 19200 MD	8900 TVD	Preparer: RS/CJ/DZ			
Horizon: 2nd Bone Spring Sand					
Objective: Drill and complete a 9500' Bone springs lateral on a multi well pad					
JIB Code	Intangible Drilling and Completion Costs	Drilling	Completion	Eqpt/Const	Total
500/600	Location / Road Expense / Frac Pit Construction	\$45,000	\$14,000	\$36,000	\$95,000
501/**	Cond, Rat Hole, Mouse Hole Services	\$26,000			\$26,000
502/602	Location Damages	\$20,000			\$20,000
503/603	Environmental, Regulatory, and Permitting	\$30,000			\$30,000
504/604	Turnkey Completion Rig		\$308,000		\$308,000
	Footage @ per foot				\$0
	Daywork 16 days at \$28,000	\$448,000			\$448,000
505/605	Coiled Tubing & Related Services				\$0
506/606	Rig Mob / Demob	\$255,500			\$255,500
507/**	Directional Drilling Services	\$426,500			\$426,500
508/608	Bits & Reamers	\$73,440			\$73,440
510/610	Fuel/Power	\$144,000			\$144,000
512/612	Drilling Water / Completion Fluid	\$35,000	\$890,625		\$925,625
514/614	Mud & Chemicals	\$160,000	\$25,000		\$185,000
515/615	Closed Loop System / Mud & Cuttings Disposal / SWD	\$190,000	\$20,000		\$210,000
516/616	Surface Equipment Rental / Inspection	\$233,440	\$293,370		\$526,810
517/617	Downhole Equipment Rental / Inspection	\$140,700	\$84,500		\$225,200
518/618	Transportation & Loading	\$65,000	\$50,000		\$115,000
520/**	DST, Coring & Analysis				\$0
521 /621	Downhole tools: Whipstocks, Liner Hangers, Frac Plugs		\$50,400		\$50,400
522/622	OH Logs / CH Logs / Perforating / Slickline		\$233,700		\$233,700
523/**	Mud Logging / Geosteering / LWD	\$19,200			\$19,200
524/624	Cementing & Squeezing	\$171,000			\$171,000
526/626	Casing Crews & Equipment	\$61,500			\$61,500
528/628	Plug & Abandon				\$0
532/632	Stimulation		\$3,990,000		\$3,990,000
532/632	Geological & Engineering				\$0
534/634	Supervision	\$83,000	\$48,750		\$131,750
536/636	Miscellaneous Contract Labor	\$55,000	\$48,000	\$45,000	\$148,000
538/638	Prof. Fees & Abstracts	\$10,000			\$10,000
541/641	Liability Insurance / Bonds				\$0
542/642	Drilling Overhead / Competition Overhead	\$6,400	\$5,250		\$11,650
544/644	Miscellaneous & Unforeseen	\$114,727	\$303,080	\$4,050	\$421,857
Total Intangible Drilling & Completion		\$2,813,407	\$6,364,675	\$85,050	\$9,263,132
JIB Code	Tangible Well and Lease Equipment Costs	Drilling	Completion	Eqpt/Const	Total
700	Conductor				\$0
701	Surface Casing 13 3/8 54.5 J 55 BTC 500	\$48,855			\$48,855
702	Intermediate Casing 9 5/8 40# P110 HP BTC 2800	\$198,572			\$198,572
702	Intermediate Casing				\$0
704	Drilling Liner (BCP)				\$0
703	Production Liner (ACP)				\$0
706	Production Casing (ACP) 5-1/2" P110 23 ppf Eagle SFH 19200	\$1,102,224			\$1,102,224
710	Tubing 2-7/8" 6.5# L-80 EUE 2021 COPAS 10500		\$98,700		\$98,700
721/720	Wellhead Equip. BCP/ACP	\$45,000	\$50,000		\$95,000
724	Packers & Downhole Equipment		\$20,000		\$20,000
726	Rods & Pumps				\$0
737	Line Pipe / Fittings / Pipeline			\$275,000	\$275,000
738	Automation/SCADA/Misc Electrical Equipment			\$40,000	\$40,000
747	Valves			\$45,000	\$45,000
752	Tanks & Walkways			\$100,000	\$100,000
765	Heaters / Treaters / Separator / VRU			\$77,000	\$77,000
768	Artificial Lift / Compressor			\$45,000	\$45,000
770	Gas Sales Unit / Dehy / Line Heater / Flare			\$12,000	\$12,000
775/774	Transportation and Freight BCP/ACP		\$2,000	\$45,000	\$47,000
777/776	Inspect/Test Tubulars BCP/ACP	\$24,000	\$5,000		\$29,000
779/778	Non-Controllable Equipment BCP/ACP	\$15,821	\$8,785	\$29,950	\$54,556
Total Well and Lease Equipment		\$1,434,472	\$184,485	\$668,950	\$2,287,907
Total Drilling and Completion Cost		\$4,247,879	\$6,549,160	\$754,000	\$11,551,039

KFOC APPROVALS	PARTNER APPROVAL
Robert Sanford (918) 491-4201 Drilling	
Jake Crissup (918) 491-4685 Completion	Signature
David Hamilton (832) 428-2460 Land	Printed Name
Lee Lindman (918) 491-4484 Geology	Position
Blake Humphries (918) 491-4455 Reservoir	Company
Mike Raines (918) 491-4658 Asset Manager	Date
Tom Redman (918) 491-4201 Chief Operating Officer	

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF KAISER-FRANCIS OIL
COMPANY FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.

Case No. 22975

VERIFIED STATEMENT OF LEE J. LINDMAN

Lee J. Lindman, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the geological matters stated herein.
2. I am a geologist for Kaiser-Francis Oil Company ("KFOC"). I have been qualified by the Division as an expert petroleum geologist. My area of responsibility at KFOC includes this portion of Southeast New Mexico.
3. The following geological plats are attached hereto:
 - (a) Attachment A is a structure map on the top of the 1st Bone Spring formation. It shows that structure dips gently to the East. It also displays offset 1st Bone Spring producing wells and permits in the vicinity of the Mosaic Fed 2419 IBS Well No. 1H, and a line of cross-section A – A'. The proposed completion interval in the well is the 1st Bone Spring Sand.
 - (b) Attachment B is a gross isopach map of the 1st Bone Spring Sand zone. This zone has uniform thickness across the proposed well unit.
 - (c) Attachment C is stratigraphic cross section A – A' hung on the top of the 1st Bone Spring Sand. The well logs on the cross-section give a representative sample of the 1st Bone Spring Sand formation in this area. The target zone for the well is continuous across the well unit and is indicated by the red arrow.
4. I conclude from the maps that:
 - (a) The horizontal spacing unit is justified from a geologic standpoint.
 - (b) Each quarter section in the well unit will contribute more or less equally to production from the well.
 - (c) There is no faulting or other geologic impediment which will adversely affect the drilling of the subject well.

EXHIBIT

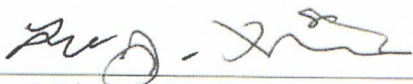
301

5. Based on production from wells in this area, KFOC sees no preferential orientation for wells in this area.
6. Attachment D contains the proposed horizontal drilling plans for the well. The producing interval of the well will be orthodox, and will comply with Division setback requirements.

VERIFICATION

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

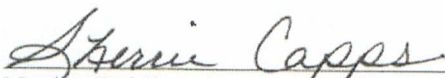
Lee J. Lindman, being duly sworn upon his oath, deposes and states that: He is a geologist for Kaiser-Francis Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.



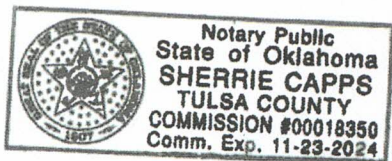
Lee J. Lindman

SUBSCRIBED AND SWORN TO before me this 13 day of June, 2022 by Sherrie Capps.

My Commission Expires: 11-23-2024



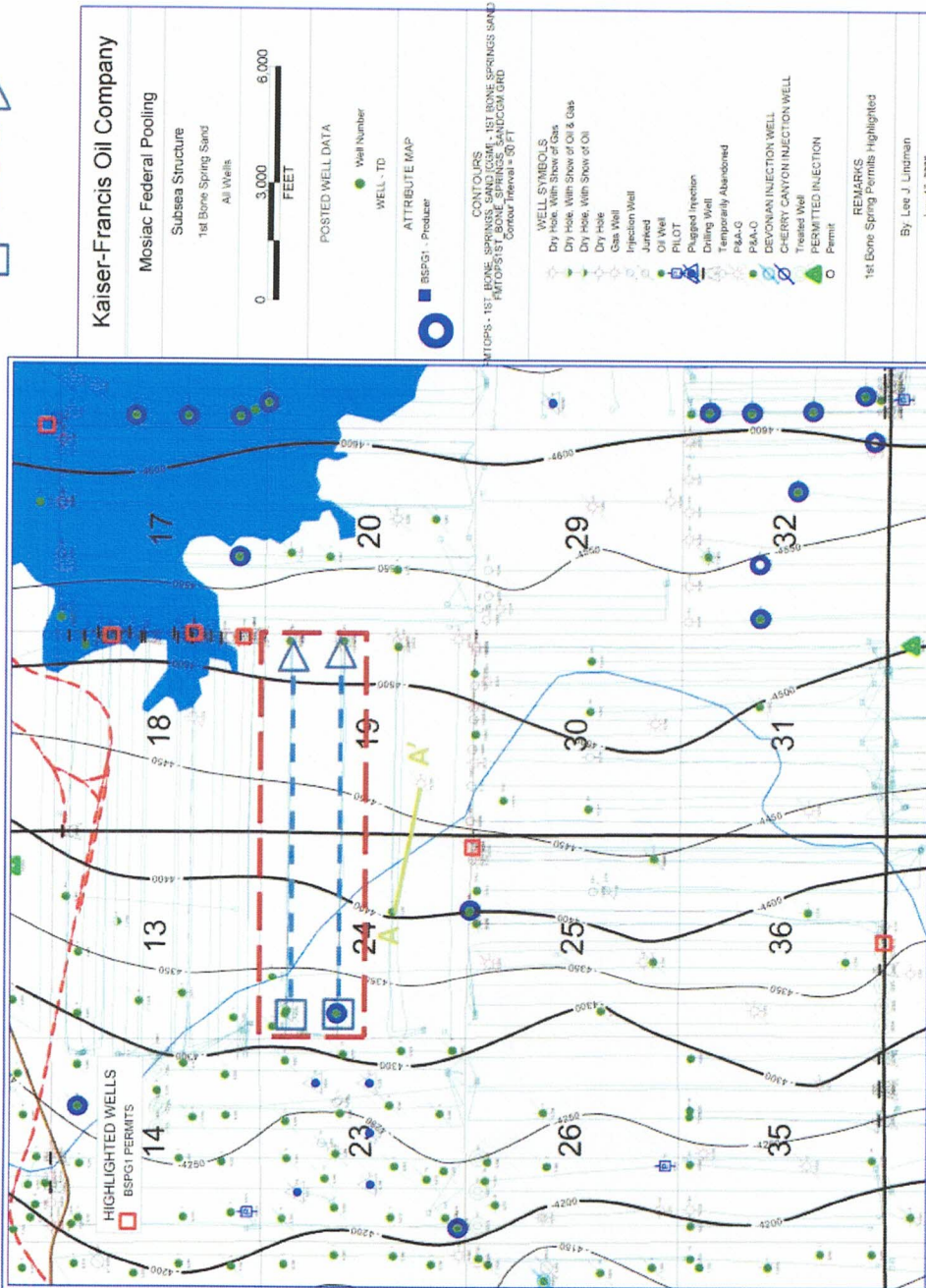
Notary Public



ATTACHMENT

A

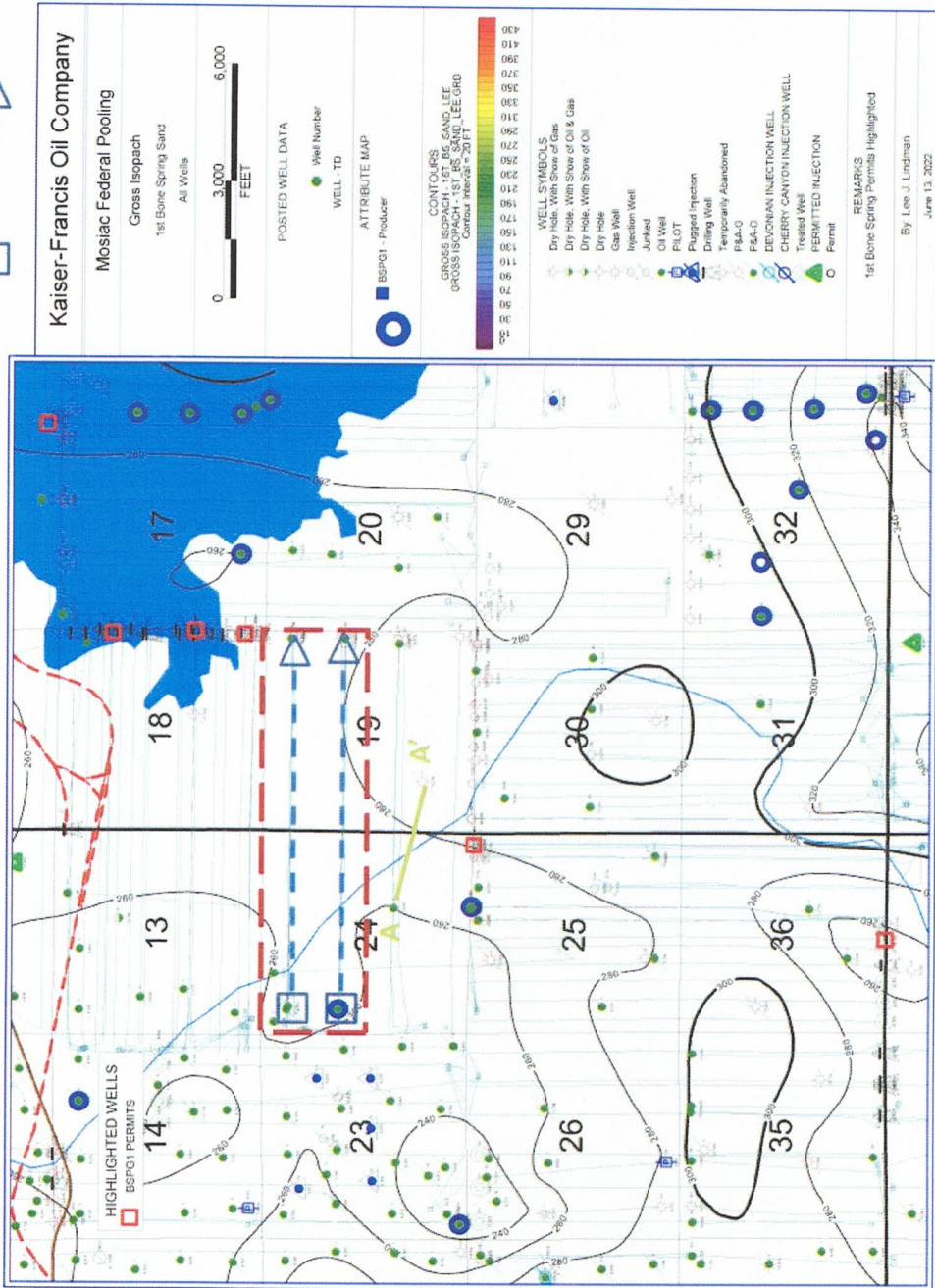
SHL  BHL 



Project Area

ATTACHMENT B

SHL BHL
□ --- △

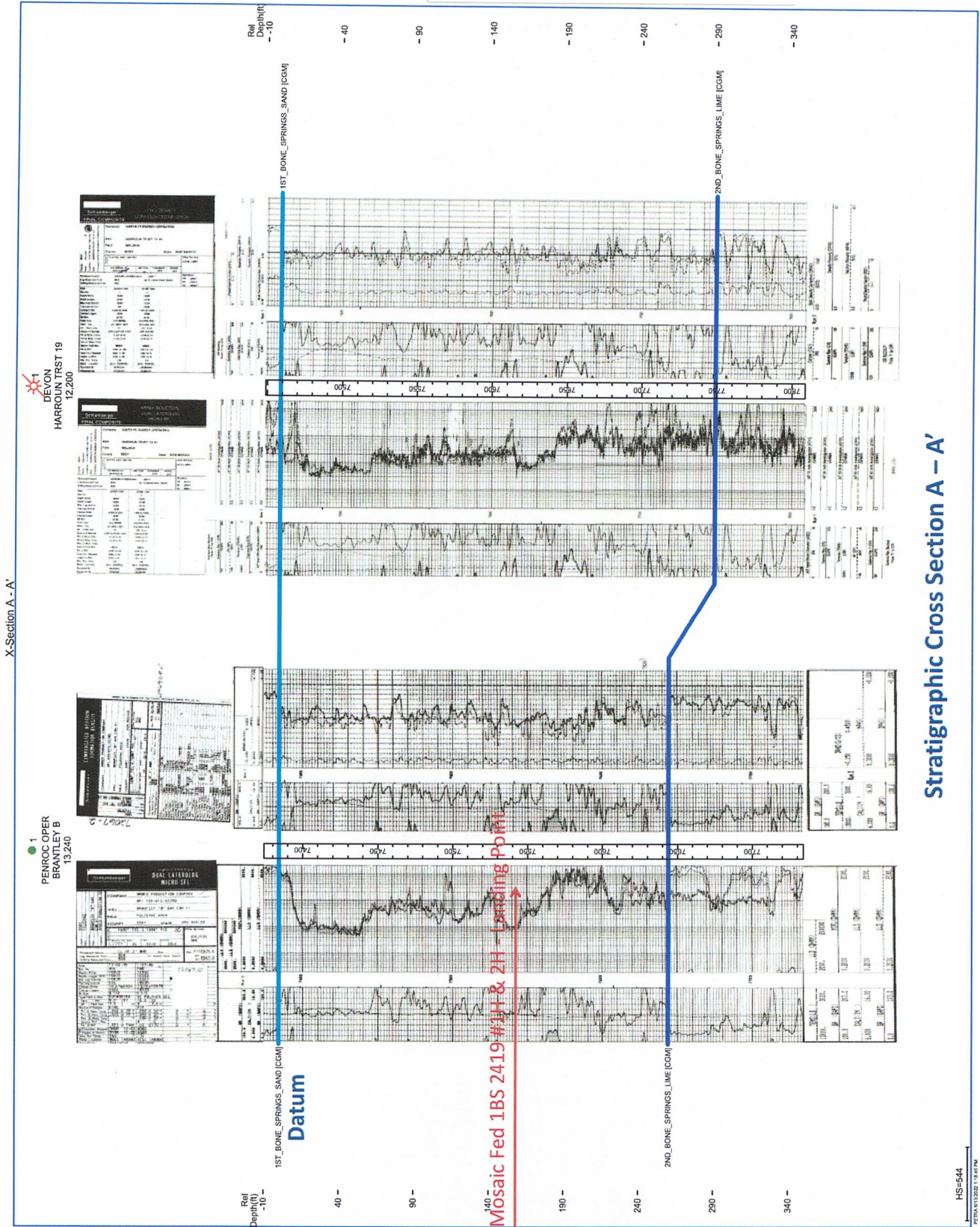


Project Area

Isopach Map (1st Bone Spring Sand)

ATTACHMENT

A'



Stratigraphic Cross Section A - A'

HS-544
PETER WATSON 1/8/84 PM



KAISER FRANCIS OIL CO.

EDDY COUNTY, N.M. 27
SEC 24-T23S-R28E
MOAIC FED 2419 1BS 1H

HORIZONTAL

Plan: PLAN 1

Standard Planning Report

10 June, 2022

ATTACHMENT

D

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Project	EDDY COUNTY, N.M. 27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SEC 24-T23S-R28E		
Site Position:		Northing:	471,315.07 usft
From:	Map	Easting:	587,964.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.29544072
		Longitude:	-104.04865757

Well	MOSAIC FED 2419 1BS 1H		
Well Position	+N/-S	0.00 usft	Northing: 471,225.05 usft
	+E/-W	0.00 usft	Easting: 587,994.50 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: 2,987.00 usft
Grid Convergence:	0.15 °		Ground Level: 2,987.00 usft

Wellbore	HORIZONTAL		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/13/2022	6.67	59.87	47,403.67522676

Design	PLAN 1		
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Audit Notes:				
Version:	Phase:	PROTOTYPE	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	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
	6/10/2022	1	0.00	17,495.06	PLAN 1 (HORIZONTAL)	MWD+IGRF OWSG MWD + IGRF or WA

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	12.00	188.19	2,095.62	-61.96	-8.91	2.00	2.00	0.00	188.19	
5,919.96	12.00	188.19	5,832.11	-848.09	-122.02	0.00	0.00	0.00	0.00	
6,519.96	0.00	0.00	6,427.74	-910.05	-130.93	2.00	-2.00	0.00	180.00	
7,060.77	0.00	0.00	6,968.54	-910.05	-130.93	0.00	0.00	0.00	0.00	KOP 1BS 1H
7,810.77	90.00	90.65	7,446.00	-915.49	346.50	12.00	12.00	12.09	90.65	
17,495.06	90.00	90.65	7,446.00	-1,025.84	10,030.17	0.00	0.00	0.00	0.00	PBHL 1BS 1H



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 2°/100'									
1,600.00	2.00	188.19	1,599.98	-1.73	-0.25	-0.25	2.00	2.00	0.00
1,700.00	4.00	188.19	1,699.84	-6.91	-0.99	-0.99	2.00	2.00	0.00
1,800.00	6.00	188.19	1,799.45	-15.53	-2.23	-2.23	2.00	2.00	0.00
1,900.00	8.00	188.19	1,898.70	-27.60	-3.97	-3.97	2.00	2.00	0.00
2,000.00	10.00	188.19	1,997.47	-43.08	-6.20	-6.20	2.00	2.00	0.00
2,100.00	12.00	188.19	2,095.62	-61.96	-8.91	-8.91	2.00	2.00	0.00
Hold 12° Inc									
2,200.00	12.00	188.19	2,193.44	-82.54	-11.88	-11.88	0.00	0.00	0.00
2,300.00	12.00	188.19	2,291.25	-103.12	-14.84	-14.84	0.00	0.00	0.00
2,400.00	12.00	188.19	2,389.07	-123.70	-17.80	-17.80	0.00	0.00	0.00
2,500.00	12.00	188.19	2,486.88	-144.28	-20.76	-20.76	0.00	0.00	0.00
2,600.00	12.00	188.19	2,584.70	-164.86	-23.72	-23.72	0.00	0.00	0.00
2,700.00	12.00	188.19	2,682.51	-185.44	-26.68	-26.68	0.00	0.00	0.00
2,800.00	12.00	188.19	2,780.33	-206.02	-29.64	-29.64	0.00	0.00	0.00
2,900.00	12.00	188.19	2,878.14	-226.60	-32.60	-32.60	0.00	0.00	0.00
3,000.00	12.00	188.19	2,975.96	-247.18	-35.56	-35.56	0.00	0.00	0.00
3,100.00	12.00	188.19	3,073.77	-267.76	-38.52	-38.52	0.00	0.00	0.00
3,200.00	12.00	188.19	3,171.59	-288.34	-41.48	-41.48	0.00	0.00	0.00
3,300.00	12.00	188.19	3,269.40	-308.92	-44.44	-44.44	0.00	0.00	0.00
3,400.00	12.00	188.19	3,367.22	-329.50	-47.40	-47.40	0.00	0.00	0.00
3,500.00	12.00	188.19	3,465.03	-350.07	-50.37	-50.37	0.00	0.00	0.00
3,600.00	12.00	188.19	3,562.84	-370.65	-53.33	-53.33	0.00	0.00	0.00
3,700.00	12.00	188.19	3,660.66	-391.23	-56.29	-56.29	0.00	0.00	0.00
3,800.00	12.00	188.19	3,758.47	-411.81	-59.25	-59.25	0.00	0.00	0.00
3,900.00	12.00	188.19	3,856.29	-432.39	-62.21	-62.21	0.00	0.00	0.00
4,000.00	12.00	188.19	3,954.10	-452.97	-65.17	-65.17	0.00	0.00	0.00
4,100.00	12.00	188.19	4,051.92	-473.55	-68.13	-68.13	0.00	0.00	0.00
4,200.00	12.00	188.19	4,149.73	-494.13	-71.09	-71.09	0.00	0.00	0.00
4,300.00	12.00	188.19	4,247.55	-514.71	-74.05	-74.05	0.00	0.00	0.00
4,400.00	12.00	188.19	4,345.36	-535.29	-77.01	-77.01	0.00	0.00	0.00
4,500.00	12.00	188.19	4,443.18	-555.87	-79.97	-79.97	0.00	0.00	0.00
4,600.00	12.00	188.19	4,540.99	-576.45	-82.93	-82.93	0.00	0.00	0.00
4,700.00	12.00	188.19	4,638.81	-597.03	-85.89	-85.89	0.00	0.00	0.00
4,800.00	12.00	188.19	4,736.62	-617.60	-88.86	-88.86	0.00	0.00	0.00
4,900.00	12.00	188.19	4,834.44	-638.18	-91.82	-91.82	0.00	0.00	0.00
5,000.00	12.00	188.19	4,932.25	-658.76	-94.78	-94.78	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.00	12.00	188.19	5,030.07	-679.34	-97.74	-97.74	0.00	0.00	0.00	
5,200.00	12.00	188.19	5,127.88	-699.92	-100.70	-100.70	0.00	0.00	0.00	
5,300.00	12.00	188.19	5,225.70	-720.50	-103.66	-103.66	0.00	0.00	0.00	
5,400.00	12.00	188.19	5,323.51	-741.08	-106.62	-106.62	0.00	0.00	0.00	
5,500.00	12.00	188.19	5,421.33	-761.66	-109.58	-109.58	0.00	0.00	0.00	
5,600.00	12.00	188.19	5,519.14	-782.24	-112.54	-112.54	0.00	0.00	0.00	
5,700.00	12.00	188.19	5,616.95	-802.82	-115.50	-115.50	0.00	0.00	0.00	
5,800.00	12.00	188.19	5,714.77	-823.40	-118.46	-118.46	0.00	0.00	0.00	
5,900.00	12.00	188.19	5,812.58	-843.98	-121.42	-121.42	0.00	0.00	0.00	
5,919.96	12.00	188.19	5,832.11	-848.08	-122.01	-122.01	0.00	0.00	0.00	
Start Drop 2°/100'										
6,000.00	10.40	188.19	5,910.62	-863.47	-124.23	-124.23	2.00	-2.00	0.00	
6,100.00	8.40	188.19	6,009.27	-879.64	-126.55	-126.55	2.00	-2.00	0.00	
6,200.00	6.40	188.19	6,108.44	-892.38	-128.39	-128.39	2.00	-2.00	0.00	
6,300.00	4.40	188.19	6,207.99	-901.70	-129.73	-129.73	2.00	-2.00	0.00	
6,400.00	2.40	188.19	6,307.81	-907.56	-130.57	-130.57	2.00	-2.00	0.00	
6,500.00	0.40	188.19	6,407.77	-909.98	-130.92	-130.92	2.00	-2.00	0.00	
6,519.96	0.00	188.19	6,427.73	-910.05	-130.93	-130.93	2.00	-2.00	0.00	
Hold 0°										
6,600.00	0.00	0.00	6,507.77	-910.05	-130.93	-130.93	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,607.77	-910.05	-130.93	-130.93	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,707.77	-910.05	-130.93	-130.93	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,807.77	-910.05	-130.93	-130.93	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,907.77	-910.05	-130.93	-130.93	0.00	0.00	0.00	
7,060.77	0.00	0.00	6,968.54	-910.05	-130.93	-130.93	0.00	0.00	0.00	
KOP 12°/100'										
7,075.00	1.71	90.65	6,982.77	-910.05	-130.72	-130.72	12.00	12.00	0.00	
7,100.00	4.71	90.65	7,007.73	-910.07	-129.32	-129.32	12.00	12.00	0.00	
7,125.00	7.71	90.65	7,032.58	-910.10	-126.62	-126.62	12.00	12.00	0.00	
7,150.00	10.71	90.65	7,057.25	-910.14	-122.62	-122.62	12.00	12.00	0.00	
7,175.00	13.71	90.65	7,081.68	-910.20	-117.33	-117.33	12.00	12.00	0.00	
7,200.00	16.71	90.65	7,105.81	-910.28	-110.77	-110.77	12.00	12.00	0.00	
7,225.00	19.71	90.65	7,129.55	-910.37	-102.96	-102.96	12.00	12.00	0.00	
7,250.00	22.71	90.65	7,152.86	-910.47	-93.92	-93.92	12.00	12.00	0.00	
7,275.00	25.71	90.65	7,175.65	-910.59	-83.67	-83.67	12.00	12.00	0.00	
7,300.00	28.71	90.65	7,197.89	-910.72	-72.24	-72.24	12.00	12.00	0.00	
7,325.00	31.71	90.65	7,219.49	-910.86	-59.67	-59.67	12.00	12.00	0.00	
7,350.00	34.71	90.65	7,240.40	-911.02	-45.98	-45.98	12.00	12.00	0.00	
7,375.00	37.71	90.65	7,260.57	-911.19	-31.21	-31.21	12.00	12.00	0.00	
7,400.00	40.71	90.65	7,279.94	-911.37	-15.41	-15.41	12.00	12.00	0.00	
7,425.00	43.71	90.65	7,298.46	-911.56	1.38	1.38	12.00	12.00	0.00	
7,450.00	46.71	90.65	7,316.07	-911.76	19.12	19.12	12.00	12.00	0.00	
7,475.00	49.71	90.65	7,332.73	-911.97	37.75	37.75	12.00	12.00	0.00	
7,500.00	52.71	90.65	7,348.39	-912.19	57.24	57.24	12.00	12.00	0.00	
7,525.00	55.71	90.65	7,363.01	-912.43	77.51	77.51	12.00	12.00	0.00	
7,550.00	58.71	90.65	7,376.55	-912.66	98.52	98.52	12.00	12.00	0.00	
7,575.00	61.71	90.65	7,388.97	-912.91	120.21	120.21	12.00	12.00	0.00	
7,600.00	64.71	90.65	7,400.24	-913.17	142.53	142.53	12.00	12.00	0.00	
7,625.00	67.71	90.65	7,410.32	-913.43	165.40	165.40	12.00	12.00	0.00	
7,650.00	70.71	90.65	7,419.19	-913.69	188.77	188.77	12.00	12.00	0.00	
7,675.00	73.71	90.65	7,426.83	-913.96	212.57	212.57	12.00	12.00	0.00	
7,700.00	76.71	90.65	7,433.21	-914.24	236.73	236.73	12.00	12.00	0.00	
7,725.00	79.71	90.65	7,438.32	-914.52	261.20	261.20	12.00	12.00	0.00	



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,750.00	82.71	90.65	7,442.14	-914.80	285.90	285.90	12.00	12.00	0.00
7,775.00	85.71	90.65	7,444.67	-915.08	310.77	310.77	12.00	12.00	0.00
7,800.00	88.71	90.65	7,445.88	-915.37	335.74	335.74	12.00	12.00	0.00
7,810.77	90.00	90.65	7,446.00	-915.49	346.50	346.50	12.00	12.00	0.00
LP 7811' MD/ 7446' TVD									
7,900.00	90.00	90.65	7,446.00	-916.51	435.73	435.73	0.00	0.00	0.00
8,000.00	90.00	90.65	7,446.00	-917.65	535.72	535.72	0.00	0.00	0.00
8,100.00	90.00	90.65	7,446.00	-918.79	635.72	635.72	0.00	0.00	0.00
8,200.00	90.00	90.65	7,446.00	-919.93	735.71	735.71	0.00	0.00	0.00
8,300.00	90.00	90.65	7,446.00	-921.07	835.70	835.70	0.00	0.00	0.00
8,400.00	90.00	90.65	7,446.00	-922.20	935.70	935.70	0.00	0.00	0.00
8,500.00	90.00	90.65	7,446.00	-923.34	1,035.69	1,035.69	0.00	0.00	0.00
8,600.00	90.00	90.65	7,446.00	-924.48	1,135.68	1,135.68	0.00	0.00	0.00
8,700.00	90.00	90.65	7,446.00	-925.62	1,235.68	1,235.68	0.00	0.00	0.00
8,800.00	90.00	90.65	7,446.00	-926.76	1,335.67	1,335.67	0.00	0.00	0.00
8,900.00	90.00	90.65	7,446.00	-927.90	1,435.66	1,435.66	0.00	0.00	0.00
9,000.00	90.00	90.65	7,446.00	-929.04	1,535.66	1,535.66	0.00	0.00	0.00
9,100.00	90.00	90.65	7,446.00	-930.18	1,635.65	1,635.65	0.00	0.00	0.00
9,200.00	90.00	90.65	7,446.00	-931.32	1,735.64	1,735.64	0.00	0.00	0.00
9,300.00	90.00	90.65	7,446.00	-932.46	1,835.64	1,835.64	0.00	0.00	0.00
9,400.00	90.00	90.65	7,446.00	-933.60	1,935.63	1,935.63	0.00	0.00	0.00
9,500.00	90.00	90.65	7,446.00	-934.74	2,035.63	2,035.63	0.00	0.00	0.00
9,600.00	90.00	90.65	7,446.00	-935.88	2,135.62	2,135.62	0.00	0.00	0.00
9,700.00	90.00	90.65	7,446.00	-937.02	2,235.61	2,235.61	0.00	0.00	0.00
9,800.00	90.00	90.65	7,446.00	-938.16	2,335.61	2,335.61	0.00	0.00	0.00
9,900.00	90.00	90.65	7,446.00	-939.30	2,435.60	2,435.60	0.00	0.00	0.00
10,000.00	90.00	90.65	7,446.00	-940.44	2,535.59	2,535.59	0.00	0.00	0.00
10,100.00	90.00	90.65	7,446.00	-941.58	2,635.59	2,635.59	0.00	0.00	0.00
10,200.00	90.00	90.65	7,446.00	-942.72	2,735.58	2,735.58	0.00	0.00	0.00
10,300.00	90.00	90.65	7,446.00	-943.85	2,835.57	2,835.57	0.00	0.00	0.00
10,400.00	90.00	90.65	7,446.00	-944.99	2,935.57	2,935.57	0.00	0.00	0.00
10,500.00	90.00	90.65	7,446.00	-946.13	3,035.56	3,035.56	0.00	0.00	0.00
10,600.00	90.00	90.65	7,446.00	-947.27	3,135.55	3,135.55	0.00	0.00	0.00
10,700.00	90.00	90.65	7,446.00	-948.41	3,235.55	3,235.55	0.00	0.00	0.00
10,800.00	90.00	90.65	7,446.00	-949.55	3,335.54	3,335.54	0.00	0.00	0.00
10,900.00	90.00	90.65	7,446.00	-950.69	3,435.53	3,435.53	0.00	0.00	0.00
11,000.00	90.00	90.65	7,446.00	-951.83	3,535.53	3,535.53	0.00	0.00	0.00
11,100.00	90.00	90.65	7,446.00	-952.97	3,635.52	3,635.52	0.00	0.00	0.00
11,200.00	90.00	90.65	7,446.00	-954.11	3,735.51	3,735.51	0.00	0.00	0.00
11,300.00	90.00	90.65	7,446.00	-955.25	3,835.51	3,835.51	0.00	0.00	0.00
11,400.00	90.00	90.65	7,446.00	-956.39	3,935.50	3,935.50	0.00	0.00	0.00
11,500.00	90.00	90.65	7,446.00	-957.53	4,035.50	4,035.50	0.00	0.00	0.00
11,600.00	90.00	90.65	7,446.00	-958.67	4,135.49	4,135.49	0.00	0.00	0.00
11,700.00	90.00	90.65	7,446.00	-959.81	4,235.48	4,235.48	0.00	0.00	0.00
11,800.00	90.00	90.65	7,446.00	-960.95	4,335.48	4,335.48	0.00	0.00	0.00
11,900.00	90.00	90.65	7,446.00	-962.09	4,435.47	4,435.47	0.00	0.00	0.00
12,000.00	90.00	90.65	7,446.00	-963.23	4,535.46	4,535.46	0.00	0.00	0.00
12,100.00	90.00	90.65	7,446.00	-964.36	4,635.46	4,635.46	0.00	0.00	0.00
12,200.00	90.00	90.65	7,446.00	-965.50	4,735.45	4,735.45	0.00	0.00	0.00
12,300.00	90.00	90.65	7,446.00	-966.64	4,835.44	4,835.44	0.00	0.00	0.00
12,400.00	90.00	90.65	7,446.00	-967.78	4,935.44	4,935.44	0.00	0.00	0.00
12,500.00	90.00	90.65	7,446.00	-968.92	5,035.43	5,035.43	0.00	0.00	0.00
12,600.00	90.00	90.65	7,446.00	-970.06	5,135.42	5,135.42	0.00	0.00	0.00
12,700.00	90.00	90.65	7,446.00	-971.20	5,235.42	5,235.42	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,800.00	90.00	90.65	7,446.00	-972.34	5,335.41	5,335.41	0.00	0.00	0.00
12,900.00	90.00	90.65	7,446.00	-973.48	5,435.40	5,435.40	0.00	0.00	0.00
13,000.00	90.00	90.65	7,446.00	-974.62	5,535.40	5,535.40	0.00	0.00	0.00
13,100.00	90.00	90.65	7,446.00	-975.76	5,635.39	5,635.39	0.00	0.00	0.00
13,200.00	90.00	90.65	7,446.00	-976.90	5,735.38	5,735.38	0.00	0.00	0.00
13,300.00	90.00	90.65	7,446.00	-978.04	5,835.38	5,835.38	0.00	0.00	0.00
13,400.00	90.00	90.65	7,446.00	-979.18	5,935.37	5,935.37	0.00	0.00	0.00
13,500.00	90.00	90.65	7,446.00	-980.32	6,035.37	6,035.37	0.00	0.00	0.00
13,600.00	90.00	90.65	7,446.00	-981.46	6,135.36	6,135.36	0.00	0.00	0.00
13,700.00	90.00	90.65	7,446.00	-982.60	6,235.35	6,235.35	0.00	0.00	0.00
13,800.00	90.00	90.65	7,446.00	-983.74	6,335.35	6,335.35	0.00	0.00	0.00
13,900.00	90.00	90.65	7,446.00	-984.88	6,435.34	6,435.34	0.00	0.00	0.00
14,000.00	90.00	90.65	7,446.00	-986.01	6,535.33	6,535.33	0.00	0.00	0.00
14,100.00	90.00	90.65	7,446.00	-987.15	6,635.33	6,635.33	0.00	0.00	0.00
14,200.00	90.00	90.65	7,446.00	-988.29	6,735.32	6,735.32	0.00	0.00	0.00
14,300.00	90.00	90.65	7,446.00	-989.43	6,835.31	6,835.31	0.00	0.00	0.00
14,400.00	90.00	90.65	7,446.00	-990.57	6,935.31	6,935.31	0.00	0.00	0.00
14,500.00	90.00	90.65	7,446.00	-991.71	7,035.30	7,035.30	0.00	0.00	0.00
14,600.00	90.00	90.65	7,446.00	-992.85	7,135.29	7,135.29	0.00	0.00	0.00
14,700.00	90.00	90.65	7,446.00	-993.99	7,235.29	7,235.29	0.00	0.00	0.00
14,800.00	90.00	90.65	7,446.00	-995.13	7,335.28	7,335.28	0.00	0.00	0.00
14,900.00	90.00	90.65	7,446.00	-996.27	7,435.27	7,435.27	0.00	0.00	0.00
15,000.00	90.00	90.65	7,446.00	-997.41	7,535.27	7,535.27	0.00	0.00	0.00
15,100.00	90.00	90.65	7,446.00	-998.55	7,635.26	7,635.26	0.00	0.00	0.00
15,200.00	90.00	90.65	7,446.00	-999.69	7,735.26	7,735.26	0.00	0.00	0.00
15,300.00	90.00	90.65	7,446.00	-1,000.83	7,835.25	7,835.25	0.00	0.00	0.00
15,400.00	90.00	90.65	7,446.00	-1,001.97	7,935.24	7,935.24	0.00	0.00	0.00
15,500.00	90.00	90.65	7,446.00	-1,003.11	8,035.24	8,035.24	0.00	0.00	0.00
15,600.00	90.00	90.65	7,446.00	-1,004.25	8,135.23	8,135.23	0.00	0.00	0.00
15,700.00	90.00	90.65	7,446.00	-1,005.39	8,235.22	8,235.22	0.00	0.00	0.00
15,800.00	90.00	90.65	7,446.00	-1,006.53	8,335.22	8,335.22	0.00	0.00	0.00
15,900.00	90.00	90.65	7,446.00	-1,007.66	8,435.21	8,435.21	0.00	0.00	0.00
16,000.00	90.00	90.65	7,446.00	-1,008.80	8,535.20	8,535.20	0.00	0.00	0.00
16,100.00	90.00	90.65	7,446.00	-1,009.94	8,635.20	8,635.20	0.00	0.00	0.00
16,200.00	90.00	90.65	7,446.00	-1,011.08	8,735.19	8,735.19	0.00	0.00	0.00
16,300.00	90.00	90.65	7,446.00	-1,012.22	8,835.18	8,835.18	0.00	0.00	0.00
16,400.00	90.00	90.65	7,446.00	-1,013.36	8,935.18	8,935.18	0.00	0.00	0.00
16,500.00	90.00	90.65	7,446.00	-1,014.50	9,035.17	9,035.17	0.00	0.00	0.00
16,600.00	90.00	90.65	7,446.00	-1,015.64	9,135.16	9,135.16	0.00	0.00	0.00
16,700.00	90.00	90.65	7,446.00	-1,016.78	9,235.16	9,235.16	0.00	0.00	0.00
16,800.00	90.00	90.65	7,446.00	-1,017.92	9,335.15	9,335.15	0.00	0.00	0.00
16,900.00	90.00	90.65	7,446.00	-1,019.06	9,435.14	9,435.14	0.00	0.00	0.00
17,000.00	90.00	90.65	7,446.00	-1,020.20	9,535.14	9,535.14	0.00	0.00	0.00
17,100.00	90.00	90.65	7,446.00	-1,021.34	9,635.13	9,635.13	0.00	0.00	0.00
17,200.00	90.00	90.65	7,446.00	-1,022.48	9,735.13	9,735.13	0.00	0.00	0.00
17,300.00	90.00	90.65	7,446.00	-1,023.62	9,835.12	9,835.12	0.00	0.00	0.00
17,400.00	90.00	90.65	7,446.00	-1,024.76	9,935.11	9,935.11	0.00	0.00	0.00
17,495.06	90.00	90.65	7,446.00	-1,025.84	10,030.17	10,030.17	0.00	0.00	0.00

PBHL 17495' MD/ 7446' TVD



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 1BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3011.00usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 1BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP 1BS 1H - hit/miss target center - Point	0.00	0.00	6,968.54	-910.05	-130.93	470,315.00	587,863.57	32.29269233	-104.04899117	
PBHL 1BS 1H - plan hits target center - Point	0.00	0.01	7,446.00	-1,025.84	10,030.17	470,199.21	598,024.67	32.29229569	-104.01610956	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
17,420.58	7,446.00	20" Casing	20	24	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	KOP 2°/100'	
2,100.00	2,095.62	-61.96	-8.91	Hold 12° Inc	
5,919.96	5,832.11	-848.08	-122.01	Start Drop 2°/100'	
6,519.96	6,427.73	-910.05	-130.93	Hold 0°	
7,060.77	6,968.54	-910.05	-130.93	KOP 12°/100'	
7,810.77	7,446.00	-915.49	346.50	LP 7811' MD/ 7446' TVD	
17,495.06	7,446.00	-1,025.84	10,030.17	PBHL 17495' MD/ 7446' TVD	

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATION OF KAISER-FRANCIS OIL
COMPANY FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.

Case No. 22975

VERIFIED STATEMENT OF LEE J. LINDMAN

Lee J. Lindman, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the geological matters stated herein.
2. I am a geologist for Kaiser-Francis Oil Company ("KFOC"). I have been qualified by the Division as an expert petroleum geologist. My area of responsibility at KFOC includes this portion of Southeast New Mexico.
3. The following geological plats are attached hereto:
 - (a) Attachment A is a structure map on the top of the 2nd Bone Spring formation. It shows that structure dips gently to the East. It also displays offset 2nd Bone Spring producing wells and permits in the vicinity of the Mosaic Fed 2419 2BS Well No. 1H, and a line of cross-section A – A'. The proposed completion interval in the well is the 2nd Bone Spring Sand.
 - (b) Attachment B is a gross isopach map of the 2nd Bone Spring Sand zone. This zone has uniform thickness across the proposed well unit.
 - (c) Attachment C is stratigraphic cross section A – A' hung on the top of the 2nd Bone Spring Sand. The well logs on the cross-section give a representative sample of the 2nd Bone Spring Sand formation in this area. The target zone for the well is continuous across the well unit and is indicated by the red arrow.
4. I conclude from the maps that:
 - (a) The horizontal spacing unit is justified from a geologic standpoint.
 - (b) Each quarter section in the well unit will contribute more or less equally to production from the well.
 - (c) There is no faulting or other geologic impediment which will adversely affect the drilling of the subject well.

EXHIBIT


302

5. Based on production from wells in this area, KFOC sees no preferential orientation for wells in this area.
6. Attachment D contains the proposed horizontal drilling plans for the well. The producing interval of the well will be orthodox, and will comply with Division setback requirements.

VERIFICATION

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

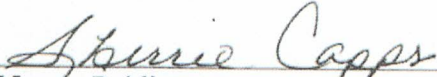
Lee J. Lindman, being duly sworn upon his oath, deposes and states that: He is a geologist for Kaiser-Francis Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.



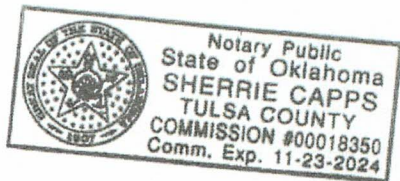
Lee J. Lindman

SUBSCRIBED AND SWORN TO before me this 13 day of June, 2022 by Sherrie Capps.

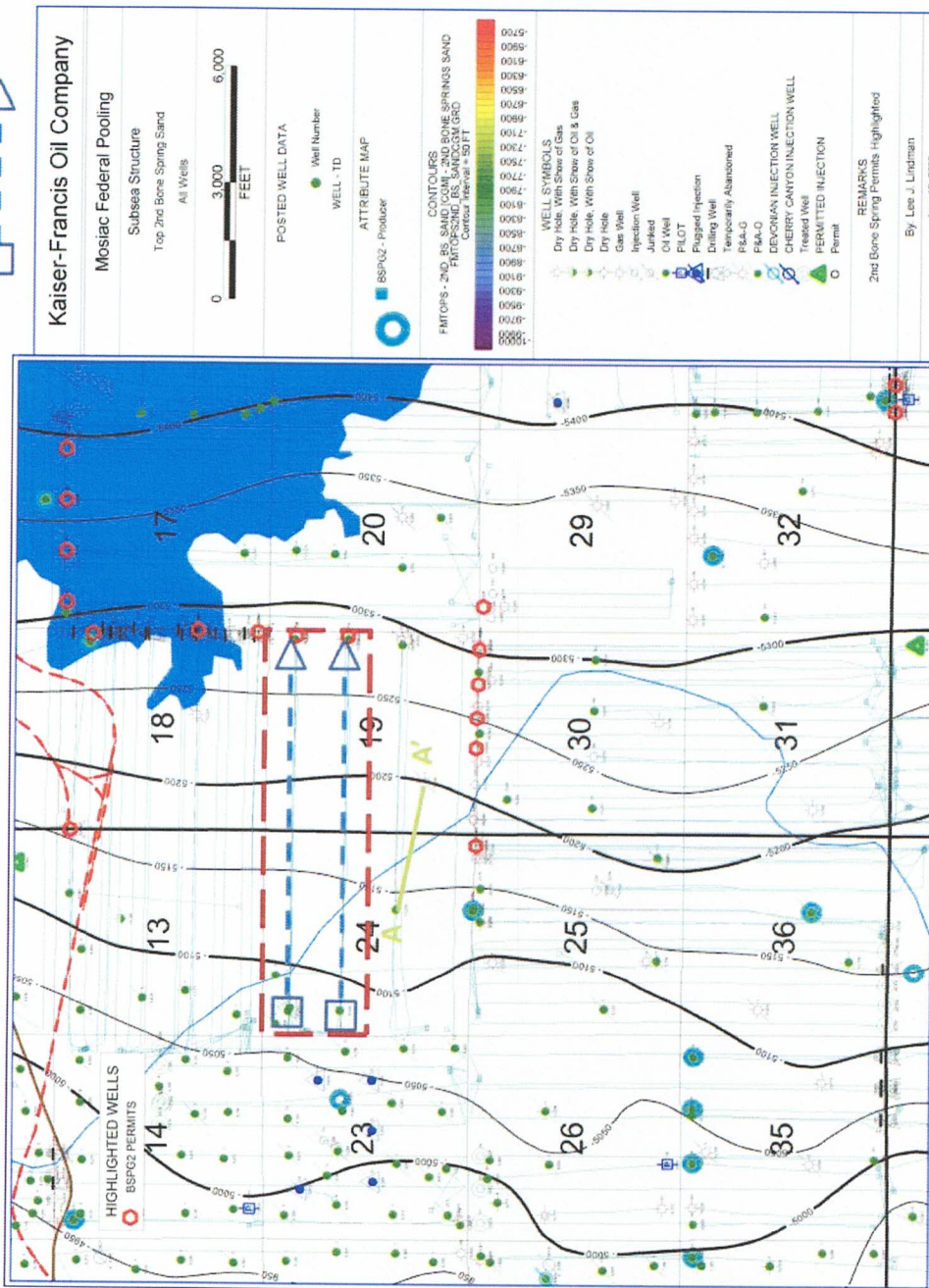
My Commission Expires: 11-23-2024



Notary Public



SHL  BHL 



Structure Map (Top 2nd Bone Spring Sand Subsea)

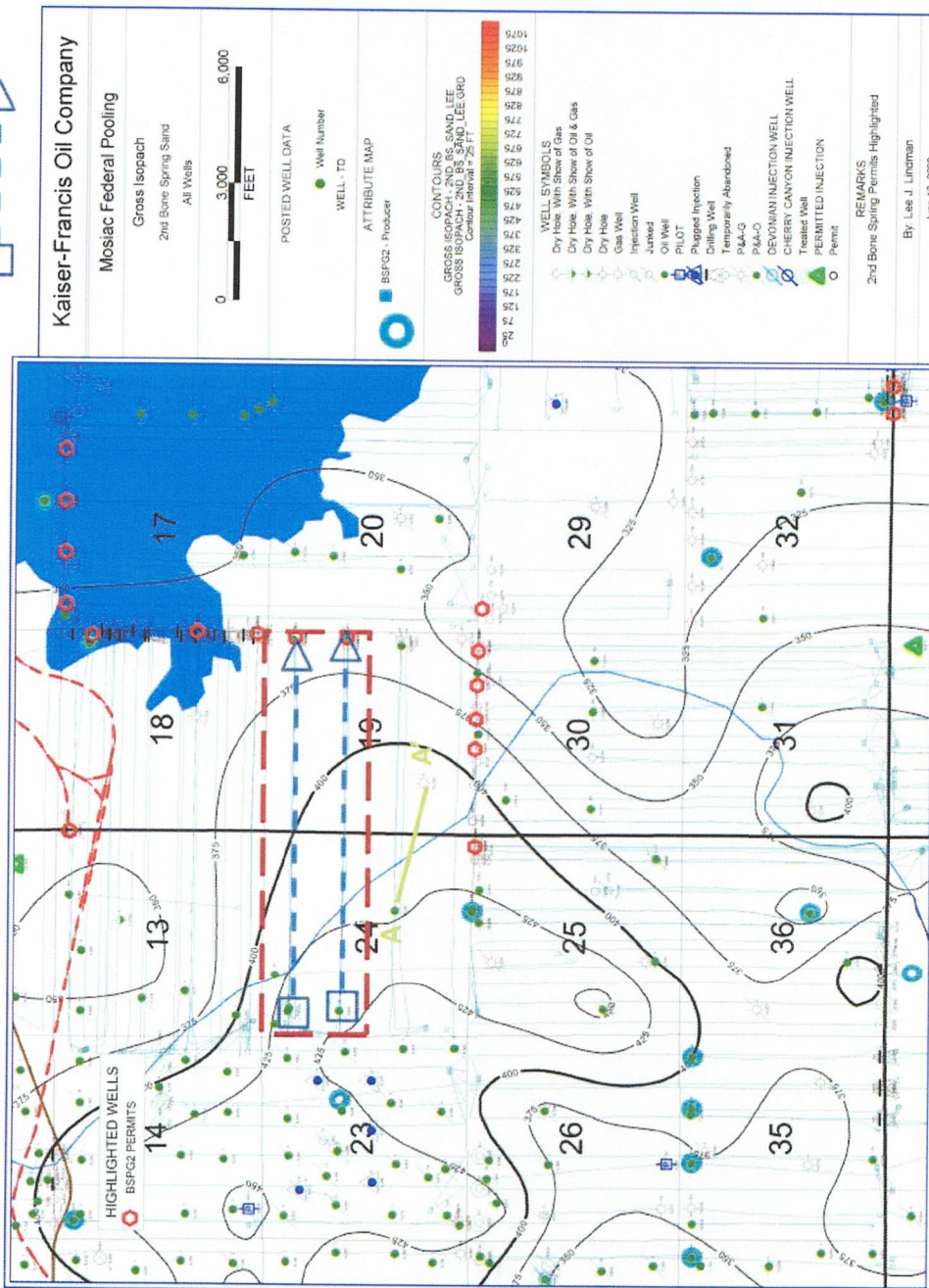
Project Area

ATTACHMENT 

ATTACHMENT

B

SHL BHL
□ --- ▷



Isopach Map (2nd Bone Spring Sand)

ATTACHMENT C

DEVON HARROUN TRST 19 12,200

PENROC OPER BRANTLEY B 13,240

WELL INFORMATION	
WELL NAME	HARROUN TRST 19 #1
WELL TYPE	PRODUCER
WELL STATUS	ACTIVE
WELL DEPTH (FT)	12200
WELL DATE	08/15/2022
WELL LOCATION	BRANTLEY B
WELL SURFACE ELEVATION (FT)	1000
WELL SURFACE AREA (SQ FT)	1000
WELL SURFACE PERIMETER (FT)	1000
WELL SURFACE AREA (AC)	1000
WELL SURFACE PERIMETER (MI)	1000
WELL SURFACE AREA (HECTARES)	1000
WELL SURFACE PERIMETER (KILOMETERS)	1000

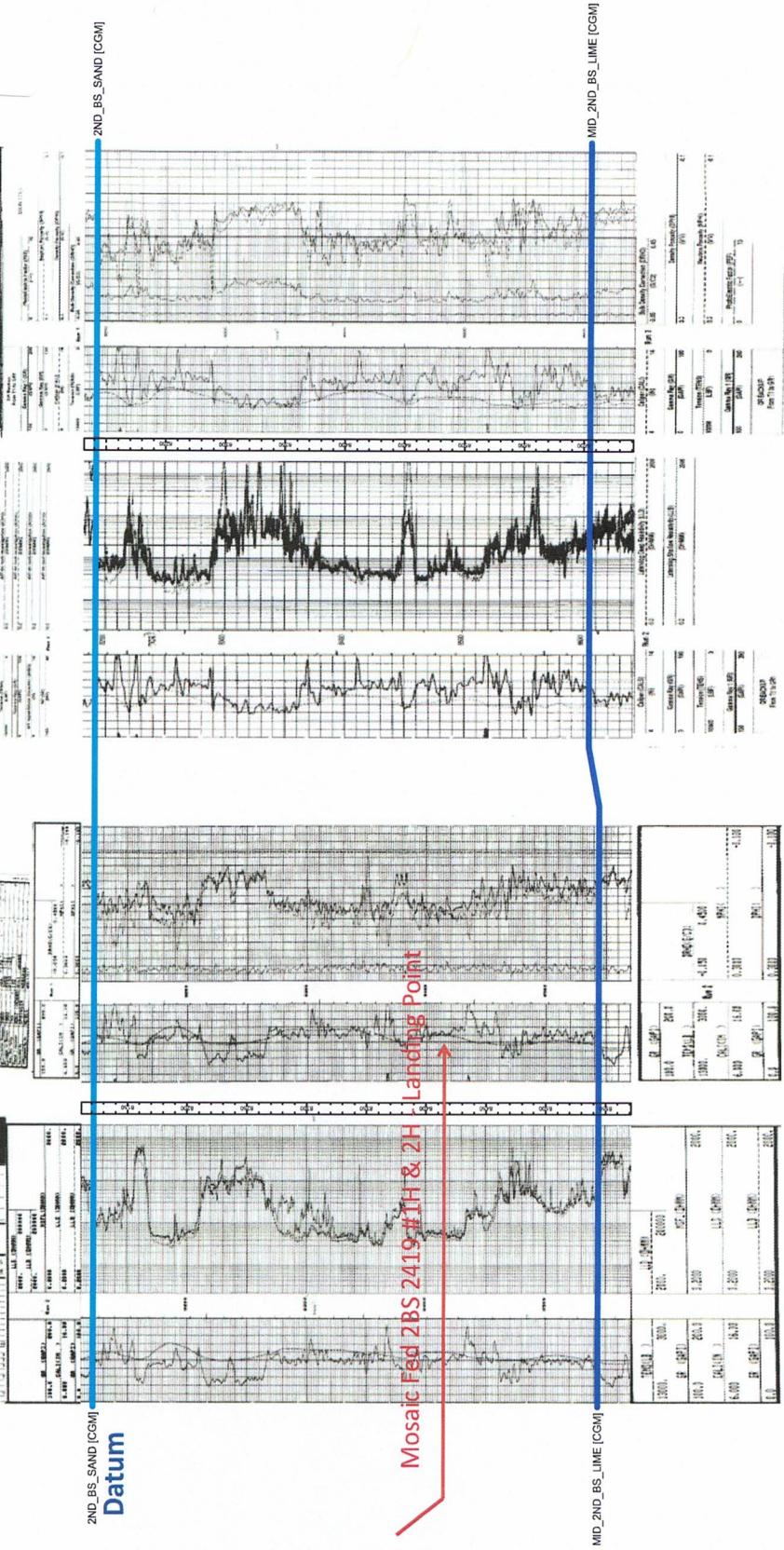
WELL INFORMATION	
WELL NAME	HARROUN TRST 19 #1
WELL TYPE	PRODUCER
WELL STATUS	ACTIVE
WELL DEPTH (FT)	12200
WELL DATE	08/15/2022
WELL LOCATION	BRANTLEY B
WELL SURFACE ELEVATION (FT)	1000
WELL SURFACE AREA (SQ FT)	1000
WELL SURFACE PERIMETER (FT)	1000
WELL SURFACE AREA (AC)	1000
WELL SURFACE PERIMETER (MI)	1000
WELL SURFACE AREA (HECTARES)	1000
WELL SURFACE PERIMETER (KILOMETERS)	1000

WELL INFORMATION	
WELL NAME	HARROUN TRST 19 #1
WELL TYPE	PRODUCER
WELL STATUS	ACTIVE
WELL DEPTH (FT)	12200
WELL DATE	08/15/2022
WELL LOCATION	BRANTLEY B
WELL SURFACE ELEVATION (FT)	1000
WELL SURFACE AREA (SQ FT)	1000
WELL SURFACE PERIMETER (FT)	1000
WELL SURFACE AREA (AC)	1000
WELL SURFACE PERIMETER (MI)	1000
WELL SURFACE AREA (HECTARES)	1000
WELL SURFACE PERIMETER (KILOMETERS)	1000

WELL INFORMATION	
WELL NAME	HARROUN TRST 19 #1
WELL TYPE	PRODUCER
WELL STATUS	ACTIVE
WELL DEPTH (FT)	12200
WELL DATE	08/15/2022
WELL LOCATION	BRANTLEY B
WELL SURFACE ELEVATION (FT)	1000
WELL SURFACE AREA (SQ FT)	1000
WELL SURFACE PERIMETER (FT)	1000
WELL SURFACE AREA (AC)	1000
WELL SURFACE PERIMETER (MI)	1000
WELL SURFACE AREA (HECTARES)	1000
WELL SURFACE PERIMETER (KILOMETERS)	1000

Rel Depth(ft) -10 -40 -90 -140 -190 -240 -290 -340 -390 -440

Rel Depth(ft) -10 -40 -90 -140 -190 -240 -290 -340 -390 -440



Stratigraphic Cross Section A - A'



KAISER FRANCIS OIL CO.

EDDY COUNTY, N.M. 27
SEC 24-T23S-R28E
MOSAIC FED 2419 2BS 1H

HORIZONTAL

Plan: PLAN 1

Standard Planning Report

10 June, 2022

ATTACHMENT

D

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 2BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Project	EDDY COUNTY, N.M. 27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SEC 24-T23S-R28E		
Site Position:		Northing:	471,315.07 usft
From:	Map	Easting:	587,964.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.29544072
		Longitude:	-104.04865757

Well	MOSAIC FED 2419 2BS 1H		
Well Position	+N/-S	0.00 usft	Northing: 471,145.13 usft
	+E/-W	0.00 usft	Easting: 587,994.45 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: 2,986.60 usft
Grid Convergence:		0.15 °	Ground Level: 2,986.60 usft

Wellbore	HORIZONTAL		
-----------------	------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/1/2022	6.66	59.86	47,389.60126605

Design	PLAN 1		
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Audit Notes:				
Version:	Phase:	PROTOTYPE	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	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
	6/10/2022	1	0.00	18,731.75	PLAN 1 (HORIZONTAL)	MWD+IGRF OWSG MWD + IGRF or WA

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	10.00	344.08	1,997.47	41.85	-11.94	2.00	2.00	0.00	344.08	
4,318.85	10.00	344.08	4,281.08	429.07	-122.41	0.00	0.00	0.00	0.00	
4,985.51	0.00	0.00	4,944.37	484.87	-138.33	1.50	-1.50	0.00	180.00	
8,063.68	0.00	0.00	8,022.54	484.87	-138.33	0.00	0.00	0.00	0.00	KOP MF2BS 1H
8,813.68	90.00	90.64	8,500.01	479.54	339.11	12.00	12.00	12.09	90.64	
18,731.75	90.00	90.64	8,500.00	368.89	10,256.55	0.00	0.00	0.00	0.00	PBHL MF2BS 1H



Planning Report

Kaiser-Francis Oil Company

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge 2°/100' DLS										
1,600.00	2.00	344.08	1,599.98	1.68	-0.48	-0.48	2.00	2.00	0.00	0.00
1,700.00	4.00	344.08	1,699.84	6.71	-1.91	-1.91	2.00	2.00	0.00	0.00
1,800.00	6.00	344.08	1,799.45	15.09	-4.31	-4.31	2.00	2.00	0.00	0.00
1,900.00	8.00	344.08	1,898.70	26.81	-7.65	-7.65	2.00	2.00	0.00	0.00
2,000.00	10.00	344.08	1,997.47	41.85	-11.94	-11.94	2.00	2.00	0.00	0.00
Hold 10° Inc										
2,100.00	10.00	344.08	2,095.95	58.55	-16.70	-16.70	0.00	0.00	0.00	0.00
2,200.00	10.00	344.08	2,194.43	75.25	-21.47	-21.47	0.00	0.00	0.00	0.00
2,300.00	10.00	344.08	2,292.91	91.95	-26.23	-26.23	0.00	0.00	0.00	0.00
2,400.00	10.00	344.08	2,391.39	108.65	-31.00	-31.00	0.00	0.00	0.00	0.00
2,500.00	10.00	344.08	2,489.87	125.35	-35.76	-35.76	0.00	0.00	0.00	0.00
2,600.00	10.00	344.08	2,588.35	142.04	-40.52	-40.52	0.00	0.00	0.00	0.00
2,700.00	10.00	344.08	2,686.83	158.74	-45.29	-45.29	0.00	0.00	0.00	0.00
2,800.00	10.00	344.08	2,785.31	175.44	-50.05	-50.05	0.00	0.00	0.00	0.00
2,900.00	10.00	344.08	2,883.79	192.14	-54.82	-54.82	0.00	0.00	0.00	0.00
3,000.00	10.00	344.08	2,982.27	208.84	-59.58	-59.58	0.00	0.00	0.00	0.00
3,100.00	10.00	344.08	3,080.75	225.54	-64.34	-64.34	0.00	0.00	0.00	0.00
3,200.00	10.00	344.08	3,179.23	242.24	-69.11	-69.11	0.00	0.00	0.00	0.00
3,300.00	10.00	344.08	3,277.72	258.93	-73.87	-73.87	0.00	0.00	0.00	0.00
3,400.00	10.00	344.08	3,376.20	275.63	-78.64	-78.64	0.00	0.00	0.00	0.00
3,500.00	10.00	344.08	3,474.68	292.33	-83.40	-83.40	0.00	0.00	0.00	0.00
3,600.00	10.00	344.08	3,573.16	309.03	-88.16	-88.16	0.00	0.00	0.00	0.00
3,700.00	10.00	344.08	3,671.64	325.73	-92.93	-92.93	0.00	0.00	0.00	0.00
3,800.00	10.00	344.08	3,770.12	342.43	-97.69	-97.69	0.00	0.00	0.00	0.00
3,900.00	10.00	344.08	3,868.60	359.13	-102.46	-102.46	0.00	0.00	0.00	0.00
4,000.00	10.00	344.08	3,967.08	375.82	-107.22	-107.22	0.00	0.00	0.00	0.00
4,100.00	10.00	344.08	4,065.56	392.52	-111.98	-111.98	0.00	0.00	0.00	0.00
4,200.00	10.00	344.08	4,164.04	409.22	-116.75	-116.75	0.00	0.00	0.00	0.00
4,300.00	10.00	344.08	4,262.52	425.92	-121.51	-121.51	0.00	0.00	0.00	0.00
4,318.85	10.00	344.08	4,281.09	429.07	-122.41	-122.41	0.00	0.00	0.00	0.00
Start Drop 1.5°/100' DLS										
4,400.00	8.78	344.08	4,361.15	441.80	-126.04	-126.04	1.50	-1.50	0.00	0.00
4,500.00	7.28	344.08	4,460.16	455.24	-129.88	-129.88	1.50	-1.50	0.00	0.00
4,600.00	5.78	344.08	4,559.51	466.18	-133.00	-133.00	1.50	-1.50	0.00	0.00
4,700.00	4.28	344.08	4,659.12	474.61	-135.40	-135.40	1.50	-1.50	0.00	0.00
4,800.00	2.78	344.08	4,758.93	480.54	-137.09	-137.09	1.50	-1.50	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

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Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	1.28	344.08	4,858.86	483.95	-138.07	-138.07	1.50	-1.50	0.00
4,985.51	0.00	0.00	4,944.37	484.87	-138.33	-138.33	1.50	-1.50	0.00
5,000.00	0.00	0.00	4,958.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,100.00	0.00	0.00	5,058.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,200.00	0.00	0.00	5,158.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,300.00	0.00	0.00	5,258.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,400.00	0.00	0.00	5,358.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,500.00	0.00	0.00	5,458.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,600.00	0.00	0.00	5,558.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,700.00	0.00	0.00	5,658.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,800.00	0.00	0.00	5,758.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,900.00	0.00	0.00	5,858.86	484.87	-138.33	-138.33	0.00	0.00	0.00
5,985.51	0.00	0.00	5,944.37	484.87	-138.33	-138.33	0.00	0.00	0.00
Hold 0° Inc									
6,000.00	0.00	0.00	5,958.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,100.00	0.00	0.00	6,058.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,200.00	0.00	0.00	6,158.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,300.00	0.00	0.00	6,258.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,400.00	0.00	0.00	6,358.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,500.00	0.00	0.00	6,458.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,600.00	0.00	0.00	6,558.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,700.00	0.00	0.00	6,658.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,800.00	0.00	0.00	6,758.86	484.87	-138.33	-138.33	0.00	0.00	0.00
6,900.00	0.00	0.00	6,858.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,000.00	0.00	0.00	6,958.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,100.00	0.00	0.00	7,058.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,200.00	0.00	0.00	7,158.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,300.00	0.00	0.00	7,258.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,400.00	0.00	0.00	7,358.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,500.00	0.00	0.00	7,458.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,600.00	0.00	0.00	7,558.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,700.00	0.00	0.00	7,658.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,800.00	0.00	0.00	7,758.86	484.87	-138.33	-138.33	0.00	0.00	0.00
7,900.00	0.00	0.00	7,858.86	484.87	-138.33	-138.33	0.00	0.00	0.00
8,000.00	0.00	0.00	7,958.86	484.87	-138.33	-138.33	0.00	0.00	0.00
8,063.68	0.00	0.00	8,022.54	484.87	-138.33	-138.33	0.00	0.00	0.00
KOP 12°/100' DLS									
8,075.00	1.36	90.64	8,033.86	484.87	-138.20	-138.20	12.00	12.00	0.00
8,100.00	4.36	90.64	8,058.82	484.85	-136.95	-136.95	12.00	12.00	0.00
8,125.00	7.36	90.64	8,083.69	484.83	-134.40	-134.40	12.00	12.00	0.00
8,150.00	10.36	90.64	8,108.39	484.78	-130.55	-130.55	12.00	12.00	0.00
8,175.00	13.36	90.64	8,132.85	484.73	-125.41	-125.41	12.00	12.00	0.00
8,200.00	16.36	90.64	8,157.01	484.65	-119.00	-119.00	12.00	12.00	0.00
8,225.00	19.36	90.64	8,180.81	484.57	-111.34	-111.34	12.00	12.00	0.00
8,250.00	22.36	90.64	8,204.16	484.47	-102.44	-102.44	12.00	12.00	0.00
8,275.00	25.36	90.64	8,227.03	484.36	-92.33	-92.33	12.00	12.00	0.00
8,300.00	28.36	90.64	8,249.33	484.23	-81.04	-81.04	12.00	12.00	0.00
8,325.00	31.36	90.64	8,271.01	484.09	-68.59	-68.59	12.00	12.00	0.00
8,350.00	34.36	90.64	8,292.00	483.94	-55.03	-55.03	12.00	12.00	0.00
8,375.00	37.36	90.64	8,312.26	483.78	-40.39	-40.39	12.00	12.00	0.00
8,400.00	40.36	90.64	8,331.73	483.60	-24.71	-24.71	12.00	12.00	0.00
8,425.00	43.36	90.64	8,350.35	483.42	-8.03	-8.03	12.00	12.00	0.00
8,450.00	46.36	90.64	8,368.07	483.22	9.60	9.60	12.00	12.00	0.00
8,475.00	49.36	90.64	8,384.84	483.01	28.14	28.14	12.00	12.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well MOSAIC FED 2419 2BS 1H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	52.36	90.64	8,400.62	482.80	47.52	47.52	12.00	12.00	0.00
8,525.00	55.36	90.64	8,415.36	482.57	67.71	67.71	12.00	12.00	0.00
8,550.00	58.36	90.64	8,429.03	482.34	88.64	88.64	12.00	12.00	0.00
8,575.00	61.36	90.64	8,441.58	482.10	110.25	110.25	12.00	12.00	0.00
8,600.00	64.36	90.64	8,452.98	481.85	132.50	132.50	12.00	12.00	0.00
8,625.00	67.36	90.64	8,463.21	481.59	155.31	155.31	12.00	12.00	0.00
8,650.00	70.36	90.64	8,472.22	481.33	178.62	178.62	12.00	12.00	0.00
8,675.00	73.36	90.64	8,480.01	481.07	202.37	202.37	12.00	12.00	0.00
8,700.00	76.36	90.64	8,486.54	480.80	226.50	226.50	12.00	12.00	0.00
8,725.00	79.36	90.64	8,491.79	480.53	250.94	250.94	12.00	12.00	0.00
8,750.00	82.36	90.64	8,495.76	480.25	275.62	275.62	12.00	12.00	0.00
8,775.00	85.36	90.64	8,498.44	479.97	300.47	300.47	12.00	12.00	0.00
8,800.00	88.36	90.64	8,499.81	479.70	325.43	325.43	12.00	12.00	0.00
8,813.68	90.00	90.64	8,500.01	479.54	339.10	339.10	12.00	12.00	0.00
LP 8814' MD/ 8500' TVD									
8,900.00	90.00	90.64	8,500.00	478.58	425.42	425.42	0.00	0.00	0.00
9,000.00	90.00	90.64	8,500.00	477.46	525.41	525.41	0.00	0.00	0.00
9,100.00	90.00	90.64	8,500.00	476.35	625.40	625.40	0.00	0.00	0.00
9,200.00	90.00	90.64	8,500.00	475.23	725.40	725.40	0.00	0.00	0.00
9,300.00	90.00	90.64	8,500.00	474.12	825.39	825.39	0.00	0.00	0.00
9,400.00	90.00	90.64	8,500.00	473.00	925.39	925.39	0.00	0.00	0.00
9,500.00	90.00	90.64	8,500.00	471.89	1,025.38	1,025.38	0.00	0.00	0.00
9,600.00	90.00	90.64	8,500.00	470.77	1,125.37	1,125.37	0.00	0.00	0.00
9,700.00	90.00	90.64	8,500.00	469.65	1,225.37	1,225.37	0.00	0.00	0.00
9,800.00	90.00	90.64	8,500.00	468.54	1,325.36	1,325.36	0.00	0.00	0.00
9,900.00	90.00	90.64	8,500.00	467.42	1,425.35	1,425.35	0.00	0.00	0.00
10,000.00	90.00	90.64	8,500.00	466.31	1,525.35	1,525.35	0.00	0.00	0.00
10,100.00	90.00	90.64	8,500.00	465.19	1,625.34	1,625.34	0.00	0.00	0.00
10,200.00	90.00	90.64	8,500.00	464.08	1,725.34	1,725.34	0.00	0.00	0.00
10,300.00	90.00	90.64	8,500.00	462.96	1,825.33	1,825.33	0.00	0.00	0.00
10,400.00	90.00	90.64	8,500.00	461.84	1,925.32	1,925.32	0.00	0.00	0.00
10,500.00	90.00	90.64	8,500.00	460.73	2,025.32	2,025.32	0.00	0.00	0.00
10,600.00	90.00	90.64	8,500.00	459.61	2,125.31	2,125.31	0.00	0.00	0.00
10,700.00	90.00	90.64	8,500.00	458.50	2,225.31	2,225.31	0.00	0.00	0.00
10,800.00	90.00	90.64	8,500.00	457.38	2,325.30	2,325.30	0.00	0.00	0.00
10,900.00	90.00	90.64	8,500.00	456.27	2,425.29	2,425.29	0.00	0.00	0.00
11,000.00	90.00	90.64	8,500.00	455.15	2,525.29	2,525.29	0.00	0.00	0.00
11,100.00	90.00	90.64	8,500.00	454.04	2,625.28	2,625.28	0.00	0.00	0.00
11,200.00	90.00	90.64	8,500.00	452.92	2,725.27	2,725.27	0.00	0.00	0.00
11,300.00	90.00	90.64	8,500.00	451.80	2,825.27	2,825.27	0.00	0.00	0.00
11,400.00	90.00	90.64	8,500.00	450.69	2,925.26	2,925.26	0.00	0.00	0.00
11,500.00	90.00	90.64	8,500.00	449.57	3,025.26	3,025.26	0.00	0.00	0.00
11,600.00	90.00	90.64	8,500.00	448.46	3,125.25	3,125.25	0.00	0.00	0.00
11,700.00	90.00	90.64	8,500.00	447.34	3,225.24	3,225.24	0.00	0.00	0.00
11,800.00	90.00	90.64	8,500.00	446.23	3,325.24	3,325.24	0.00	0.00	0.00
11,900.00	90.00	90.64	8,500.00	445.11	3,425.23	3,425.23	0.00	0.00	0.00
12,000.00	90.00	90.64	8,500.00	443.99	3,525.22	3,525.22	0.00	0.00	0.00
12,100.00	90.00	90.64	8,500.00	442.88	3,625.22	3,625.22	0.00	0.00	0.00
12,200.00	90.00	90.64	8,500.00	441.76	3,725.21	3,725.21	0.00	0.00	0.00
12,300.00	90.00	90.64	8,500.00	440.65	3,825.21	3,825.21	0.00	0.00	0.00
12,400.00	90.00	90.64	8,500.00	439.53	3,925.20	3,925.20	0.00	0.00	0.00
12,500.00	90.00	90.64	8,500.00	438.42	4,025.19	4,025.19	0.00	0.00	0.00
12,600.00	90.00	90.64	8,500.00	437.30	4,125.19	4,125.19	0.00	0.00	0.00
12,700.00	90.00	90.64	8,500.00	436.18	4,225.18	4,225.18	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

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Project:	EDDY COUNTY, N.M. 27	MD Reference:	GE+24' @ 3010.60usft (Original Well Elev)
Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,800.00	90.00	90.64	8,500.00	435.07	4,325.17	4,325.17	0.00	0.00	0.00
12,900.00	90.00	90.64	8,500.00	433.95	4,425.17	4,425.17	0.00	0.00	0.00
13,000.00	90.00	90.64	8,500.00	432.84	4,525.16	4,525.16	0.00	0.00	0.00
13,100.00	90.00	90.64	8,500.00	431.72	4,625.16	4,625.16	0.00	0.00	0.00
13,200.00	90.00	90.64	8,500.00	430.61	4,725.15	4,725.15	0.00	0.00	0.00
13,300.00	90.00	90.64	8,500.00	429.49	4,825.14	4,825.14	0.00	0.00	0.00
13,400.00	90.00	90.64	8,500.00	428.37	4,925.14	4,925.14	0.00	0.00	0.00
13,500.00	90.00	90.64	8,500.00	427.26	5,025.13	5,025.13	0.00	0.00	0.00
13,600.00	90.00	90.64	8,500.00	426.14	5,125.12	5,125.12	0.00	0.00	0.00
13,700.00	90.00	90.64	8,500.00	425.03	5,225.12	5,225.12	0.00	0.00	0.00
13,800.00	90.00	90.64	8,500.00	423.91	5,325.11	5,325.11	0.00	0.00	0.00
13,900.00	90.00	90.64	8,500.00	422.80	5,425.11	5,425.11	0.00	0.00	0.00
14,000.00	90.00	90.64	8,500.00	421.68	5,525.10	5,525.10	0.00	0.00	0.00
14,100.00	90.00	90.64	8,500.00	420.57	5,625.09	5,625.09	0.00	0.00	0.00
14,200.00	90.00	90.64	8,500.00	419.45	5,725.09	5,725.09	0.00	0.00	0.00
14,300.00	90.00	90.64	8,500.00	418.33	5,825.08	5,825.08	0.00	0.00	0.00
14,400.00	90.00	90.64	8,500.00	417.22	5,925.07	5,925.07	0.00	0.00	0.00
14,500.00	90.00	90.64	8,500.00	416.10	6,025.07	6,025.07	0.00	0.00	0.00
14,600.00	90.00	90.64	8,500.00	414.99	6,125.06	6,125.06	0.00	0.00	0.00
14,700.00	90.00	90.64	8,500.00	413.87	6,225.06	6,225.06	0.00	0.00	0.00
14,800.00	90.00	90.64	8,500.00	412.76	6,325.05	6,325.05	0.00	0.00	0.00
14,900.00	90.00	90.64	8,500.00	411.64	6,425.04	6,425.04	0.00	0.00	0.00
15,000.00	90.00	90.64	8,500.00	410.52	6,525.04	6,525.04	0.00	0.00	0.00
15,100.00	90.00	90.64	8,500.00	409.41	6,625.03	6,625.03	0.00	0.00	0.00
15,200.00	90.00	90.64	8,500.00	408.29	6,725.03	6,725.03	0.00	0.00	0.00
15,300.00	90.00	90.64	8,500.00	407.18	6,825.02	6,825.02	0.00	0.00	0.00
15,400.00	90.00	90.64	8,500.00	406.06	6,925.01	6,925.01	0.00	0.00	0.00
15,500.00	90.00	90.64	8,500.00	404.95	7,025.01	7,025.01	0.00	0.00	0.00
15,600.00	90.00	90.64	8,500.00	403.83	7,125.00	7,125.00	0.00	0.00	0.00
15,700.00	90.00	90.64	8,500.00	402.71	7,224.99	7,224.99	0.00	0.00	0.00
15,800.00	90.00	90.64	8,500.00	401.60	7,324.99	7,324.99	0.00	0.00	0.00
15,900.00	90.00	90.64	8,500.00	400.48	7,424.98	7,424.98	0.00	0.00	0.00
16,000.00	90.00	90.64	8,500.00	399.37	7,524.98	7,524.98	0.00	0.00	0.00
16,100.00	90.00	90.64	8,500.00	398.25	7,624.97	7,624.97	0.00	0.00	0.00
16,200.00	90.00	90.64	8,500.00	397.14	7,724.96	7,724.96	0.00	0.00	0.00
16,300.00	90.00	90.64	8,500.00	396.02	7,824.96	7,824.96	0.00	0.00	0.00
16,400.00	90.00	90.64	8,500.00	394.90	7,924.95	7,924.95	0.00	0.00	0.00
16,500.00	90.00	90.64	8,500.00	393.79	8,024.94	8,024.94	0.00	0.00	0.00
16,600.00	90.00	90.64	8,500.00	392.67	8,124.94	8,124.94	0.00	0.00	0.00
16,700.00	90.00	90.64	8,500.00	391.56	8,224.93	8,224.93	0.00	0.00	0.00
16,800.00	90.00	90.64	8,500.00	390.44	8,324.93	8,324.93	0.00	0.00	0.00
16,900.00	90.00	90.64	8,500.00	389.33	8,424.92	8,424.92	0.00	0.00	0.00
17,000.00	90.00	90.64	8,500.00	388.21	8,524.91	8,524.91	0.00	0.00	0.00
17,100.00	90.00	90.64	8,500.00	387.09	8,624.91	8,624.91	0.00	0.00	0.00
17,200.00	90.00	90.64	8,500.00	385.98	8,724.90	8,724.90	0.00	0.00	0.00
17,300.00	90.00	90.64	8,500.00	384.86	8,824.89	8,824.89	0.00	0.00	0.00
17,400.00	90.00	90.64	8,500.00	383.75	8,924.89	8,924.89	0.00	0.00	0.00
17,500.00	90.00	90.64	8,500.00	382.63	9,024.88	9,024.88	0.00	0.00	0.00
17,600.00	90.00	90.64	8,500.00	381.52	9,124.88	9,124.88	0.00	0.00	0.00
17,700.00	90.00	90.64	8,500.00	380.40	9,224.87	9,224.87	0.00	0.00	0.00
17,800.00	90.00	90.64	8,500.00	379.29	9,324.86	9,324.86	0.00	0.00	0.00
17,900.00	90.00	90.64	8,500.00	378.17	9,424.86	9,424.86	0.00	0.00	0.00
18,000.00	90.00	90.64	8,500.00	377.05	9,524.85	9,524.85	0.00	0.00	0.00
18,100.00	90.00	90.64	8,500.00	375.94	9,624.84	9,624.84	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

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Site:	SEC 24-T23S-R28E	North Reference:	Grid
Well:	MOSAIC FED 2419 2BS 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,200.00	90.00	90.64	8,500.00	374.82	9,724.84	9,724.84	0.00	0.00	0.00
18,300.00	90.00	90.64	8,500.00	373.71	9,824.83	9,824.83	0.00	0.00	0.00
18,400.00	90.00	90.64	8,500.00	372.59	9,924.83	9,924.83	0.00	0.00	0.00
18,500.00	90.00	90.64	8,500.00	371.48	10,024.82	10,024.82	0.00	0.00	0.00
18,600.00	90.00	90.64	8,500.00	370.36	10,124.81	10,124.81	0.00	0.00	0.00
18,700.00	90.00	90.64	8,500.00	369.24	10,224.81	10,224.81	0.00	0.00	0.00
18,731.74	90.00	90.64	8,500.00	368.89	10,256.55	10,256.55	0.00	0.00	0.00

PBHL 18732' MD/ 8500' TVD

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP MF2BS 1H - hit/miss target - Shape - Point	0.00	0.01	8,022.54	484.87	-138.33	471,630.00	587,856.12	32.29630723	-104.04900399
LP MF 2BS 1H - plan misses target center by 0.01usft at 8813.69usft MD (8500.00 TVD, 479.54 N, 339.11 E) - Point	0.00	0.00	8,500.00	479.54	339.11	471,624.67	588,333.56	32.29628909	-104.04745891
PBHL MF2BS 1H - plan hits target center - Point	0.00	0.01	8,500.00	368.89	10,256.55	471,514.02	598,251.00	32.29590816	-104.01536451

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000.00	1,000.00	SFC CSG	16	24	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.00	1,500.00	0.00	0.00	Nudge 2°/100' DLS
2,000.00	1,997.47	41.85	-11.94	Hold 10° Inc
4,318.85	4,281.09	429.07	-122.41	Start Drop 1.5°/100' DLS
5,985.51	5,944.37	484.87	-138.33	Hold 0° Inc
8,063.68	8,022.54	484.87	-138.33	KOP 12°/100' DLS
8,813.68	8,500.01	479.54	339.10	LP 8814' MD/ 8500' TVD
18,731.74	8,500.00	368.89	10,256.55	PBHL 18732' MD/ 8500' TVD

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATIONS OF KAISER-FRANCIS OIL
COMPANY FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.

Case Nos. 22975 & 22976

SELF-AFFIRMED STATEMENT OF NOTICE

COUNTY OF SANTA FE)
) ss.
STATE OF NEW MEXICO)

James Bruce deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Kaiser-Francis Oil Company.
3. Kaiser-Francis Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the interest owner, at its correct addresses, by certified mail. Copies of the notice letter and certified return receipt are submitted as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules.
6. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 5 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 8/29/22

James Bruce
James Bruce

EXHIBIT 4

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)
jamesbruc@aol.com

August 9, 2022

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Chevron U.S.A. Inc.
6301 Deauville Boulevard
Midland, Texas 79706

Attention: Permitting Team

Ladies and gentlemen:

ATTACHMENT

A

Enclosed are copies of the following applications for compulsory pooling, filed with the New Mexico Oil Conservation Division by Kaiser-Francis Oil Company, seeking to pool all uncommitted mineral interest owners in the Bone Spring formation underlying the following horizontal well units:

(a) Case No. 22975: the N/2N/2 of Section 24, Township 23 South, Range 28 East, NMPM and Lot 1, NE/4NW/4, and N/2NE/4 (the N/2N/2) of Section 19, Township 23 South, Range 29 East, NMPM. The unit will be dedicated to the Mosaic Fed. 2419 1BS Well No. 1H and the Mosaic Fed. 2419 2BS Well No. 1H; and

(b) Case No. 22976: the S/2N/2 of Section 24, Township 23 South, Range 28 East, NMPM and Lot 2, SE/4NW/4, and S/2NE/4 (the S/2N/2) of Section 19, Township 23 South, Range 29 East, NMPM. The unit will be dedicated to the Mosaic Fed. 2419 1BS Well No. 2H and the Mosaic Fed. 2419 2BS Well No. 2H,

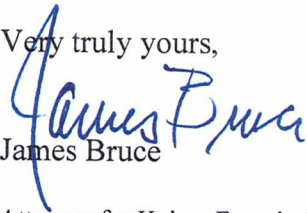
all in Eddy County, New Mexico.

These matters are scheduled for hearing at 8:15 a.m. on Thursday, September 1, 2022. During the COVID-19 Public Health Emergency, state buildings are closed to the public and the hearing will be conducted remotely. To determine the location of the hearing or to participate in an electronic hearing, go to emnrd.state.nm.us/OCD/hearings or see the instructions posted on the Division's website, <http://emnrd.state.nm.us/OCD/announcements.html>. You are not required to

attend this hearing, but as an owner of an interest who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than five business days before the hearing date. This statement may be filed online with the Division at ocd.hearings@state.nm.us, and should include: The name of the party and his or her attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate time the party will need to present his or her case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

A handwritten signature in blue ink that reads "James Bruce". The signature is written in a cursive style with a large initial "J".

James Bruce

Attorney for Kaiser-Francis Oil Company

7021 0950 0002 0374 2378

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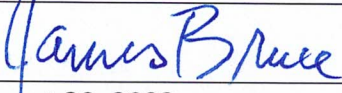
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Lambert</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Stephanie Gamba</i></p> <p>C. Date of Delivery <i>8/15/11</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
<p>1. Article Addressed to:</p> <p>Chevron U.S.A. Inc. 6301 Deauville Boulevard Midland, Texas 79706</p> <p>9590 9402 7543 2098 9330 07</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
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<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<input type="checkbox"/> Collect on Delivery Restricted Delivery													
<p>2. Article Number (Transfer from service label)</p> <p>7021 0950 0002 0374 2378</p>	<p>Restricted Delivery</p>												
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt												

COMPULSORY POOLING APPLICATION CHECKLIST**ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

Case:	22975	
Date	September 1, 2022	
Applicant	Kaiser-Francis Oil Company	
Designated Operator & OGRID (affiliation if applicable)	Kaiser-Francis Oil Company/OGRID No. 12361	
Applicant's Counsel:	James Bruce	
Case Title:	Application of Kaiser-Francis Oil Company for Compulsory Pooling, Eddy County, New Mexico	
Entries of Appearance/Intervenors:		
Well Family	Mosaic Bone Spring Wells	
Formation/Pool		
Formation Name(s) or Vertical Extent:	Bone Spring Formation	
Primary Product (Oil or Gas):	Oil	
Pooling this vertical extent:	Entire Bone Spring formation	
Pool Name and Pool Code:	Culebra Bluff; Bone Spring, South/Pool Code 15001	
Well Location Setback Rules:	Statewide rules and current horizontal well rules	
Spacing Unit Size:	Quarter-quarter Section/40 acres	
Spacing Unit		
Type (Horizontal/Vertical)	Horizontal	
Size (Acres)	320 acres	
Building Blocks:	40 acres	
Orientation:	West-East	
Description: TRS/County	N/2N/2 §24-23S-28E and N/2N/2 §19-23S-29E, NMPM, Eddy County	
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes	
Other Situations		
Depth Severance: Y/N. If yes, description	No	EXHIBIT 5
Proximity Tracts: If yes, description	No	
Proximity Defining Well: if yes, description		
Applicant's Ownership in Each Tract	Exhibits 2-A and 2-C	
Well(s)		
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Mosaic Fed. 2419 1BS Well No. 1H API No. 30-015-Pending SHL: 1075 FNL & 186 FWL §24 BHL: 660 FNL & 100 FEL §19 FTP: 660 FNL & 100 FWL §24 LTP: 660 FNL & 100 FEL §19 First Bone Spring Sand/TVD 7450 feet/MD 17750 feet	

	Mosaic Fed. 2419 2BS Well No. 1H API No. 30-015-Pending SHL: 1155 FNL & 186 FWL §24 BHL: 660 FNL & 100 FEL §19 FTP: 660 FNL & 100 FWL §24 LTP: 660 FNL & 100 FEL §19 Second Bone Spring Sand/TVD 8900 feet/MD 19200 feet
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See above
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit 2, page 2
Requested Risk Charge	Cost + 200%/Exhibit 2, page 2
Notice of Hearing	
Proposed Notice of Hearing	Exhibit 1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit 4
Proof of Published Notice of Hearing (10 days before hearing)	Not needed
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit 2-A
Tract List (including lease numbers and owners)	Exhibit 2-A
Pooled Parties (including ownership type)	Exhibit 2-C
Unlocatable Parties to be Pooled	Not applicable
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit 2-D
List of Interest Owners (<i>i.e.</i> Exhibit A of JOA)	Exhibit 2-C
Chronology of Contact with Non-Joined Working Interests	Exhibit 2-D
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit 2-E
Cost Estimate to Equip Well	Exhibit 2-E
Cost Estimate for Production Facilities	Exhibit 2-E
Geology	
Summary (including special considerations)	Exhibits 3.1 and 3.2
Spacing Unit Schematic	Exhibits 3.1-A and 3.2-A
Gunbarrel/Lateral Trajectory Schematic	Exhibit 3-C
Well Orientation (with rationale)	No preference/Exhibit 3, page 2
Target Formation	First Bone Spring Sand and Second Bone Spring Sand

HSO Cross Section	Exhibits 3.1-C and 3.2-C
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit 2-B
Tracts	Exhibit 2-A
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit 2-C
General Location Map (including basin)	Exhibits 3.1-A and 3.2-A
Well Bore Location Map	Exhibit 2-B
Structure Contour Map - Subsea Depth	Exhibits 3.1-A and 3.2-A
Cross Section Location Map (including wells)	Exhibits 3.1-A and 3.2-A
Cross Section (including Landing Zone)	Exhibits 3.1-C and 3.2-C
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	August 30, 2022