

CASE NO. 21176

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

EXHIBITS

1. Application and Proposed Ad
2. Landman's Affidavit
3. Geologist's Affidavit
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. 21176

APPLICATION

Kaiser-Francis Oil Company applies for an order pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit comprised of the S/2 of Section 24, Township 23 South, Range 28 East, N.M.P.M. and Lots 3, 4, E/2SW/4, and SE/4 (the S/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 S/2 of Section 24 and the S/2 of Section 19, and has the right to drill a well or wells thereon.
2. Applicant proposes to drill the Brantley Fee 2419 WC Well No. 2H to a depth sufficient to test the Wolfcamp formation, with a first take point in the SW/4SW/4 of Section 24 and a final take point in the SE/4SE/4 of Section 19;
3. Applicant has in good faith sought to obtain the voluntary joinder of all other mineral interest owners in the Wolfcamp formation underlying the S/2 of Section 24 and the S/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 well 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 mineral interest owners in the Wolfcamp formation underlying the S/2 of Section 24 and the S/2 of Section 19, pursuant to NMSA 1978 §70-2-17.

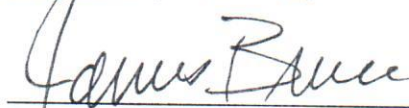
EXHIBIT |

5. The pooling of all mineral interests in the Wolfcamp formation underlying the S/2 of Section 24 and the S/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 mineral interests in the Wolfcamp formation underlying the S/2 of Section 24 and the S/2 of Section 19;
- B. Designating applicant as operator of the well;
- C. Considering the cost of drilling and completing the well, 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 well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,



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

Attorney for Kaiser-Francis Oil Company

PROPOSED ADVERTISEMENT

Case No. _____:

Application of Kaiser-Francis Oil Company for compulsory pooling, Eddy County, New Mexico. Kaiser-Francis Oil Company seeks an order pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit comprised of the S/2 of Section 24, Township 23 South, Range 28 East, NMPM and Lots 3, 4, E/2SW/4, and SE/4 (the S/2) of Section 19, Township 23 South, Range 29 East, NMPM. The unit will be dedicated to the Brantley Fee 2419 WC Well No. 2H, with a first take point in the SW/4SW/4 of Section 24 and a last take point in the SE/4SE/4 of Section 19. Also to be considered will be the cost of drilling and completing the well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a cost plus 200% charge for the risk involved in drilling and completing the well. The unit is located approximately 4-1/2 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 FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.**

Case No. 21176

VERIFIED STATEMENT OF MICHAEL MAXEY

Michael Maxey, 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. Pursuant to Division Rules, the following information is submitted in support of the compulsory pooling application:

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

(b) No opposition is expected because the interest owner being pooled has been contacted regarding the proposed well, but has simply failed to voluntarily commit its interest to the well unit.

All interest owners are locatable.

(c) A Midland Map Co. plat outlining the unit being pooled is attached hereto as Attachment A. KFOC seeks an order pooling the Wolfcamp formation underlying a horizontal spacing unit comprised of the S/2 of Section 24, Township 23 South, Range 28 East, NMPM and Lots 3, 4, E/2SW/4, and SE/4 (the S/2) of Section 19, Township 23 South, Range 29 East, NMPM, containing 637.01 acres. The unit will be dedicated to the Brantley Fee 2419 WC Well No. 2H, with a first take point in the SW/4SW/4 of Section 24 and a last take point in the SE/4SE/4 of Section 19. A Form C-102 is part of Attachment A.

The well is in the Purple Sage; Wolfcamp Gas Pool (Pool Code 98220). The well will be completed in the (lower) Wolfcamp (shale), as follows:

TVD of approximately 10,711 feet

EXHIBIT

2

MD of approximately 21,000 feet

SHL 543' FSL and 185 FWL of Sec. 24-23S-28E

BHL 330' FSL and 330 FEL of Sec. 19-23S-29E

FTP 330' FSL and 330 FWL of Sec. 24-23S-28E

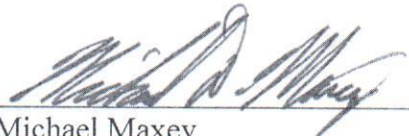
LTP 330' FSL and 330' FEL of Sec. 19-23S-29E

- (d) There is no depth severance in the Wolfcamp formation.
- (e) The party being pooled and its total percentage interest in the well unit is set forth in Attachment B. Attachment B also contains a listing of the tracts in the well unit.
- (f) Attachment C contains a summary of contacts with the pooled interest owner together with a copy of the proposal letter. KFOC has made a good faith effort to obtain the voluntary joinder of the working interest owner in the proposed well, and continues to seek their voluntary joinder. If the pooled party subsequently voluntarily commits its interest to the well, KFOC will notify the Division.
- (g) No overriding royalty owners in the well unit need to be pooled.
- (h) Attachment D is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein is fair and reasonable, and is comparable to the costs of other wells of similar depth and length drilled in this area of Eddy County.
- (i) KFOC requests overhead and administrative rates of \$8000/month for a drilling well and \$800/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this area of Eddy 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.
- (j) KFOC requests that the maximum 200% risk charge be assessed against a non-consenting working interest owner for the cost of drilling, completing, and equipping the well.
- (k) KFOC requests that it be designated operator of the well.
- (l) The attachments to this affidavit were prepared by me or under my supervision, or compiled from company business records.
- (m) The granting of this application is in the interests of conservation and the prevention of waste.

VERIFICATION

STATE OF OKLAHOMA)
) ss.
COUNTY OF TULSA)

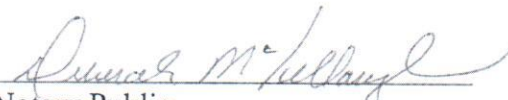
Michael Maxey, being duly sworn upon his oath, deposes and states that: He is a landman for Kaiser-Francis Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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



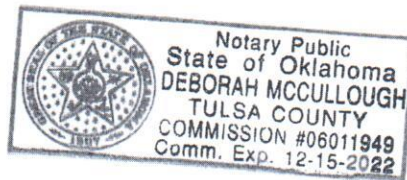
Michael Maxey

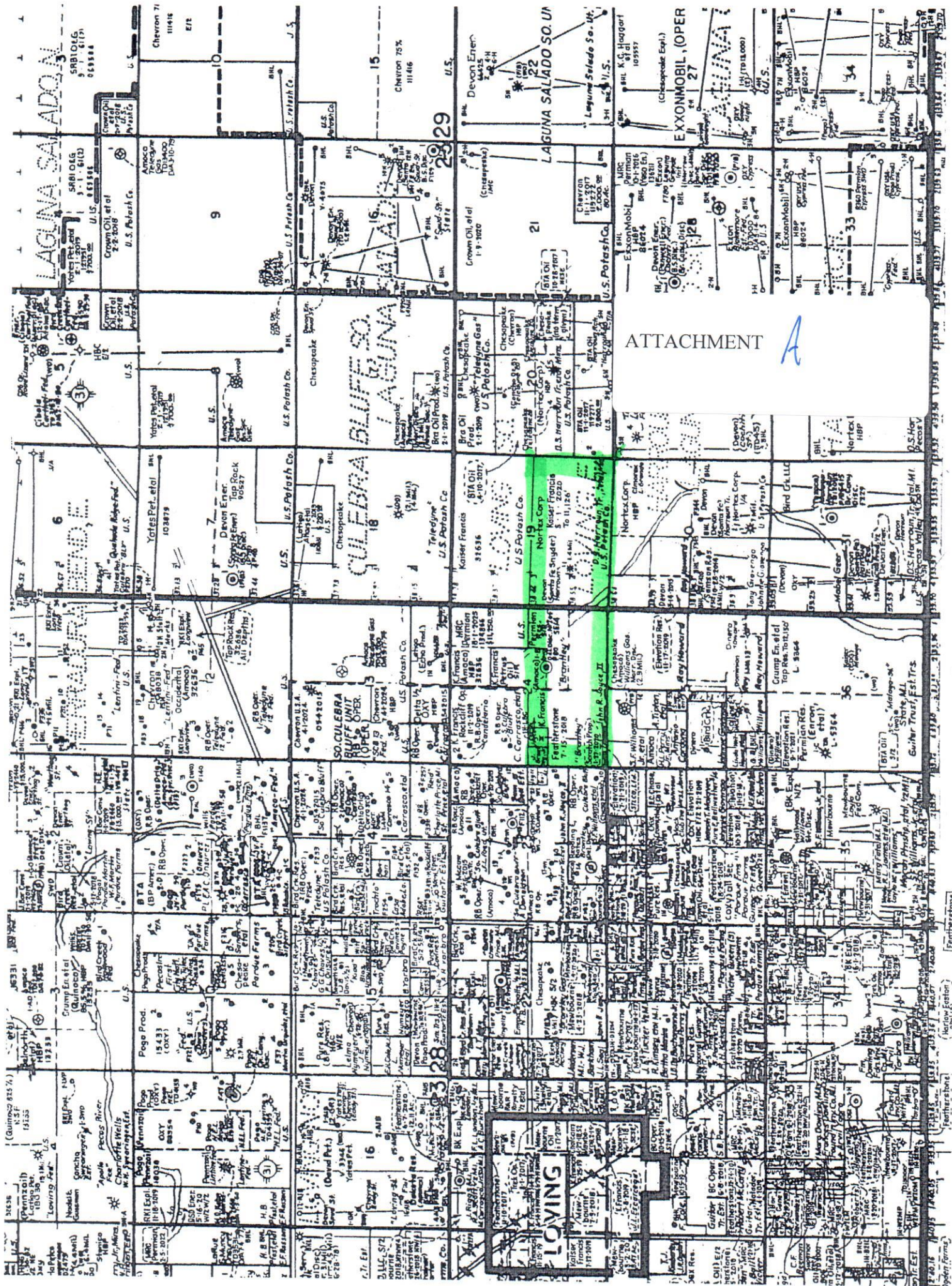
SUBSCRIBED AND SWORN TO before me this 28th day of March, 2020 by Michael Maxey.

My Commission Expires: 12-15-22



Notary Public





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) 748-0720
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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION DISTRICT
APPROVED

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

JAN 31 2019

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45683	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 324955	Property Name BRANTLEY FEE 2419 WC	Well Number 2H
GRID No. 12361	Operator Name KAISER-FRANCIS OIL CO.	Elevation 2997.5

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	23 S	28 E		975	SOUTH	185	WEST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	23 S	29 E		660	SOUTH	330	EAST	EDDY

Dedicated Acres 637.01	Joint or Infill	Consolidation Code	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.

OPERATOR CERTIFICATION

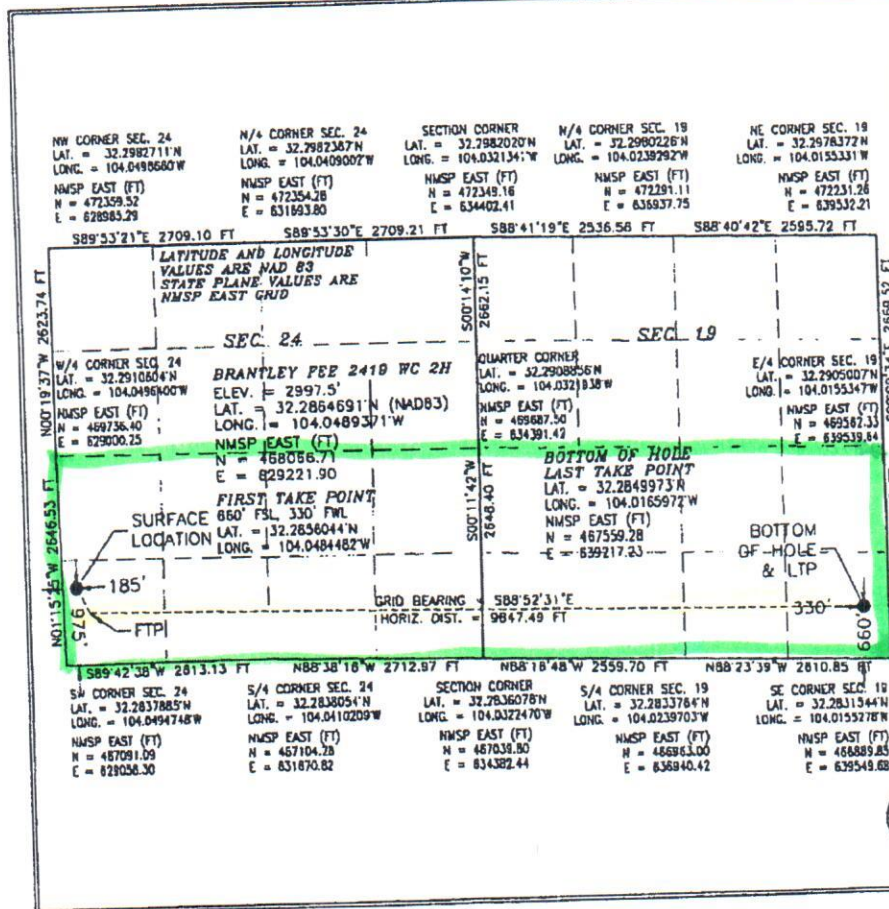
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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 state.

Signature
Charlotte Van Valkenburg
Printed Name
E-mail Address
Charlotv@kfoc.net

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.

Date of Survey
JANUARY 28, 2019
Signature
James F. Jaramillo
Certification Number
11480N F JARAMILLO, PLS 12797
SURVEY NO. 6874



Rev. 2-19-19

NMOCD Case 21176
Attachment B

Evans Petroleum, LP
P.O. Box 50885
Midland, TX 79710

1.8838009% WI

Alpha Energy Partners, LLC
Attn: Mr. Tyler Adams
P.O. Box 10701
Midland, Texas 79702

2.8257013% WI

SW/4 Sec. 24-23S-28E:

KFOC & WI partners 160.00 acres / 637.01 = 25.1173451% WI

N/2SE/4 Sec. 24-23S-28E:

KFOC & WI partners 65.00 acres / 637.01 = 10.2039214% WI

Evans 1.507 / 637.01 = .9419004% WI

Alpha 2.260 / 637.01 = 1.4128507% WI

S/2SE/4 Sec. 24-23S-28E:

KFOC & WI partners 65.00 acres / 637.01 = 10.2039214% WI

Evans 1.507 / 637.01 = .9419005% WI

Alpha 2.260 / 637.01 = 1.4128506% WI

Lots 3 and 4 and the E/2 SW/4

And the SE/4 of Section 19-23S-29E

KFOC 317.01 acres / 637.01 = 49.7653099 % WI

 : Pooled Parties

NMOCD Case 21176
Attachment B

Chevron North America Exploration and Production Co.

10.1254297% WI

Attn: Ms. Kristen Hunter
1400 Smith Street
Houston, Texas 77002

SW/4 Sec. 24-23S-28E: KFOC & WI partners 95.5 acres / 637.01 = 14.9919154% WI
Chevron 64.5 acres / 637.01 = 10.1254297% WI

N/2SE/4 Sec. 24-23S-28E: KFOC & WI partners 80.00 acres / 637.01 = 12.5586725% WI

S/2SE/4 Sec. 24-23S-28E: KFOC & WI partners 80.00 acres / 637.01 = 12.5586725% WI

Lots 3 and 4 and the E/2 SW/4
And the SE/4 of Section 19-23S-29E KFOC 317.01 acres / 637.01 = 49.7653099 % WI

March 12, 2020

Sent by Email to michael@evanspetro.com and Certified Mail

Evans Petroleum, LP
Attn: Mr. Michael Evans
P.O. Box 50885
Midland, TX 79710

Re: BRANTLEY FEE 2419 WC 2H
S/2 Section 24-23S-28E and S/2 Section 19-23S-29E
Eddy Co., NM

Michael:

Kaiser-Francis Oil Company hereby proposes the drilling of a 21,000 MD / 10,711' TVD horizontal Wolfcamp "C" well, covering the referenced 2.0 mile well path. The well will have an approximate surface location of 543' FSL and 185' FWL of Section 24-23S-28E, and a terminus of approximately 330' FSL and 330' FEL of Section 19-23S-29E.

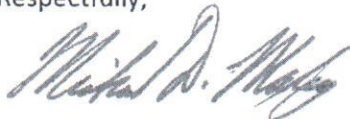
Estimated AFE costs are \$4,639,379 DHC and \$11,886,217 CWC. Two copies of the AFE are enclosed.

Should you wish to participate in the well, please execute and return one copy of the AFE, along with a reply letter indicating your desire to participate, and we will in turn send you a JOA for your review and approval.

We plan to file for pooling with the NMOCD soon, therefore, a prompt answer regarding our proposal would be greatly appreciated.

Should you have any questions, I can be reached at the above number, extension 424.

Respectfully,



Michael D. Maxey, Landman
Kaiser-Francis Oil Company

ATTACHMENT 

Kaiser-Francis Oil Company
Authority for Expenditure

Operator: Kaiser-Francis Oil Company	Date: 7/19/2019
Well Name: Brantley Fee WC #2H	Field:
Prospect: Malaga Extension	County / Psh: Eddy County
Location: 24 235 28E	State: New Mexico
Depth: 21000 MD 10711 TVD	Preparer: NS/DZ
Horizon: Wolfcamp C	
Objective: Drill and complete Wolfcamp C	

JOB Code	Intangible Drilling and Completion Costs	Drilling	Completion	Eqpt/Const	Total
500/600	Location / Road Expense / Frac Pit Construction	\$65,000	\$14,000	\$40,000	\$119,000
501/**	Cond. Rat Hole, Mouse Hole Services	\$76,000			\$26,000
502/602	Location Damages				\$0
504/604	Turnkey Completion Rig		\$8,000		\$8,000
	Footage @ per foot				\$0
	Daywork 34 days at \$24,250	\$824,500			\$824,500
505/605	Coiled Tubing & Related Services		\$240,000		\$240,000
506/606	Rig Mob / Demob	\$123,000			\$123,000
507/**	Directional Drilling Services	\$913,700			\$913,700
508/608	Bits & Reamers	\$86,000			\$86,000
510/610	Fuel/Power	\$130,900			\$130,900
512/612	Drilling Water / Completion Fluid	\$33,000	\$807,500		\$840,500
514/614	Mud & Chemicals	\$195,000	\$20,000		\$215,000
515/615	Closed Loop System / Mud & Cuttings Disposal / SWD	\$160,000	\$37,500		\$197,500
516/616	Surface Equipment Rental / Inspection	\$218,684	\$91,450		\$310,134
517/617	Downhole Equipment Rental / Inspection	\$119,000	\$156,000		\$275,000
518/618	Transportation & Loading	\$34,000	\$50,000		\$84,000
520/**	DST, Coring & Analysis				\$0
522/622	OH Logs / CH Logs / Perforating / Slickline / Plugs		\$350,000		\$350,000
523/**	Mud Logging / Geosteering / LWD	\$40,800			\$40,800
524/624	Cementing & Squeezing	\$213,500			\$213,500
526/626	Casing Crews & Equipment	\$77,000			\$77,000
528/628	Plug & Abandon				\$0
530/630	Stimulation		\$4,420,000		\$4,420,000
532/632	Geological & Engineering		\$15,000		\$15,000
534/634	Supervision	\$149,000	\$73,750		\$222,750
536/636	Miscellaneous Contract Labor	\$20,000	\$42,500	\$35,000	\$97,500
538/638	Prof. Fees & Abstracts				\$0
541/641	Liability Insurance / Bonds				\$0
542/642	Drilling Overhead / Completion Overhead	\$13,600	\$6,300		\$19,900
544/644	Miscellaneous & Unforeseen	\$154,575	\$316,600	\$3,750	\$474,925
	Total Intangible Drilling & Completion	\$3,581,750	\$6,648,000	\$78,750	\$10,311,100

JOB Code	Tangible Well and Lease Equipment Costs	Drilling	Completion	Eqpt/Const	Total
700	Conductor				\$0
701	Surface Casing 13-3/8" H40 48 ppf STC 500	\$22,500			\$22,500
702	Intermediate Casing 10-3/4" J55 40.5 ppf BTC (TD to 11,25') 3000	\$89,000			\$89,000
703	Intermediate Casing 7-5/8" P110 29.7 ppf BTC 10000	\$274,000			\$274,000
704	Drilling Liner (BCP)				\$0
705	Production Liner (ACP)				\$0
706	Production Casing (ACP) 5-1/2" 20# P110 HC Eagle 21000	\$568,000			\$568,000
710	Tubing 2 7/8" 6 5# L-80 EUE to XOP 10500		\$57,750		\$57,750
721/720	Wellhead Equip. BCP/ACP	\$60,000	\$45,000		\$105,000
724	Packers & Downhole Equipment				\$0
726	Rods & Pumps				\$0
737	Line Pipe / Fittings / Pipeline				\$0
741	Valves			\$30,000	\$30,000
752	Tanks & Walkways			\$30,000	\$30,000
765	Heaters / Treaters / Separator / VRU			\$120,000	\$120,000
768	Artificial Lift / Compressor			\$75,000	\$75,000
770	Gas Sales Unit / Dehy / Line Heater / Flare			\$85,000	\$85,000
775/774	Transportation and Freight BCP/ACP			\$5,000	\$5,000
777/776	Inspect/Test Tubulars BCP/ACP	\$10,000	\$2,000	\$45,000	\$57,000
779/778	Non-Controllable Equipment BCP/ACP	\$8,900			\$8,900
	Total Well and Lease Equipment	\$1,055,620	\$109,988	\$409,500	\$1,575,108

Total Drilling and Completion Cost	\$4,639,379	\$6,758,588	\$488,250	\$11,886,217
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KFOC APPROVALS	PARTNER APPROVAL
Robert Sanford (918) 491-4201 Drilling	Signature
David Zenger (918) 491-4350 Completion	Printed Name
Michael Maxey (918) 491-4424 Land	Position
Lee Lindman (918) 491-4484 Geology	Company
David Basden (918) 491-4534 Reservoir	Date
Glen Taylor (918) 491-4408 Asset Manager	
Tom Redman (918) 491-4506 Chief Operating Officer	

ATTACHMENT **D**

**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. 21176

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 base of the Wolfcamp C formation. It shows that structure dips gently to the East. It also displays other Wolfcamp permits and wells in the vicinity of the Brantley Fee 2419 WC Well No. 2H, and a line of cross-section A – A'. The proposed completion interval in the well is the Wolfcamp C Shale.
 - (b) Attachment B is a Gross Isopach map of the Wolfcamp C zone. This zone has uniform thickness across the proposed well unit.
 - (c) Attachment C is a stratigraphic cross section A – A' hung on the base of the Wolfcamp C. The well logs on the cross-section give a representative sample of the Wolfcamp 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 3

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)

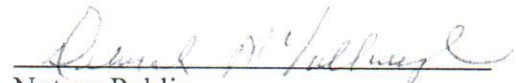
Lee J. Lindman, being duly sworn upon his oath, deposes and states that: He is a geologist for Kaiser-Francis Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his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



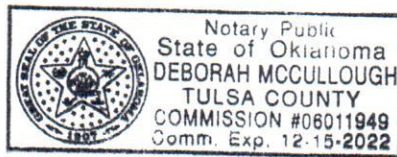
Lee J. Lindman

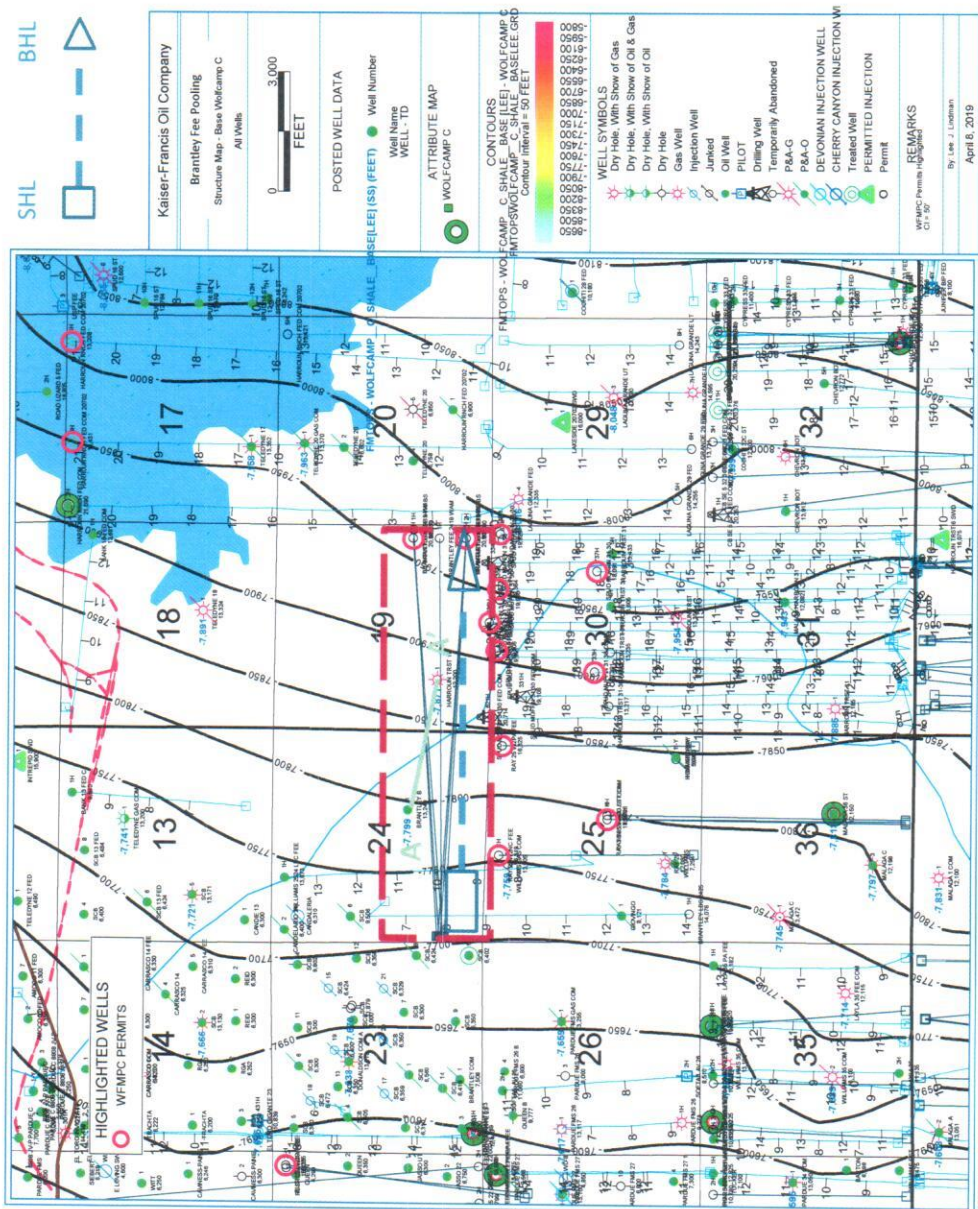
SUBSCRIBED AND SWORN TO before me this 2nd day of March, 2020 by Debbie McCullough.

My Commission Expires: 12-15-22



Notary Public



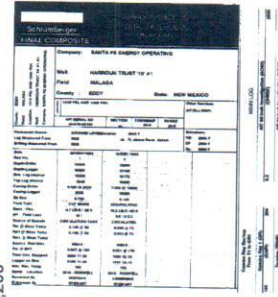
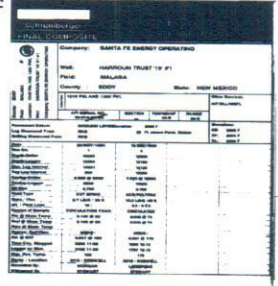
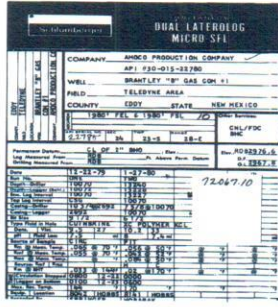
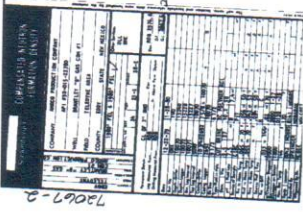


Structure Map (Base Wolfcamp C - Subsea)

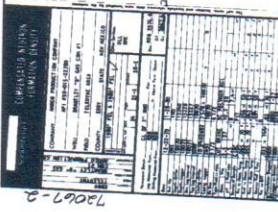
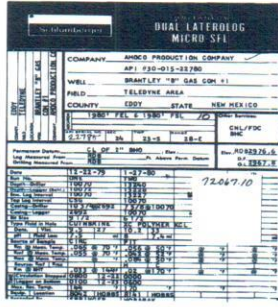
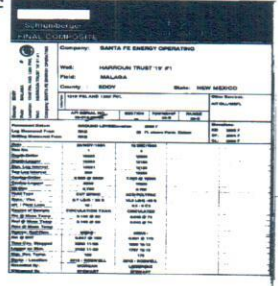
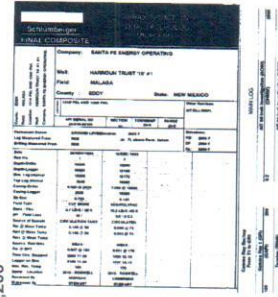
ATTACHMENT

A

1
PENROC OPER
BRANTLEY B
13,240



1
DEVON
HARROUN TRST 19
12,200



Rel
Depth(ft)
-300 -

-250 -

-200 -

-150 -

-100 -

-50 -

0 -

50 -

Rel
Depth(ft)
-300 -

-250 -

-200 -

-150 -

-100 -

-50 -

0 -

50 -

ATTACHMENT C

Brantley Fee WC 241.9 #2H Landing Point

Datum

Stratigraphic Cross Section A - A'



Kaiser-Francis Oil Company

Eddy County, NM (NAD 27)

Sec 24-T23S-R28E

Brantley FEE 24-19 WC 2H

Wellbore #1

Plan: Plan #2

Standard Planning Report

27 February, 2020

ATTACHMENT

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KAISER-FRANCIS OIL COMPANY



Microsoft
Planning Report

KAISER-FRANCIS OIL COMPANY

Database: EDM 5000.15 Single User Db
Company: Kaiser-Francis Oil Company
Project: Eddy County, NM (NAD 27)
Site: Sec 24-T23S-R28E
Well: Brantley FEE 24-19 WC 2H
Wellbore: Wellbore #1
Design: Plan #2

Local Co-ordinate Reference: Well Brantley FEE 24-19 WC 2H
TVD Reference: 2995.7+23 @ 3018.70usft
MD Reference: 2995.7+23 @ 3018.70usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD 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:	467,575.61 usft
From:	Lat/Long	Easting:	588,048.33 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.285161
		Longitude:	-104.048417
		Grid Convergence:	0.15 °

Well	Brantley FEE 24-19 WC 2H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32.285161
		Longitude:	-104.048417
		Ground Level:	2,995.70 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	02/21/20	(°)
			6.89
			Dip Angle
			(°)
			60.01
			Field Strength
			(nT)
			47,651.60629666

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			91.57

Plan Survey Tool Program	Date	02/27/20		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	20,797.57 Plan #2 (Wellbore #1)	MWD	
			OWSG MWD - Standard	



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Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,250.00	5.00	218.70	2,249.68	-8.51	-6.82	2.00	2.00	0.00	218.70	
4,402.00	5.00	218.70	4,393.49	-154.88	-124.09	0.00	0.00	0.00	0.00	
4,652.00	0.00	0.00	4,643.18	-163.39	-130.90	2.00	-2.00	0.00	180.00	
10,145.96	0.00	0.00	10,137.14	-163.39	-130.90	0.00	0.00	0.00	0.00	
11,030.06	88.41	89.78	10,709.87	-161.25	426.15	10.00	10.00	0.00	89.78	
11,130.06	88.41	89.78	10,712.65	-160.87	526.11	0.00	0.00	0.00	0.00	
12,837.22	88.41	89.78	10,760.00	-154.32	2,232.61	0.00	0.00	0.00	0.00	WP 1 2236' VS
12,913.72	88.84	91.25	10,761.84	-155.01	2,309.08	2.00	0.56	1.92	73.85	
15,776.89	88.84	91.25	10,820.00	-217.45	5,170.98	0.00	0.00	0.00	0.00	WP 2 5175' VS
15,848.34	87.44	91.57	10,822.32	-219.21	5,242.37	2.00	-1.95	0.45	167.07	
17,074.15	87.44	91.57	10,877.00	-252.76	6,466.50	0.00	0.00	0.00	0.00	WP 3 6471' VS
17,095.46	87.87	91.57	10,877.87	-253.34	6,487.79	2.00	2.00	0.00	-0.01	
19,304.71	87.87	91.57	10,960.00	-313.83	8,694.67	0.00	0.00	0.00	0.00	WP 4 8700' VS
19,390.98	89.60	91.57	10,961.91	-316.19	8,780.89	2.00	2.00	0.00	-0.03	
20,535.76	89.60	91.57	10,970.00	-347.54	9,925.21	0.00	0.00	0.00	0.00	WP 5 9931' VS
20,797.57	89.60	91.57	10,971.85	-354.71	10,186.92	0.00	0.00	0.00	0.00	BHL FTP Brantley FE



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge 2°/100'									
2,100.00	2.00	218.70	2,099.98	-1.36	-1.09	-1.05	2.00	2.00	0.00
2,200.00	4.00	218.70	2,199.84	-5.45	-4.36	-4.21	2.00	2.00	0.00
2,250.00	5.00	218.70	2,249.68	-8.51	-6.82	-6.58	2.00	2.00	0.00
EOB HLD 5° Inc.									
2,300.00	5.00	218.70	2,299.49	-11.91	-9.54	-9.21	0.00	0.00	0.00
2,400.00	5.00	218.70	2,399.11	-18.71	-14.99	-14.47	0.00	0.00	0.00
2,500.00	5.00	218.70	2,498.73	-25.51	-20.44	-19.73	0.00	0.00	0.00
2,600.00	5.00	218.70	2,598.35	-32.31	-25.89	-24.99	0.00	0.00	0.00
2,700.00	5.00	218.70	2,697.97	-39.12	-31.34	-30.25	0.00	0.00	0.00
2,800.00	5.00	218.70	2,797.59	-45.92	-36.79	-35.52	0.00	0.00	0.00
2,900.00	5.00	218.70	2,897.21	-52.72	-42.24	-40.78	0.00	0.00	0.00
3,000.00	5.00	218.70	2,996.83	-59.52	-47.69	-46.04	0.00	0.00	0.00
3,100.00	5.00	218.70	3,096.45	-66.32	-53.14	-51.30	0.00	0.00	0.00
3,200.00	5.00	218.70	3,196.07	-73.13	-58.58	-56.56	0.00	0.00	0.00
3,300.00	5.00	218.70	3,295.69	-79.93	-64.03	-61.82	0.00	0.00	0.00
3,400.00	5.00	218.70	3,395.31	-86.73	-69.48	-67.08	0.00	0.00	0.00
3,500.00	5.00	218.70	3,494.93	-93.53	-74.93	-72.34	0.00	0.00	0.00
3,600.00	5.00	218.70	3,594.55	-100.33	-80.38	-77.60	0.00	0.00	0.00
3,700.00	5.00	218.70	3,694.17	-107.14	-85.83	-82.86	0.00	0.00	0.00
3,800.00	5.00	218.70	3,793.78	-113.94	-91.28	-88.12	0.00	0.00	0.00
3,900.00	5.00	218.70	3,893.40	-120.74	-96.73	-93.39	0.00	0.00	0.00
4,000.00	5.00	218.70	3,993.02	-127.54	-102.18	-98.65	0.00	0.00	0.00
4,100.00	5.00	218.70	4,092.64	-134.34	-107.63	-103.91	0.00	0.00	0.00
4,200.00	5.00	218.70	4,192.26	-141.14	-113.08	-109.17	0.00	0.00	0.00
4,300.00	5.00	218.70	4,291.88	-147.95	-118.53	-114.43	0.00	0.00	0.00
4,402.00	5.00	218.70	4,393.49	-154.88	-124.09	-119.80	0.00	0.00	0.00
DROP 2°/100'									
4,500.00	3.04	218.70	4,491.25	-160.25	-128.38	-123.94	2.00	-2.00	0.00
4,600.00	1.04	218.70	4,591.18	-163.02	-130.61	-126.09	2.00	-2.00	0.00
4,652.00	0.00	0.00	4,643.18	-163.39	-130.90	-126.38	2.00	-2.00	0.00
EOD HLD 0° Inc.									
4,700.00	0.00	0.00	4,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,800.00	0.00	0.00	4,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
4,900.00	0.00	0.00	4,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,000.00	0.00	0.00	4,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,100.00	0.00	0.00	5,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,200.00	0.00	0.00	5,191.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,300.00	0.00	0.00	5,291.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,400.00	0.00	0.00	5,391.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,500.00	0.00	0.00	5,491.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,600.00	0.00	0.00	5,591.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,700.00	0.00	0.00	5,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,800.00	0.00	0.00	5,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
5,900.00	0.00	0.00	5,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,000.00	0.00	0.00	5,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,100.00	0.00	0.00	6,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,200.00	0.00	0.00	6,191.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,300.00	0.00	0.00	6,291.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,400.00	0.00	0.00	6,391.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,500.00	0.00	0.00	6,491.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,600.00	0.00	0.00	6,591.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,700.00	0.00	0.00	6,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,800.00	0.00	0.00	6,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
6,900.00	0.00	0.00	6,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,000.00	0.00	0.00	6,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,100.00	0.00	0.00	7,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,200.00	0.00	0.00	7,191.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,300.00	0.00	0.00	7,291.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,400.00	0.00	0.00	7,391.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,500.00	0.00	0.00	7,491.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,600.00	0.00	0.00	7,591.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,700.00	0.00	0.00	7,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,800.00	0.00	0.00	7,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
7,900.00	0.00	0.00	7,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,000.00	0.00	0.00	7,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,100.00	0.00	0.00	8,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,200.00	0.00	0.00	8,191.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,300.00	0.00	0.00	8,291.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,400.00	0.00	0.00	8,391.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,500.00	0.00	0.00	8,491.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,600.00	0.00	0.00	8,591.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,700.00	0.00	0.00	8,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,800.00	0.00	0.00	8,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
8,900.00	0.00	0.00	8,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,000.00	0.00	0.00	8,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,100.00	0.00	0.00	9,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,200.00	0.00	0.00	9,191.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,300.00	0.00	0.00	9,291.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,400.00	0.00	0.00	9,391.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,500.00	0.00	0.00	9,491.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,600.00	0.00	0.00	9,591.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,700.00	0.00	0.00	9,691.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,800.00	0.00	0.00	9,791.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
9,900.00	0.00	0.00	9,891.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
10,000.00	0.00	0.00	9,991.18	-163.39	-130.90	-126.38	0.00	0.00	0.00
10,100.00	0.00	0.00	10,091.18	-163.39	-130.90	-126.38	0.00	0.00	0.00



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10,145.96	0.00	0.00	10,137.14	-163.39	-130.90	-126.38	0.00	0.00	0.00
KOP BLD 10°/100'									
10,150.00	0.40	89.78	10,141.18	-163.39	-130.89	-126.36	10.00	10.00	0.00
10,200.00	5.40	89.78	10,191.10	-163.38	-128.36	-123.83	10.00	10.00	0.00
10,250.00	10.40	89.78	10,240.61	-163.36	-121.48	-116.96	10.00	10.00	0.00
10,300.00	15.40	89.78	10,289.33	-163.31	-110.32	-105.80	10.00	10.00	0.00
10,350.00	20.40	89.78	10,336.89	-163.25	-94.95	-90.44	10.00	10.00	0.00
10,400.00	25.40	89.78	10,382.93	-163.18	-75.50	-71.00	10.00	10.00	0.00
10,450.00	30.40	89.78	10,427.11	-163.09	-52.11	-47.62	10.00	10.00	0.00
10,500.00	35.40	89.78	10,469.07	-162.99	-24.95	-20.48	10.00	10.00	0.00
10,550.00	40.40	89.78	10,508.51	-162.87	5.75	10.21	10.00	10.00	0.00
10,600.00	45.40	89.78	10,545.13	-162.74	39.78	44.22	10.00	10.00	0.00
10,650.00	50.40	89.78	10,578.63	-162.59	76.87	81.30	10.00	10.00	0.00
10,700.00	55.40	89.78	10,608.78	-162.44	116.74	121.14	10.00	10.00	0.00
10,750.00	60.40	89.78	10,635.34	-162.28	159.08	163.47	10.00	10.00	0.00
10,800.00	65.40	89.78	10,658.11	-162.11	203.58	207.94	10.00	10.00	0.00
10,850.00	70.40	89.78	10,676.91	-161.93	249.89	254.24	10.00	10.00	0.00
10,900.00	75.40	89.78	10,691.60	-161.75	297.67	301.99	10.00	10.00	0.00
10,950.00	80.40	89.78	10,702.08	-161.56	346.54	350.84	10.00	10.00	0.00
11,000.00	85.40	89.78	10,708.25	-161.37	396.14	400.42	10.00	10.00	0.00
11,030.06	88.41	89.78	10,709.87	-161.25	426.15	430.41	10.00	10.00	0.00
EOB HLD 88.41° Inc.									
11,100.00	88.41	89.78	10,711.81	-160.98	496.07	500.29	0.00	0.00	0.00
11,130.06	88.41	89.78	10,712.65	-160.87	526.11	530.32	0.00	0.00	0.00
CONT HLD 88.41° Inc.									
11,200.00	88.41	89.78	10,714.59	-160.60	596.03	600.21	0.00	0.00	0.00
11,300.00	88.41	89.78	10,717.36	-160.22	695.99	700.12	0.00	0.00	0.00
11,400.00	88.41	89.78	10,720.14	-159.83	795.95	800.03	0.00	0.00	0.00
11,500.00	88.41	89.78	10,722.91	-159.45	895.91	899.94	0.00	0.00	0.00
11,600.00	88.41	89.78	10,725.69	-159.07	995.87	999.86	0.00	0.00	0.00
11,700.00	88.41	89.78	10,728.46	-158.68	1,095.83	1,099.77	0.00	0.00	0.00
11,800.00	88.41	89.78	10,731.24	-158.30	1,195.79	1,199.68	0.00	0.00	0.00
11,900.00	88.41	89.78	10,734.01	-157.91	1,295.75	1,299.59	0.00	0.00	0.00
12,000.00	88.41	89.78	10,736.79	-157.53	1,395.71	1,399.51	0.00	0.00	0.00
12,100.00	88.41	89.78	10,739.56	-157.15	1,495.68	1,499.42	0.00	0.00	0.00
12,200.00	88.41	89.78	10,742.33	-156.76	1,595.64	1,599.33	0.00	0.00	0.00
12,300.00	88.41	89.78	10,745.11	-156.38	1,695.60	1,699.25	0.00	0.00	0.00
12,400.00	88.41	89.78	10,747.88	-156.00	1,795.56	1,799.16	0.00	0.00	0.00
12,500.00	88.41	89.78	10,750.66	-155.61	1,895.52	1,899.07	0.00	0.00	0.00
12,600.00	88.41	89.78	10,753.43	-155.23	1,995.48	1,998.98	0.00	0.00	0.00
12,700.00	88.41	89.78	10,756.21	-154.84	2,095.44	2,098.90	0.00	0.00	0.00
12,800.00	88.41	89.78	10,758.98	-154.46	2,195.40	2,198.81	0.00	0.00	0.00
12,837.22	88.41	89.78	10,760.00	-154.32	2,232.61	2,236.00	0.00	0.00	0.00
BLD 2°/100'									
12,900.00	88.76	90.99	10,761.55	-154.74	2,295.36	2,298.74	2.00	0.56	1.92
12,913.72	88.84	91.25	10,761.84	-155.01	2,309.08	2,312.46	2.00	0.56	1.92
EOB HLD 88.84° Inc.									
13,000.00	88.84	91.25	10,763.59	-156.89	2,395.32	2,398.72	0.00	0.00	0.00
13,100.00	88.84	91.25	10,765.62	-159.07	2,495.28	2,498.70	0.00	0.00	0.00
13,200.00	88.84	91.25	10,767.65	-161.25	2,595.23	2,598.68	0.00	0.00	0.00
13,300.00	88.84	91.25	10,769.69	-163.43	2,695.19	2,698.65	0.00	0.00	0.00
13,400.00	88.84	91.25	10,771.72	-165.61	2,795.14	2,798.63	0.00	0.00	0.00
13,500.00	88.84	91.25	10,773.75	-167.79	2,895.10	2,898.61	0.00	0.00	0.00



Microsoft
Planning Report

KAISER-FRANCIS OIL COMPANY

Database: EDM 5000.15 Single User Db
Company: Kaiser-Francis Oil Company
Project: Eddy County, NM (NAD 27)
Site: Sec 24-T23S-R28E
Well: Brantley FEE 24-19 WC 2H
Wellbore: Wellbore #1
Design: Plan #2

Local Co-ordinate Reference: Well Brantley FEE 24-19 WC 2H
TVD Reference: 2995.7+23 @ 3018.70usft
MD Reference: 2995.7+23 @ 3018.70usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,600.00	88.84	91.25	10,775.78	-169.97	2,995.05	2,998.59	0.00	0.00	0.00
13,700.00	88.84	91.25	10,777.81	-172.16	3,095.01	3,098.56	0.00	0.00	0.00
13,800.00	88.84	91.25	10,779.84	-174.34	3,194.97	3,198.54	0.00	0.00	0.00
13,900.00	88.84	91.25	10,781.87	-176.52	3,294.92	3,298.52	0.00	0.00	0.00
14,000.00	88.84	91.25	10,783.90	-178.70	3,394.88	3,398.50	0.00	0.00	0.00
14,100.00	88.84	91.25	10,785.94	-180.88	3,494.83	3,498.48	0.00	0.00	0.00
14,200.00	88.84	91.25	10,787.97	-183.06	3,594.79	3,598.45	0.00	0.00	0.00
14,300.00	88.84	91.25	10,790.00	-185.24	3,694.74	3,698.43	0.00	0.00	0.00
14,400.00	88.84	91.25	10,792.03	-187.42	3,794.70	3,798.41	0.00	0.00	0.00
14,500.00	88.84	91.25	10,794.06	-189.60	3,894.65	3,898.39	0.00	0.00	0.00
14,600.00	88.84	91.25	10,796.09	-191.78	3,994.61	3,998.37	0.00	0.00	0.00
14,700.00	88.84	91.25	10,798.12	-193.96	4,094.57	4,098.34	0.00	0.00	0.00
14,800.00	88.84	91.25	10,800.16	-196.15	4,194.52	4,198.32	0.00	0.00	0.00
14,900.00	88.84	91.25	10,802.19	-198.33	4,294.48	4,298.30	0.00	0.00	0.00
15,000.00	88.84	91.25	10,804.22	-200.51	4,394.43	4,398.28	0.00	0.00	0.00
15,100.00	88.84	91.25	10,806.25	-202.69	4,494.39	4,498.25	0.00	0.00	0.00
15,200.00	88.84	91.25	10,808.28	-204.87	4,594.34	4,598.23	0.00	0.00	0.00
15,300.00	88.84	91.25	10,810.31	-207.05	4,694.30	4,698.21	0.00	0.00	0.00
15,400.00	88.84	91.25	10,812.34	-209.23	4,794.25	4,798.19	0.00	0.00	0.00
15,500.00	88.84	91.25	10,814.38	-211.41	4,894.21	4,898.17	0.00	0.00	0.00
15,600.00	88.84	91.25	10,816.41	-213.59	4,994.17	4,998.14	0.00	0.00	0.00
15,700.00	88.84	91.25	10,818.44	-215.77	5,094.12	5,098.12	0.00	0.00	0.00
15,776.89	88.84	91.25	10,820.00	-217.45	5,170.98	5,175.00	0.00	0.00	0.00
DROP 2°/100'									
15,800.00	88.39	91.35	10,820.56	-217.97	5,194.07	5,198.10	2.00	-1.95	0.45
15,848.34	87.44	91.57	10,822.32	-219.21	5,242.37	5,246.41	2.00	-1.95	0.45
EOD HLD 87.44° Inc.									
15,900.00	87.44	91.57	10,824.62	-220.62	5,293.96	5,298.01	0.00	0.00	0.00
16,000.00	87.44	91.57	10,829.08	-223.36	5,393.82	5,397.91	0.00	0.00	0.00
16,100.00	87.44	91.57	10,833.55	-226.10	5,493.68	5,497.81	0.00	0.00	0.00
16,200.00	87.44	91.57	10,838.01	-228.83	5,593.54	5,597.71	0.00	0.00	0.00
16,300.00	87.44	91.57	10,842.47	-231.57	5,693.41	5,697.61	0.00	0.00	0.00
16,400.00	87.44	91.57	10,846.93	-234.31	5,793.27	5,797.52	0.00	0.00	0.00
16,500.00	87.44	91.57	10,851.39	-237.04	5,893.13	5,897.42	0.00	0.00	0.00
16,600.00	87.44	91.57	10,855.85	-239.78	5,993.00	5,997.32	0.00	0.00	0.00
16,700.00	87.44	91.57	10,860.31	-242.52	6,092.86	6,097.22	0.00	0.00	0.00
16,800.00	87.44	91.57	10,864.77	-245.26	6,192.72	6,197.12	0.00	0.00	0.00
16,900.00	87.44	91.57	10,869.23	-247.99	6,292.59	6,297.02	0.00	0.00	0.00
17,000.00	87.44	91.57	10,873.69	-250.73	6,392.45	6,396.92	0.00	0.00	0.00
17,074.15	87.44	91.57	10,877.00	-252.76	6,466.50	6,471.00	0.00	0.00	0.00
BLD 2°/100'									
17,095.46	87.87	91.57	10,877.87	-253.34	6,487.79	6,492.29	2.00	2.00	0.00
EOB HLD 87.87° Inc.									
17,100.00	87.87	91.57	10,878.04	-253.47	6,492.32	6,496.82	0.00	0.00	0.00
17,200.00	87.87	91.57	10,881.76	-256.21	6,592.21	6,596.75	0.00	0.00	0.00
17,300.00	87.87	91.57	10,885.48	-258.94	6,692.10	6,696.68	0.00	0.00	0.00
17,400.00	87.87	91.57	10,889.19	-261.68	6,792.00	6,796.62	0.00	0.00	0.00
17,500.00	87.87	91.57	10,892.91	-264.42	6,891.89	6,896.55	0.00	0.00	0.00
17,600.00	87.87	91.57	10,896.63	-267.16	6,991.78	6,996.48	0.00	0.00	0.00
17,700.00	87.87	91.57	10,900.35	-269.89	7,091.68	7,096.41	0.00	0.00	0.00
17,800.00	87.87	91.57	10,904.06	-272.63	7,191.57	7,196.34	0.00	0.00	0.00
17,900.00	87.87	91.57	10,907.78	-275.37	7,291.46	7,296.27	0.00	0.00	0.00
18,000.00	87.87	91.57	10,911.50	-278.11	7,391.36	7,396.20	0.00	0.00	0.00



Microsoft
Planning Report

KAISER-FRANCIS OIL COMPANY

Database: EDM 5000.15 Single User Db
Company: Kaiser-Francis Oil Company
Project: Eddy County, NM (NAD 27)
Site: Sec 24-T23S-R28E
Well: Brantley FEE 24-19 WC 2H
Wellbore: Wellbore #1
Design: Plan #2

Local Co-ordinate Reference: Well Brantley FEE 24-19 WC 2H
TVD Reference: 2995.7+23 @ 3018.70usft
MD Reference: 2995.7+23 @ 3018.70usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
18,100.00	87.87	91.57	10,915.22	-280.85	7,491.25	7,496.13	0.00	0.00	0.00
18,200.00	87.87	91.57	10,918.93	-283.58	7,591.14	7,596.06	0.00	0.00	0.00
18,300.00	87.87	91.57	10,922.65	-286.32	7,691.04	7,695.99	0.00	0.00	0.00
18,400.00	87.87	91.57	10,926.37	-289.06	7,790.93	7,795.92	0.00	0.00	0.00
18,500.00	87.87	91.57	10,930.09	-291.80	7,890.82	7,895.86	0.00	0.00	0.00
18,600.00	87.87	91.57	10,933.80	-294.54	7,990.72	7,995.79	0.00	0.00	0.00
18,700.00	87.87	91.57	10,937.52	-297.27	8,090.61	8,095.72	0.00	0.00	0.00
18,800.00	87.87	91.57	10,941.24	-300.01	8,190.50	8,195.65	0.00	0.00	0.00
18,900.00	87.87	91.57	10,944.96	-302.75	8,290.40	8,295.58	0.00	0.00	0.00
19,000.00	87.87	91.57	10,948.67	-305.49	8,390.29	8,395.51	0.00	0.00	0.00
19,100.00	87.87	91.57	10,952.39	-308.23	8,490.18	8,495.44	0.00	0.00	0.00
19,200.00	87.87	91.57	10,956.11	-310.96	8,590.08	8,595.37	0.00	0.00	0.00
19,304.71	87.87	91.57	10,960.00	-313.83	8,694.67	8,700.00	0.00	0.00	0.00
BLD 2°/100'									
19,390.98	89.60	91.57	10,961.91	-316.19	8,780.89	8,786.25	2.00	2.00	0.00
EOB HLD 89.60° Inc.									
19,400.00	89.60	91.57	10,961.97	-316.44	8,789.90	8,795.27	0.00	0.00	0.00
19,500.00	89.60	91.57	10,962.68	-319.18	8,889.86	8,895.27	0.00	0.00	0.00
19,600.00	89.60	91.57	10,963.39	-321.92	8,989.82	8,995.27	0.00	0.00	0.00
19,700.00	89.60	91.57	10,964.09	-324.65	9,089.78	9,095.27	0.00	0.00	0.00
19,800.00	89.60	91.57	10,964.80	-327.39	9,189.74	9,195.26	0.00	0.00	0.00
19,900.00	89.60	91.57	10,965.51	-330.13	9,289.70	9,295.26	0.00	0.00	0.00
20,000.00	89.60	91.57	10,966.21	-332.87	9,389.66	9,395.26	0.00	0.00	0.00
20,100.00	89.60	91.57	10,966.92	-335.61	9,489.62	9,495.26	0.00	0.00	0.00
20,200.00	89.60	91.57	10,967.63	-338.35	9,589.58	9,595.25	0.00	0.00	0.00
20,300.00	89.60	91.57	10,968.33	-341.08	9,689.54	9,695.25	0.00	0.00	0.00
20,400.00	89.60	91.57	10,969.04	-343.82	9,789.50	9,795.25	0.00	0.00	0.00
20,500.00	89.60	91.57	10,969.75	-346.56	9,889.46	9,895.25	0.00	0.00	0.00
20,535.76	89.60	91.57	10,970.00	-347.54	9,925.21	9,931.01	0.00	0.00	0.00
CONT HLD 89.60° Inc.									
20,600.00	89.60	91.57	10,970.45	-349.30	9,989.42	9,995.24	0.00	0.00	0.00
20,700.00	89.60	91.57	10,971.16	-352.04	10,089.38	10,095.24	0.00	0.00	0.00
20,797.57	89.60	91.57	10,971.85	-354.71	10,186.92	10,192.81	0.00	0.00	0.00
TD at 20797.57									



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TVD Reference: 2995.7+23 @ 3018.70usft
MD Reference: 2995.7+23 @ 3018.70usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP Brantley FEE 24-19 - plan misses target center by 49.88usft at 10738.96usft MD (10629.79 TVD, -162.32 N, 149.53 E) - Point	0.00	0.00	10,629.87	-212.19	149.67	467,363.42	588,198.01	32.284576	-104.047935
WP 1 2236' VS - plan hits target center - Point	0.00	0.00	10,760.00	-154.32	2,232.61	467,421.29	590,280.94	32.284720	-104.041194
WP 2 5175' VS - plan hits target center - Point	0.00	0.00	10,820.00	-217.45	5,170.98	467,358.16	593,219.31	32.284524	-104.031686
WP 3 6471' VS - plan hits target center - Point	0.00	0.00	10,877.00	-252.76	6,466.50	467,322.85	594,514.83	32.284417	-104.027495
WP 4 8700' VS - plan hits target center - Point	0.00	0.00	10,960.00	-313.83	8,694.67	467,261.78	596,743.00	32.284231	-104.020285
WP 5 9931' VS - plan hits target center - Point	0.00	0.00	10,970.00	-347.54	9,925.21	467,228.07	597,973.54	32.284129	-104.016304
LTP FTP Brantley FEE 2 - plan misses target center by 56.56usft at 20599.08usft MD (10970.45 TVD, -349.27 N, 9988.50 E) - Point	0.00	0.00	10,970.44	-405.81	9,986.95	467,169.80	598,035.29	32.283968	-104.016104
BHL FTP Brantley FEE 2 - plan hits target center - Point	0.00	0.00	10,971.85	-354.71	10,186.92	467,220.90	598,235.25	32.284107	-104.015457

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Nudge 2°/100'
2,250.00	2,249.68	-8.51	-6.82	EOB HLD 5° Inc.
4,402.00	4,393.49	-154.88	-124.09	DROP 2°/100'
4,652.00	4,643.18	-163.39	-130.90	EOD HLD 0° Inc.
10,145.96	10,137.14	-163.39	-130.90	KOP BLD 10°/100'
11,030.06	10,709.87	-161.25	426.15	EOB HLD 88.41° Inc.
11,130.06	10,712.65	-160.87	526.11	CONT HLD 88.41° Inc.
12,837.22	10,760.00	-154.32	2,232.61	BLD 2°/100'
12,913.72	10,761.84	-155.01	2,309.08	EOB HLD 88.84° Inc.
15,776.89	10,820.00	-217.45	5,170.98	DROP 2°/100'
15,848.34	10,822.32	-219.21	5,242.37	EOD HLD 87.44° Inc.
17,074.15	10,877.00	-252.76	6,466.50	BLD 2°/100'
17,095.46	10,877.87	-253.34	6,487.79	EOB HLD 87.87° Inc.
19,304.71	10,960.00	-313.83	8,694.67	BLD 2°/100'
19,390.98	10,961.91	-316.19	8,780.89	EOB HLD 89.60° Inc.
20,535.76	10,970.00	-347.54	9,925.21	CONT HLD 89.60° Inc.
20,797.57	10,971.85	-354.71	10,186.92	TD at 20797.57

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 Nos. 21176

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 owners, at their last known addresses, by certified mail. Copies of the notice letters and certified return receipts are attached hereto 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:

April 28, 2020

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

March 12, 2020

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

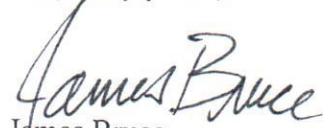
Ladies and gentlemen:

Enclosed is a copy of an application for compulsory pooling, filed with the New Mexico Oil Conservation Division by Kaiser-Francis Oil Company (Case No. 21176), regarding a Wolfcamp well in the S/2 of Section 24 Township 23 South, Range 28 East, NMPM and the S/2 of Section 19, Township 23 South, Range 29 East, NMPM, in Eddy County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, April 2, 2020, in Room 311, State Capitol Building, 490 Old Santa Fe Trail, Santa Fe, New Mexico 87501. You are not required to attend this hearing, but as an owner of an interest who may be affected by the application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter 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 Thursday, March 26, 2019. This statement must be filed with the Division's Santa Fe office, and should include: The names of the party and his or her attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. This document may be filed online at ocd.hearings@state.nm.us.

Very truly yours,


James Bruce

Attorney for Kaiser-Francis Oil Company

ATTACHMENT

A

EXHIBIT A

Chevron North America Exploration & Production Co.
6301 Deauville Boulevard
Midland, Texas 79706

Attention: Permitting Team

7019 2280 0002 1748 2472

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate) ☐ Return Receipt (hardcopy) \$ ☐ Return Receipt (electronic) \$ ☐ Certified Mail Restricted Delivery \$ ☐ Adult Signature Required \$ ☐ Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To: Chevron North America Exploration & Production Co. 6301 Deauville Boulevard Midland, Texas 79706 Street and Apt. No., or PO Box No. City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- 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.	A. Signature X <i>M. Brown</i> ☐ Agent ☐ Addressee
1. Article Addressed to:	B. Received by (Printed Name) <i>Maria Brown</i>
2. Article Number (Transfer from service label) 7019 2280 0002 1748 2472	C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:
Chevron North America Exploration & Production Co. 6301 Deauville Boulevard Midland, Texas 79706	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☐ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053	KF-B Domestic Return Receipt

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

April 9, 2020

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

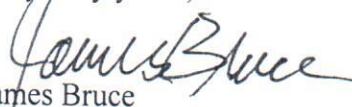
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This matter is scheduled for hearing at 8:15 a.m. on Thursday, April 30, 2020, at a place to be determined by the Division. **The hearing will probably be conducted remotely. You should contact the Division at (505) 476-3441 or emnrd.state.nm.us/OCD to request additional information on participating in the case.** You are not required to attend this hearing, but as an owner of an interest who may be affected by the application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter 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 Thursday, April 23, 2020. This statement must be filed with the Division's Santa Fe office, and should include: The names of the party and his or her attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. This document may be filed online at ocd.hearings@state.nm.us.

Very truly yours,


James Bruce

Attorney for Kaiser-Francis Oil Company

EXHIBIT A

Evans Petroleum, LP
P.O. Box 50885
Midland, Texas 79710

Alpha Energy Partners, LLC
P.O. Box 10701
Midland, Texas 79702

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

Evans Petroleum, LP
P.O. Box 50885
Midland, Texas 79710



9590 9402 5751 0003 4255 58

2. Article Number (Transfer from envelope label)

7019 2970 0000 7593 5604

PS Form 3811, July 2015 PSN 7530-02-000-9053

K-F 13R WC Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) J. M. EVANS C. Date of Delivery 4/20/20
- D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
- ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☒ Certified Mail®
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation Restricted Delivery

U.S. Postal Service™

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OFFICIAL USE

Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

- ☐ Return Receipt (hardcopy) \$
- ☐ Return Receipt (electronic) \$
- ☐ Certified Mail Restricted Delivery \$
- ☐ Adult Signature Required \$
- ☐ Adult Signature Restricted Delivery \$

Postage

Total Postage and Fees

Sent To Evans Petroleum, LP
P.O. Box 50885
Midland, Texas 79710

City, State, ZIP+4®

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See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

Alpha Energy Partners, LLC
P.O. Box 10701
Midland, Texas 79702



9590 9402 5751 0003 4255 96

2. Article Number (Transfer from envelope label)

7019 2970 0000 7594 7645

PS Form 3811, July 2015 PSN 7530-02-000-9053

K-F 13R WC Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) Alpha Energy Partners, LLC C. Date of Delivery 4/16/20
- D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
- ☐ Priority Mail Express®
 - ☐ Registered Mail™
 - ☐ Registered Mail Restricted Delivery
 - ☒ Certified Mail®
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation Restricted Delivery

5492 4652 0000 0262 6702

CERTIFIED MAIL RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee

Extra Services & Fees (check box, add fee as appropriate)

- ☐ Return Receipt (hardcopy) \$
- ☐ Return Receipt (electronic) \$
- ☐ Certified Mail Restricted Delivery \$
- ☐ Adult Signature Required \$
- ☐ Adult Signature Restricted Delivery \$

Postage

Total Postage and Fees

Sent To Alpha Energy Partners, LLC
P.O. Box 10701
Midland, Texas 79702

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

COMPULSORY POOLING APPLICATION CHECKLIST

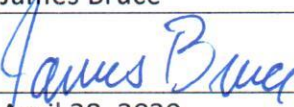
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case:	21167
Date	April 30, 2020
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	Brantley Fee 2419 WC Well No. 2H
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfcamp Formation
Primary Product (Oil or Gas):	Gas
Pooling this vertical extent:	Wolfcamp formation
Pool Name and Pool Code:	Purple Sage; Wolfcamp, Gas/Pool Code 98220
Well Location Setback Rules:	Purple Sage rules and current horizontal well rules
Spacing Unit Size:	Half Section/320 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	640 acres
Building Blocks:	320 acres
Orientation:	West-East
Description: TRS/County	S/2 §24-23S-28E and S/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
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibit 2-B
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Brantley Fee 2419 WC Well No. 2H API No. 30-015-45683 SHL: 975 FSL & 185 FWL §24 BHL: 660 FSL & 330 FEL §19 FTP: 660 FSL & 330 FWL §24 LTP: 660 FSL & 330 FEL §6 Wolfcamp/TVD 10711 feet/MD 21000 feet
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See above

EXHIBIT

5

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 necessary
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit 2-A
Tract List (including lease numbers and owners)	Exhibit 2-B
Pooled Parties (including ownership type)	Exhibit 2-B
Unlocatable Parties to be Pooled	Not applicable
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit 2-C
List of Interest Owners (i.e. Exhibit A of JOA)	Exhibit 2-B
Chronology of Contact with Non-Joined Working Interests	Exhibit 2
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit 2-D
Cost Estimate to Equip Well	Exhibit 2-D
Cost Estimate for Production Facilities	Exhibit 2-D
Geology	
Summary (including special considerations)	Exhibit 3
Spacing Unit Schematic	Exhibit 3-A
Gunbarrel/Lateral Trajectory Schematic	Exhibit 3-C
Well Orientation (with rationale)	Standup/Exhibit 3, page 2
Target Formation	Wolfcamp
HSU Cross Section	Exhibit 3-C
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit 2-A
Tracts	Exhibit 2-A
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit 2-B
General Location Map (including basin)	Exhibit 2-A
Well Bore Location Map	Exhibit 2-A
Structure Contour Map - Subsea Depth	Exhibit 3-A
Cross Section Location Map (including	Exhibit 3-C

wells)	
Cross Section (including Landing Zone)	Exhibit 3-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:	April 28, 2020