

CASE NO. 23211

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

EXHIBITS

1. Application and Proposed Notice
2. Landman's Affidavit
3. 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,
LEA COUNTY, NEW MEXICO.**

Case No. 23211

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 SE/4 of Section 5 and the E/2 of Section 8, Township 24 South, Range 34 East, N.M.P.M., and in support thereof, states:

1. Applicant is an interest owner in the SE/4 of Section 5 and the E/2 of Section 8, and has the right to drill a well or wells thereon.

2. Applicant proposes to drill the following wells to depths sufficient to test the Bone Spring formation, and dedicate the SE/4 of Section 5 and the E/2 of Section 8, containing 480.00 acres, to the wells:

(a) The Bell Lake Unit South Well No. 217H, with a first take point in the NW/4SE/4 of Section 5 and a last take point in the SW/4SE/4 of Section 8; and

(b) The Bell Lake Unit South Well No. 218H, with a first take point in the NE/4SE/4 of Section 5 and a last take point in the SE/4SE/4 of Section 8.

The wells are in the Bell Lake; Bone Spring, South Pool (Pool Code 98264)

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 SE/4 of Section 5 and the E/2 of Section 8 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

EXHIBIT 1

the wells, 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 Spring formation underlying the SE/4 of Section 5 and the E/2 of Section 8, pursuant to NMSA 1978 §70-2-17.

5. The pooling all mineral interest owners in the Bone Spring formation underlying the SE/4 of Section 5 and the E/2 of Section 8 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 SE/4 of Section 5 and the E/2 of Section 8;
- B. Designating applicant as operator of the wells;
- C. Considering the cost of drilling, completing, and equipping the wells and allocating the cost among the wells' 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 cost plus 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, Lea County, New Mexico. Kaiser-Francis Oil Company seeks an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the SE/4 of Section 5 and the E/2 of Section 8, Township 24 South, Range 34 East, N.M.P.M. The unit will be dedicated to (a) The Bell Lake Unit South Well No. 217H, with a first take point in the NW/4SE/4 of Section 5 and a last take point in the SW/4SE/4 of Section 8; and (b) The Bell Lake Unit South Well No. 218H, with a first take point in the NE/4SE/4 of Section 5 and a last take point in the SE/4SE/4 of Section 8. 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 cost plus 200% charge for the risk involved in drilling, completing, and equipping the wells. The unit is located approximately 21-1/2 miles southwest of Eunice, 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, LEA
COUNTY, NEW MEXICO.**

Case No. 23211

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 SE/4 of Section 5 and the E/2 of Section 8, Township 24 South, Range 34 East, NMPM, containing 480 acres.

(i) Pool Code: 98264 Pool Name: Bell Lake; Bone Spring, South Pool, to be dedicated to the Bell Lake Unit South 217H. The well is a horizontal well with a first take point in NW/4 SE/4 of Section 5 and final take point in SW/4 SE/4 of Section 8.

SHL: 2,256' FNL and 1,374' FEL of Section 5 24S-34E

BHL: 71' FSL and 1,566' FEL of Section 8 24S-34E

18,591' MD / 10,701' TVD

EXHIBIT

2

(ii) Pool Code: 98264 Pool Name: Bell Lake; Bone Spring, South Pool, to be dedicated to the Bell Lake Unit South 218H. The well is a horizontal well with a first take point in NE/4 SE/4 of Section 5 and final take point in SE/4 SE/4 of Section 8.

SHL: 2,167' FNL and 339' FEL of Section 5 24S-34E

BHL: 82' FNL and 417' FEL of Section 8 24S-34E

18,640' MD / 10,674' 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 Lea 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 11th day of November, 2022 by Brendon Kushnerick.

My Commission Expires:

9-15-2023



Lisa K. Coats
Notary Public

KAISER-FRANCIS OIL CO

		5							



Fee Acreage

Federal Lease

Bell Lake Unit South 217H & 218H
SE/4 Sec 5 & E/2 Sec 8 24S-34E
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 30-025-46592	² Pool Code 98264	³ Pool Name Bell Lake; Bone Spring, South
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT SOUTH	
⁷ OGRID No. 12361		⁶ Well Number 217H
⁸ Operator Name KAISER-FRANCIS OIL CO.		⁹ Elevation 3583.9

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
G	5	24 S	34 E		2256	NORTH	1374	EAST	LEA

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
O	8	24 S	34 E		71	SOUTH <td>1566</td> <td>EAST</td> <td>LEA</td>	1566	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14600
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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.

	<p style="text-align: center;">¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p style="text-align: right;"> Christina Opfer 3/15/22 Signature Date </p> <p> Christina Opfer Printed Name </p> <p> ChristinaO@kfoc.net E-mail Address </p> <hr/> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p> FEBRUARY 17, 2022 Date of Survey </p> <p style="text-align: center;"> </p> <p> Signature and Seal of Professional Surveyor: Certificate Number: FILIPINO JARAMELLO-PUS 12797 </p>
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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 30-025-46593		² Pool Code 98264		³ Pool Name Bell Lake; Bone Spring, South	
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT SOUTH				⁶ Well Number 218H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY				⁹ Elevation 3573.9

¹⁰ Surface Location

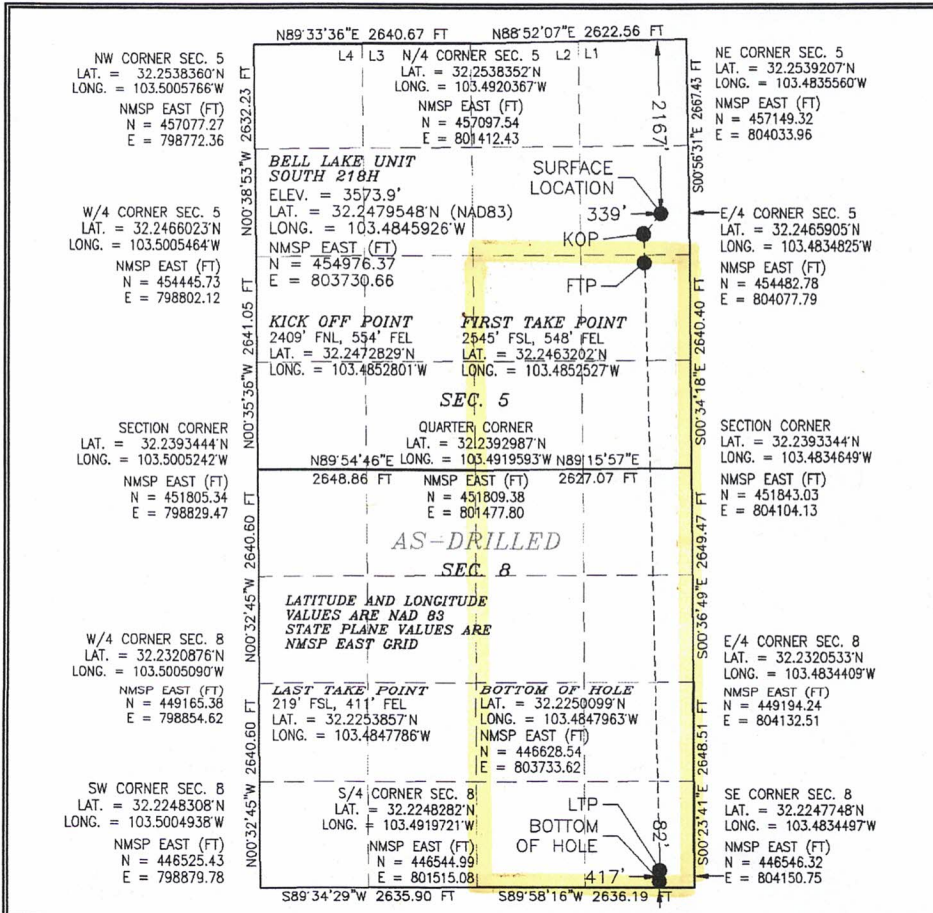
UL or lot no. H	Section 5	Township 24 S	Range 34 E	Lot Idn	Feet from the 2167	North/South line NORTH	Feet from the 339	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 8	Township 24 S	Range 34 E	Lot Idn	Feet from the 82	North/South line SOUTH	Feet from the 417	East/West line EAST	County LEA
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¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14600
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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.

Christina Opfer **3/15/22**
Signature Date

Christina Opfer
Printed Name

ChristinaO@kfoc.net
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.

FEBRUARY 23, 2022
Date of Survey



Signature and Seal of Professional Surveyor:
Certificate Number: E. SIMON F. JARAMILLO, SLS 12797 SURVEY NO. 7597A

C

ATTACHMENT

Mineral Owner	Address line 1	Address line 2	City	State	Zip	Tracts	Tract WI	Tract Net Acres	Unit Gross Acres	Unit Working Interest	217H Net Cost	218H Net Cost
MRC Permian Company	5400 LBJ Freeway	Suite 1500	Dallas	TX	88256	SE/4 SE/4 Sec.8	0.0625	2.5	480	0.0052083	\$ 35,261.93	\$ 35,261.93

SUMMARY OF COMMUNICATIONS

**BELL LAKE UNIT SOUTH 217H
BELL LAKE UNIT SOUTH 218H**

COMPANY NAME: MRC PERMIAN COMPANY	
DATE	ACTIONS/COMMENTS
3/12/2021	Well proposal delivered to MRC Permian Company
3/23/2021	Email correspondence between David Johns (MRC) and David Hamilton (Kaiser)
3/24/2021	Email correspondence between David Hamilton (Kaiser) and David Johns (MRC)
6/7/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
6/13/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
6/14/2022	Form JOA provided to David Johns
6/20/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
6/23/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
6/27/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
7/6/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
7/11/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
7/15/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
7/25/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
7/29/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
8/10/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai
8/25/2022	Email correspondence between David Johns (MRC) and Brendon Kushnerick (Kai

ATTACHMENT 

Copy

KAISER-FRANCIS OIL COMPANY

P.O. BOX 21468 TULSA, OKLAHOMA 74121-1468

6733 South Yale Avenue, 74136

(918) 494-0000

Fax: (918) 491-4383

March 12, 2021

MRC Permian Company
5400 LBJ Freeway, suite 1500
Dallas, Texas 75240
Attention: Van Singleton, II

VIA FEDEX OVERNIGHT DELIVERY

Re: Proposed Wells
Section 5 and 8-24S-34E
Lea County, New Mexico

Gentlemen:

KFOC hereby proposes the drilling and completion of four (4) horizontal wells to test the Bone Spring and Wolfcamp intervals, at the locations as set forth for each respective well below. All wells are planned to be drilled with a horizontal lateral of approximately 1½ miles, on a 480 acre spacing area, covering the Southeast quarter (SE/4) of Section 5 and the East half (E/2) of Section 8, Township 24 South, Range 34 East.

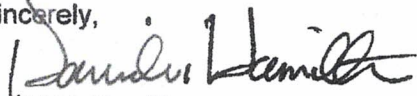
MRC Permian Company ("MRC") owns an Oil and Gas Lease, dated August 27, 2018, from G. Dan Thompson, as Lessor, to Jetstream Oil and Gas Partners, LP, as Lessee, covering lands in Section 8, and covering approximately 2.50 net acres or approximately .0052083 decimal working interest in each of the four wells. The proposed wells and associated particulars are as follows:

1. Bell Lake Unit South #217H well (2nd Bone Spring well) with a first take point ("FTP") and last take point ("LTP") as follows:
 - a. FTP 1605' FEL 2540' FSL of 5-T24S-R34E;
 - b. LTP 100' FSL 1605' FEL of 8-T24S-R34E
2. Bell Lake Unit South #218H wells (2nd Bone Spring well) with a first take point ("FTP") and last take point ("LTP") as follows:
 - a. FTP 380' FEL 2540' FSL of 5-T24S-R34E;
 - b. LTP 100' FSL 380' FEL of 8-T24S-R34E
3. Bell Lake Unit South #417H well (Wolfcamp well) with a first take point ("FTP") and last take point ("LTP") as follows
 - a. FTP 2260' FEL 2540' FSL of 5-T24S-R34E;
 - b. LTP 100' FSL 2260' FEL of 8-T24S-R34E
4. Bell Lake Unit South #418H well (Wolfcamp well) with a first take point ("FTP") and last take point ("LTP") as follows
 - a. FTP 1000' FEL 2540' FSL of 5-T24S-R34E;
 - b. LTP 100' FSL 1000' FEL of 8-T24S-R34E

Enclosed please find AFEs for each of the above four wells, setting forth the detailed costs of drilling and completing each well. In the event MRC elects to participate, please indicate such election by signing in the space provided below and on each AFE, then return executed copies of this letter and AFEs to the attention of the undersigned at the letterhead address above. Each of the four proposed wells are standalone proposals, but consistent elections on all four wells would be appreciated.

Upon receipt of MRC's elections to participate, a joint operating agreement will be forwarded for review and execution. Please advise of any questions you may have via phone at 832-428-2460 or email at davidh@oilednet.com.

Sincerely,



David V. Hamilton
Senior Project Landman

Elections hereby made as follows:

Election to participate in the drilling and completion of each of the four proposed wells

Election to NOT participate in the drilling and completion of each of the four proposed wells

MRC Permian Company

By: _____

Title: _____

Printed Name: _____

WELL NAME & NO:	Bell Lake Unit South #217H	DATE:	12/30/2020
PROSPECT NAME:	Bell Lake	FIELD:	Bell Lake
LOCATION:	5-T24S-R34E 1605FEL 2540FSL/8-T24S-R34E 100FSL	PSH/COUNTY:	Lea
PROPOSED TD:	18,500 MD	STATE:	NM
OBJECTIVE HORIZON:	2nd Bone Spring	PREPARER:	CJ/DZ/BH/RS/JC
OBJECTIVE:	Drill and complete a 7200' lateral Bonespring on a 4 well pad		

Item	Daily Cost	Cost/Ft	Days	Feet	Total Cost	Comments
CONSTRUCTION						
Environmental, Regulatory, and Permitting					\$30,000	
Professional Fees / Abstracts					\$10,000	
Location Damages					\$20,000	
Location Construction / Lease Road Construction					\$45,000	
Earthen Pits/Liners						
Conductor , Rat Hole, Mouse Hole Services					\$22,000	Conductor with pipe & cement, mousehole and cellar
Transportation/Loading						
Supervision					\$3,000	
Misc Contract Labor/Roustabouts						
DRILLING SERVICES						
Footage Contracted Rig						
Drilling Rig	\$19,500		12.5		\$243,750	
Drilling Rig Mob/Post Drill Labor	\$15,600		1		\$15,600	4 wells with walking between
Rig Mobilization					\$30,000	4 wells
Bits & Reamers					\$82,000	1-17.5, 1-12.25, 5-8.75"
Fuel	\$5,000		12.5		\$62,500	
Water(Supply/Disposal/Pressure Truck/Water Well)					\$25,000	
Mud & Chemicals					\$65,000	
Closed Loop System/Mud & Cuttings Disposal/Soil Farming					\$95,000	
Transportation/Loading					\$48,000	
DST, Coring, Analysis						
Mud Logging/Geosteering	\$1,200		12.5		\$15,000	
Wireline Perforating/Logging/Plugs					\$0	
Cement - Conductor						
Cement - Surface					\$21,000	
Cement - Intermediate 1					\$48,000	
Cement - Intermediate 2						
Cement - Drilling Liner						
Cement - Production Liner						
Cement - Production Casing					\$112,000	
Casing Crew/PU LD Machine - Production Liner						
Casing Crew/PU LD Machine - Production Casing					\$25,000	
Casing Crew - Conductor						
Casing Crew - Surface					\$8,500	
Casing Crew - Intermediate 1					\$18,000	
Casing Crew - Intermediate 2						
Casing Crew - Drilling Liner						
Geological/Engineering						
Supervision	\$5,000		12.5		\$62,500	
Misc Contract Labor/Welding					\$52,000	
Drilling Overhead	\$400		12.5		\$5,000	
Liner Hanger					\$0	
Whipstock					\$0	
DIRECTIONAL SERVICES						
Directional Tools	\$	12.50	18500		\$231,250	
Pro Shot/Teledrift						
Geosteering Tools and Services						
Gyro						
Misc						
TOTAL RENTAL					\$289,625	
Misc and Unforeseen					\$136,510	10%
TOTAL INTANGIBLE DRILLING					\$1,821,235	
SURFACE RENTALS					\$186,500	
Company Trailer	\$150		12.5		\$1,875	total 4 trailers, per day
Trailer/Septic/Comm Permits/Setup	\$1,500		4		\$6,000	mob-in fee/permits: 1250 per trailer
Fresh Water System	\$200		12.5		\$2,500	
Septic System & Restroom	\$200		12.5		\$2,500	
Intercom / Internet / Communications	\$250		12.5		\$3,125	
Forklift	\$180		12.5		\$2,250	
Trash Trailer	\$35		12.5		\$438	
Water Line, Pump						
Rotating Head	\$450		12.5		\$5,625	
Centrifuge, Dryer, Men / Chemicals/Solids Control	\$3,300		12.5		\$41,250	
PVT System & Driller Monitor	\$650		12.5		\$8,125	
Sumps, Pump, Steamer	\$250		12.5		\$3,125	
Hydraulic Choke Ignitor	\$530		12.5		\$6,625	
Nipple Up BOPs						
Pits					\$4,500	
Haul Cuttings						
Tanks	\$1,500		12.5		\$18,750	
LCM Bulk Trailer						
Tanks, Pump	\$425		12.5		\$5,313	
Air Packages						
Saver Subs					\$4,000	
LCM Mixer						
Misc Supplies						
Backhoe/Trackhoe	\$10,000		1		\$1,500	
Oil Base Tank Haul						
Flare Stack					\$9,000	
Misc						
DOWNHOLE RENTALS						
Drilling Jars	\$450		12.5		\$5,625	
Shock Sub						
Drill Pipe Rentals & Repair	\$4,600		12.5		\$57,500	
Agitator	\$15,000		1		\$15,000	
Mud Motor						
Misc					\$25,000	DP inspection and repair
EQUIPMENT						
Conductor Casing						
Conductor Casing Downhole / Centralizers / DV Tool						
Surface Casing	\$35.19		1350		\$47,507	13 3/8 54.5 J 55 BTC 2021 COPAS
Surface Casing Downhole / Centralizers / DV Tool					\$12,500	
Intermediate Casing 1	\$28.29		5200		\$147,108	9 5/8 40# P110 HP BTC 2021 COPAS
Intermediate Casing 2					\$19,000	
Intermediate Casing Downhole / Centralizers / DV Tool						
Drilling Liner						
Drilling Liner Downhole / Hanger / Centralizers / DV Tool						
Wellhead					\$35,000	
Transportation/Loading					\$10,000	
Casing Inspection - Conductor						
Casing Inspection - Surface					\$1,200	
Casing Inspection - Intermediate 1					\$3,200	
Casing Inspection - Intermediate 2						
Casing Inspection - Drilling Liner						
Production Liner						
Production Liner / Centralizers / DV Tool						
Production Casing	\$15.43		18500		\$310,455	5-1/2" P110 20 ppf GBCC 2021 COPAS w/ bond coat
Float Equipment / Centralizers / DV Tool					\$60,000	
Non-Controllable Equipment					\$27,551.45	10%
TOTAL WELL AND LEASE EQUIPMENT					\$673,520.95	
PLUG & ABANDON						
TOTAL DRILLING COST					\$2,494,756	
TOTAL WELL COST					\$6,770,291	

ATTACHMENT 

OPERATOR: Kaiser Frac Drilling Company
 WELL NAME & NO: Bell Lake Unit South #217H DATE: 12/30/20
 PROSPECT NAME: Bell Lake FIELD: Bell Lake
 LOCATION: 5-T24S-R34E 1605FSL/8-T24S-R34E 100FSL STATE: NM
 PROPOSED TD: 18500 PSH/COUNTY: Lea
 OBJECTIVE HORIZON: 2nd Bone Spring PREPARED: CJ/DZ/BH/RS/JC
 OBJECTIVE: Drill and complete a 7200' lateral Bonespring on a 4 well pad

Item	Daily Cost Cost/ft	Days Feet	Total Cost	Comments
CONSTRUCTION				
Environmental, Regulatory, and Permitting				
Location Damages/ROW/Frac Pad Rental				
Location Construction / Refurb before completion			\$14,000	
Frac Pit		1		
Transportation/Loading			\$0	
Supervision	\$750	5	\$3,750	
Misc Contract Labor/Roustabouts			\$0	
COMPLETION SERVICES				
Completion Rig	\$4,000	2	\$8,000	Running GLVs
Swab Rig				
Snubbing Unit				
Coiled Tubing Unit	\$28,000	2	\$56,000	CT D/O
Water	\$1.00	450000	\$450,000	includes tax, transfer to pad and frac pond
Water Transfer	\$6,100			
Water Heating				
Mud & Chemicals			\$25,000	Chems for D/O + mixing pit
Mud & Chemicals Disposal/SWD/Haul Off			\$20,000	Flowback Haul off before sending to disposal or capturing for re-use
Transportation/Loading			\$50,000	23M Drilling 27M Completion (Mob/de-mod 20 frac tanks)
Slickline				
Wireline Logging/Perforating/TCP/Lubricator	\$3,000	44	\$132,000	Toe sleeve pump down. WL packer. 42x 3000/st during frac ops
Plugs	\$1,000	42	\$42,000	CFPs
Casing Crew - Tieback	\$0	0		
Stimulation	\$47,000	43	\$2,021,000	43 stages, 100 BPM, 425M and 10500bbls/stage (all white sand). 2450#/ft - WL inc
Geological/Engineering	\$1,000	10	\$10,000	
Supervision(Run Casing/Completion/Wellwork)	\$1,000	42	\$42,000	completion and battery const
Misc Contract Labor/Flowhands/Roustabouts	\$2,000	24	\$48,000	Flowhands
Overhead(Run Casing/Completion/Wellwork)	\$350	15	\$5,250	
TOTAL RENTAL			\$184,870	
Misc and Unforeseen			\$311,187	10%
TOTAL INTANGIBLE COMPLETION COST			\$3,423,057	
SURFACE RENTALS				
Total Surface Rental			\$157,370	
Frac Tank Rental	\$1,000	15	\$15,000	water/acid tank
Frac Pond Rental	\$20,000	0		in water price
Flowline Rental				
BOP Rental/Hydril	\$540	5	\$2,700	Running tubing
Wellhead Protection				
Frac Valves/Tree/Stack	\$4,000	20	\$80,000	4000/d is rental +greasing/frac watch
FAU/Pump and Pit/Power Swivel				
Nitrogen Pumper				
Company Trailer/Communications/Septic	\$315	18	\$5,670	shared cost
Crane	\$2,000	7	\$14,000	shared cost
Pump Down Trucks	\$2,500	7	\$17,500	shared cost
Backside pump	\$1,000	7	\$7,000	shared cost
Light Plant/Generator	\$400	20	\$8,000	shared cost
Fork Lift	\$500	15	\$7,500	shared cost
PU/LD machine		0		
Manlift				
Misc				
DOWNHOLE RENTALS				
Total Downhole Rental			\$27,500	
Thru-Tubing Tools	\$3,500	1	\$3,500	1 mill D/O
Polish mill run	\$12,000	2	\$24,000	CT BHA for prep and D/O
Packer/RBP/Service Tools				
Fishing Tools				
Tie Back String Rental & Repair				
Downhole Video/Camera				
2-3/8" Work String				
Misc				
Misc				
Misc				
EQUIPMENT				
Tubing	\$5.93	10500	\$62,265	2-7/8" 6.5# L-80 EUE 2021 COPAS
Wellhead	\$40,000	1	\$40,000	5M Stainless Production tree + 10M tubing head
Packer/Downhole Equipment	\$20,000	1	\$20,000	Packer + GLVs
Completion System				
Liner Packer/Hanger				
Rods				
Rod Pump & TA				
Transportation/Loading			\$2,000	
Casing Inspection			\$5,000	Included on drilling side
Non-Controllable Equipment			\$6,463	5%
TOTAL WELL AND LEASE EQUIPMENT			\$135,728	
TOTAL COMPLETED WELL COST			\$3,558,785	
EQUIPMENT/CONSTRUCTION				
Gas Permits and Environmental				
Location Restoration			\$36,000	34000 Lined Tank containment. 2000/tank pad
Transportation/Loading				
Misc Contract Labor/Roustabouts/Electrician			\$45,000	Build Battery
Misc and Unforeseen			\$4,050.00	5%
TOTAL INTANGIBLE EQUIP/CONSTRUCTION			\$85,050	
Automation/SCADA/ Misc Electrical Equipment			\$30,000	
Line Pipe/Fittings/Pipeline			\$252,000	\$45K for location, \$207K for corridor allocation
Valves			\$40,000	
Tanks/Walkways			\$90,000	2 X 1000 bbl steel, 2 X 1000 coated steel
Heater/Treater/Separator			\$70,000	6" X 20 250# 3phase, 8 X 20' heater
Vapor Recovery Unit				Rental
Artificial Lift				
Compressor			\$40,000	Radar tank gauges. Coriolis oil meters. Gas check meter. RTU. Wireless
Gas Sales Unit/Production Unit/Dehy/Flare			\$10,000	Flare (shared)
Transportation/Loading			\$45,000	
Non-Controllable Equipment			\$54,700	10%
TOTAL TANGIBLE EQUIP/CONSTRUCTION			\$631,700	
TOTAL EQUIPMENT/CONSTRUCTION			\$716,750	

Drilling and Rental Equipment Cost Detail

OPERATOR:	Kaiser-Francis Oil Company	DATE:	12/30/2020
WELL NAME & NO:	Bell Lake Unit South #218H	FIELD:	Bell Lake
PROSPECT NAME:	Bell Lake	PSH/COUNTY:	Lea
LOCATION:	5-T245-R34E 380FEL 2540FSL/8-T245-R34E 100FSL	STATE:	NM
PROPOSED TD:	18,500 MD	10730	TVD
OBJECTIVE HORIZON:	2nd Bone Spring	PREPARER:	CJ/DZ/BH/RS/JC
OBJECTIVE:	Drill and complete a 7200' lateral Bonespring on a 4 well pad		

Item	Daily Cost Cost/ft	Days Feet	Total Cost	Comments
CONSTRUCTION				
Environmental, Regulatory, and Permitting			\$30,000	
Professional Fees / Abstracts			\$10,000	
Location Damages			\$20,000	
Location Construction / Lease Road Construction			\$45,000	
Earthen Pits/Liners				
Conductor , Rat Hole, Mouse Hole Services			\$22,000	Conductor with pipe & cement, mousehole and cellar
Transportation/Loading				
Supervision			\$3,000	
Misc Contract Labor/Roustabouts				
DRILLING SERVICES				
Footage Contracted Rig				
Drilling Rig	\$19,500	12.5	\$243,750	
Drilling Rig Mob/Post Drill Labor	\$15,600	1	\$15,600	4 wells with walking between
Rig Mobilization			\$30,000	4 wells
Bits & Reamers			\$82,000	1-17.5, 1-12.25, 5-8.75"
Fuel	\$5,000	12.5	\$62,500	
Water(Supply/Disposal/Pressure Truck/Water Well)			\$25,000	
Mud & Chemicals			\$65,000	
Closed Loop System/Mud & Cuttings Disposal/Soil Farming			\$95,000	
Transportation/Loading			\$48,000	
DST, Coring, Analysis				
Mud Logging/Geosteering	\$1,200	12.5	\$15,000	
Wireline Perforating/Logging/Plugs			\$0	
Cement - Conductor			\$21,000	
Cement - Surface			\$48,000	
Cement - Intermediate 1				
Cement - Intermediate 2			\$112,000	
Cement - Drilling Liner				
Cement - Production Liner			\$25,000	
Cement - Production Casing				
Casing Crew/PU LD Machine - Production Liner			\$8,500	
Casing Crew/PU LD Machine - Production Casing			\$18,000	
Casing Crew- Conductor				
Casing Crew - Surface			\$8,500	
Casing Crew - Intermediate 1			\$18,000	
Casing Crew - Intermediate 2				
Casing Crew - Drilling Liner				
Geological/Engineering				
Supervision	\$5,000	12.5	\$62,500	
Misc Contract Labor/Welding			\$52,000	
Drilling Overhead	\$400	12.5	\$5,000	
Liner Hanger			\$0	
Whipstock			\$0	
DIRECTIONAL SERVICES				
Directional Tools	\$	12.50	\$231,250	
Pro Shot/teledrift				
Geosteering Tools and Services				
Gyro				
Misc				
TOTAL RENTAL			\$289,625	
Misc and Unforeseen			\$136,510	10%
TOTAL INTANGIBLE DRILLING				
			\$1,821,235	
SURFACE RENTALS				
Total Surface Rentals			\$186,500	
Company Trailer	\$150	12.5	\$1,875	total 4 trailers, per day
Trailer/Septic/Comm Permits/Setup	\$1,500	4	\$6,000	mob-in fee/permits: 1250 per trailer
Fresh Water System	\$200	12.5	\$2,500	
Septic System & Restroom	\$200	12.5	\$2,500	
Intercom / Internet / Communications	\$250	12.5	\$3,125	
Forklift	\$180	12.5	\$2,250	
Trash Trailer	\$35	12.5	\$438	
Water Line, Pump				
Rotating Head	\$450	12.5	\$5,625	
Centrifuge, Dryer, Men / Chemicals/Solids Control	\$3,300	12.5	\$41,250	
PVT System & Driller Monitor	\$650	12.5	\$8,125	
Sumps, Pump, Steamer	\$250	12.5	\$3,125	
Hydraulic Choke Ignitor	\$530	12.5	\$6,625	
Nipple Up BOPs				
Pits			\$4,500	
Haul Cuttings				
Tanks	\$1,500	12.5	\$18,750	
LCM Bulk Trailer				
Tanks, Pump	\$425	12.5	\$5,313	
Air Packages				
Saver Subs			\$4,000	
LCM Mixer				
Misc Supplies				
Backhoe/Trackhoe	\$10,000	1	\$1,500	
Oil Base Tank Haul				
Flare Stack			\$9,000	
Misc				
Misc				
DOWNHOLE RENTALS				
Total Downhole Rentals			\$103,125	
Drilling Jars	\$450	12.5	\$5,625	
Shock Sub				
Drill Pipe Rentals & Repair	\$4,600	12.5	\$57,500	
Agitator	\$15,000	1	\$15,000	
Mud Motor				
Misc			\$25,000	DP inspection and repair
EQUIPMENT				
Conductor Casing				
Conductor Casing Downhole / Centralizers / DV Tool				
Surface Casing	\$35.19	1350	\$47,507	13 3/8 54.5 J 55 BTC 2021 COPAS
Surface Casing Downhole / Centralizers / DV Tool			\$12,500	
Intermediate Casing 1	\$28.29	5200	\$147,108	9 5/8 40# P110 HP BTC 2021 COPAS
Intermediate Casing Downhole / Centralizers / DV Tool			\$19,000	
Intermediate Casing 2				
Intermediate Casing Downhole / Centralizers / DV Tool				
Drilling Liner				
Drilling Liner Downhole / Hanger / Centralizers / DV Tool			\$35,000	
Wellhead			\$10,000	
Transportation/Loading				
Casing Inspection - Conductor			\$1,200	
Casing Inspection - Surface			\$3,200	
Casing Inspection - Intermediate 1				
Casing Inspection - Intermediate 2				
Casing Inspection - Drilling Liner				
Production Liner				
Production Liner / Centralizers / DV Tool				
Production Casing	\$15.43	18500	\$310,455	5-1/2" P110 20 ppf GBCD 2021 COPAS w/ bond coat
Float Equipment / Centralizers / DV Tool			\$60,000	
Non-Controllable Equipment			\$27,551.45	10%
TOTAL WELL AND LEASE EQUIPMENT			\$673,520.95	
PLUG & ABANDON				
TOTAL DRILLING COST			\$2,494,756	
TOTAL WELL COST			\$6,770,291	

OPERATOR:	Kaiser-Franke Oil Company	DATE:	12/30/20
WELL NAME & NO:	Bell Lake Unit South #218H	FIELD:	Bell Lake
PROSPECT NAME:	Bell Lake	PSH/COUNTY:	Lea
LOCATION:	5-T24S-R34E 380FEL 2540FSL/8-T24S-R34E 100FSL	STATE:	NM
PROPOSED TD:	18500	PREPARER:	CJ/DZ/BH/RS/JC
OBJECTIVE HORIZON:	2nd Bone Spring		
OBJECTIVE:	Drill and complete a 7200' lateral Bonespring on a 4 well pad		

Item	Daily Cost Cost/ft	Days Feet	Total Cost	Comments
CONSTRUCTION				
Environmental, Regulatory, and Permitting				
Location Damages/ROW/Frac Pad Rental			\$14,000	
Location Construction / Refurb before completion				
Frac Pit		1		
Transportation/Loading			\$0	
Supervision	\$750	5	\$3,750	
Misc Contract Labor/Roustabouts			\$0	
COMPLETION SERVICES				
Completion Rig	\$4,000	2	\$8,000	Running GLVs
Swab Rig				
Snubbing Unit				
Coiled Tubing Unit	\$28,000	2	\$56,000	CT D/O
Water	\$1.00	450000	\$450,000	includes tax, transfer to pad and frac pond
Water Transfer	\$6,100			
Water Heating				
Mud & Chemicals			\$25,000	Chems for D/O + mixing pit
Mud & Chemicals Disposal/SWD/Haul Off			\$20,000	Flowback Haul off before sending to disposal or capturing for re-use
Transportation/Loading			\$50,000	23M Drilling 27M Completion (Mob/le-mod 20 frac tanks)
Slickline				
Wireline Logging/Perforating/TCP/Lubricator	\$3,000	44	\$132,000	Toe sleeve pump down. WL packer. 42x 3000/ft during frac ops
Plugs	\$1,000	42	\$42,000	CFPs
Casing Crew - Tieback	\$0	0		
Stimulation	\$47,000	43	\$2,021,000	43 stages, 100 BPM, 425M and 10500bbis/stage (all white sand). 2450#/ft - WL Inc
Geological/Engineering	\$1,000	10	\$10,000	
Supervision(Run Casing/Completion/Wellwork)	\$1,000	42	\$42,000	completion and battery const
Misc Contract Labor/Flowhands/Roustabouts	\$2,000	24	\$48,000	Flowhands
Overhead(Run Casing/Completion/Wellwork)	\$350	15	\$5,250	
TOTAL RENTAL			\$184,870	
Misc and Unforeseen			\$311,187	10%
TOTAL INTANGIBLE COMPLETION COST			\$3,423,057	
SURFACE RENTALS				
Total Surface Rental			\$157,370	
Frac Tank Rental	\$1,000	15	\$15,000	water/acid tank
Frac Pond Rental	\$20,000	0		in water price
Flowline Rental				
BOP Rental/Hydril	\$540	5	\$2,700	Running tubing
Wellhead Protection				
Frac Valves/Tree/Stack	\$4,000	20	\$80,000	4000/d is rental +greasing/frac watch
FAU/Pump and PU/Power Swivel				
Nitrogen Pumper				
Company Trailer/Communications/Septic	\$315	18	\$5,670	shared cost
Crane	\$2,000	7	\$14,000	shared cost
Pump Down Trucks	\$2,500	7	\$17,500	shared cost
Backside pump	\$1,000	7	\$7,000	shared cost
Light Plant/Generator	\$400	20	\$8,000	shared cost
Fork Lift	\$500	15	\$7,500	shared cost
PU/LD machine		0		
Manlift				
Misc				
DOWNHOLE RENTALS				
Total Downhole Rental			\$27,500	
Thru-Tubing Tools	\$3,500	1	\$3,500	1 mill D/O
Polish mill run	\$12,000	2	\$24,000	CT BHA for prep and D/O
Packer/RBP/Service Tools				
Fishing Tools				
Tie Back String Rental & Repair				
Downhole Video/Camera				
2-3/8" Work String				
Misc				
Misc				
Misc				
EQUIPMENT				
Tubing	\$5.93	10500	\$62,265	2-7/8" 6.58 L-80 EUE 2021 COPAS
Wellhead	\$40,000	1	\$40,000	5M Stainless Production tree + 10M tubing head
Packer/Downhole Equipment	\$20,000	1	\$20,000	Packer + GLVs
Completion System				
Liner Packer/Hanger				
Rods				
Rod Pump & TA			\$2,000	
Transportation/Loading			\$2,000	
Casing Inspection			\$5,000	Included on drilling side
Non-Controllable Equipment			\$6,463	5%
TOTAL WELL AND LEASE EQUIPMENT			\$135,728	
TOTAL COMPLETED WELL COST			\$9,558,785	
EQUIPMENT/CONSTRUCTION				
Gas Permits and Environmental				
Location Restoration			\$36,000	34000 Lined Tank containment. 2000/tank pad
Transportation/Loading				
Misc Contract Labor/Roustabouts/Electrician			\$45,000	Build Battery
Misc and Unforeseen			\$4,050.00	5%
TOTAL INTANGIBLE EQUIP/CONSTRUCTION			\$85,050	
Automation/SCADA/ Misc Electrical Equipment			\$30,000	
Line Pipe/Fittings/Pipeline			\$252,000	\$45K for location, \$207K for corridor allocation
Valves			\$40,000	
Tanks/Walkways			\$90,000	2 X 1000 bbl steel, 2 X 1000 coated steel
Heater Treater/Separator			\$70,000	6' X 20' 250# 3phase, 8 X 20' heater
Vapor Recovery Unit				Rental
Artificial Lift				
Compressor			\$40,000	Radar tank gauges. Coriolis oil meters. Gas check meter. RTU. Wireless
Gas Sales Unit/Production Unit/Dehy/Flare			\$10,000	Flare (shared)
Transportation/Loading			\$45,000	
Non-Controllable Equipment			\$54,700	10%
TOTAL TANGIBLE EQUIP/CONSTRUCTION			\$631,700	
TOTAL EQUIPMENT/CONSTRUCTION			\$716,750	

**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. 23211

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 3rd Bone Spring Lime. This marks the base of the 2nd Bone Spring sand and shows that structure dips to the South in this unit. It also displays a line of cross-section A – A' and the location of the KFOC-Bell Lake South #217H and Bell Lake South #218H wells (wellbores highlighted in yellow). The completed interval in these wells 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 units.
 - (c) Attachment C is stratigraphic cross section A – A' hung on the top of the 3rd Bone Spring Lime (base 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 the wells landing points are indicated by the blue 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 unit will contribute more or less equally to production from the wells.

EXHIBIT 3

(c) There is no faulting or other geologic impediment which adversely affected the drilling of the subject wells.


5. Based on production from wells in this area, KFOC sees North-South as the preferred orientation for wells in this area.

6. Attachment D contains the final horizontal drilling surveys for the wells. The producing interval of the wells are orthodox, and 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.



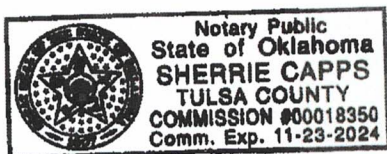
Lee J. Lindman

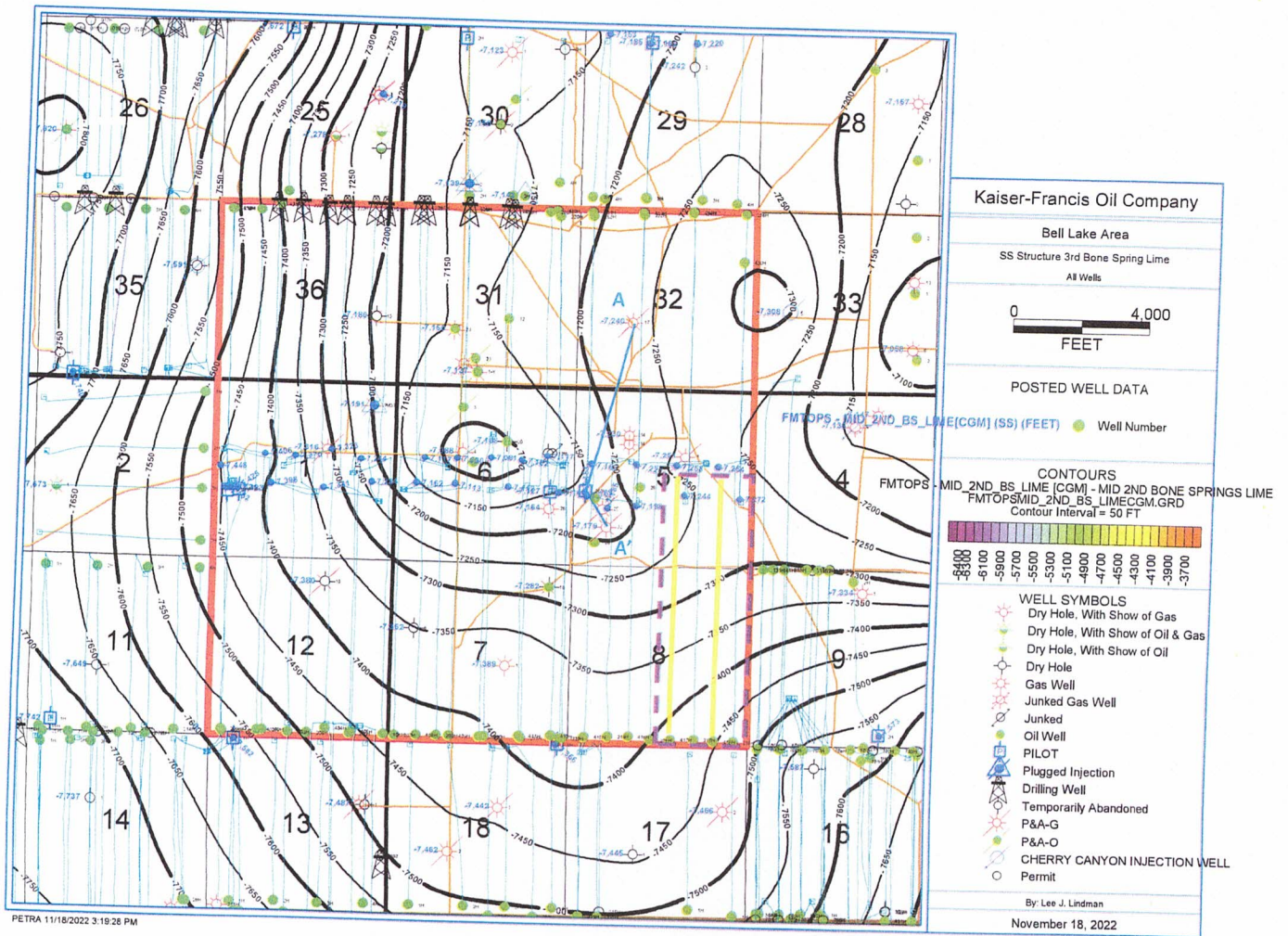
SUBSCRIBED AND SWORN TO before me this 21 day of November 2022 by Sherrie Capps.

My Commission Expires: 11-23-2024



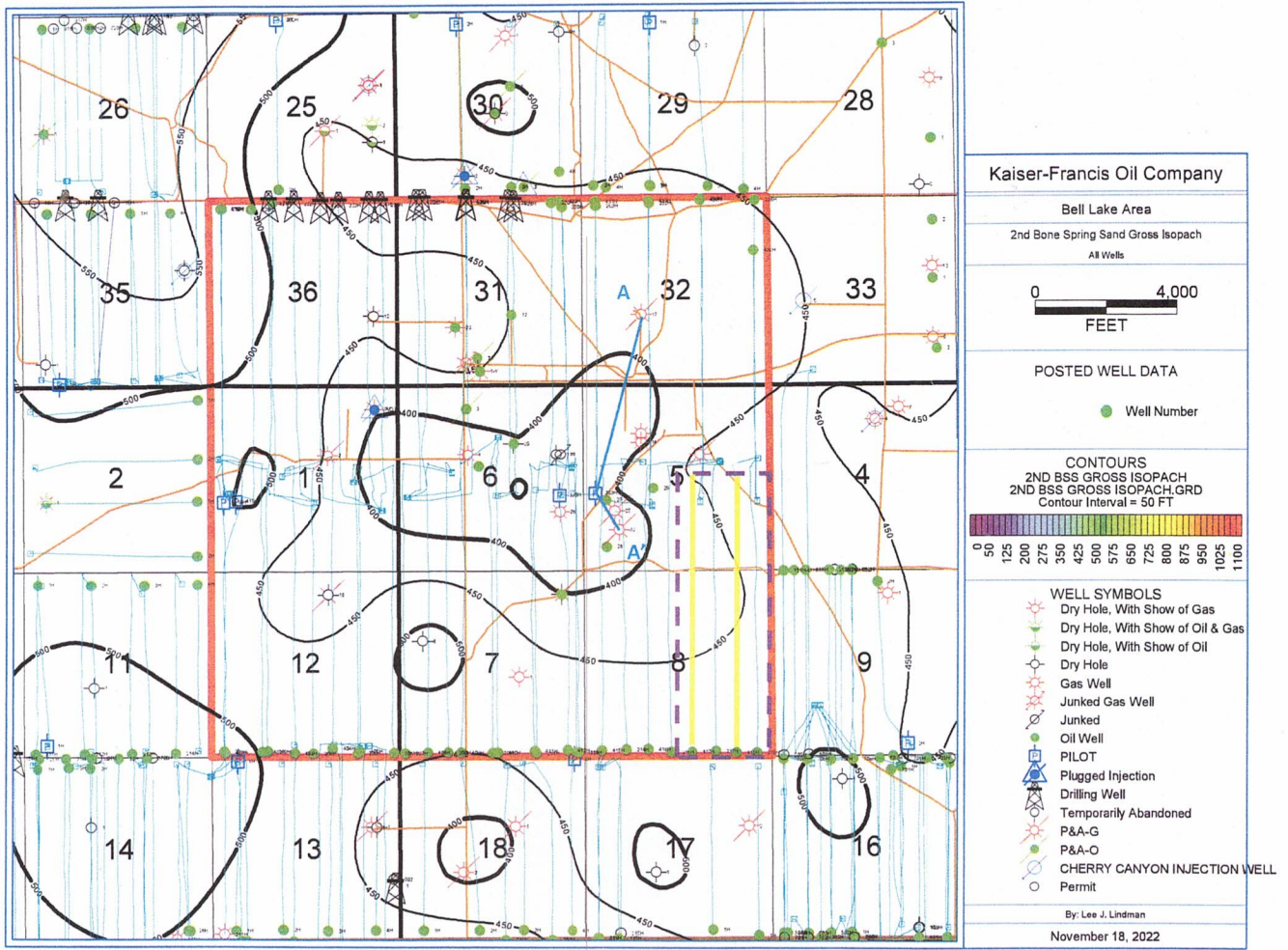
Notary Public





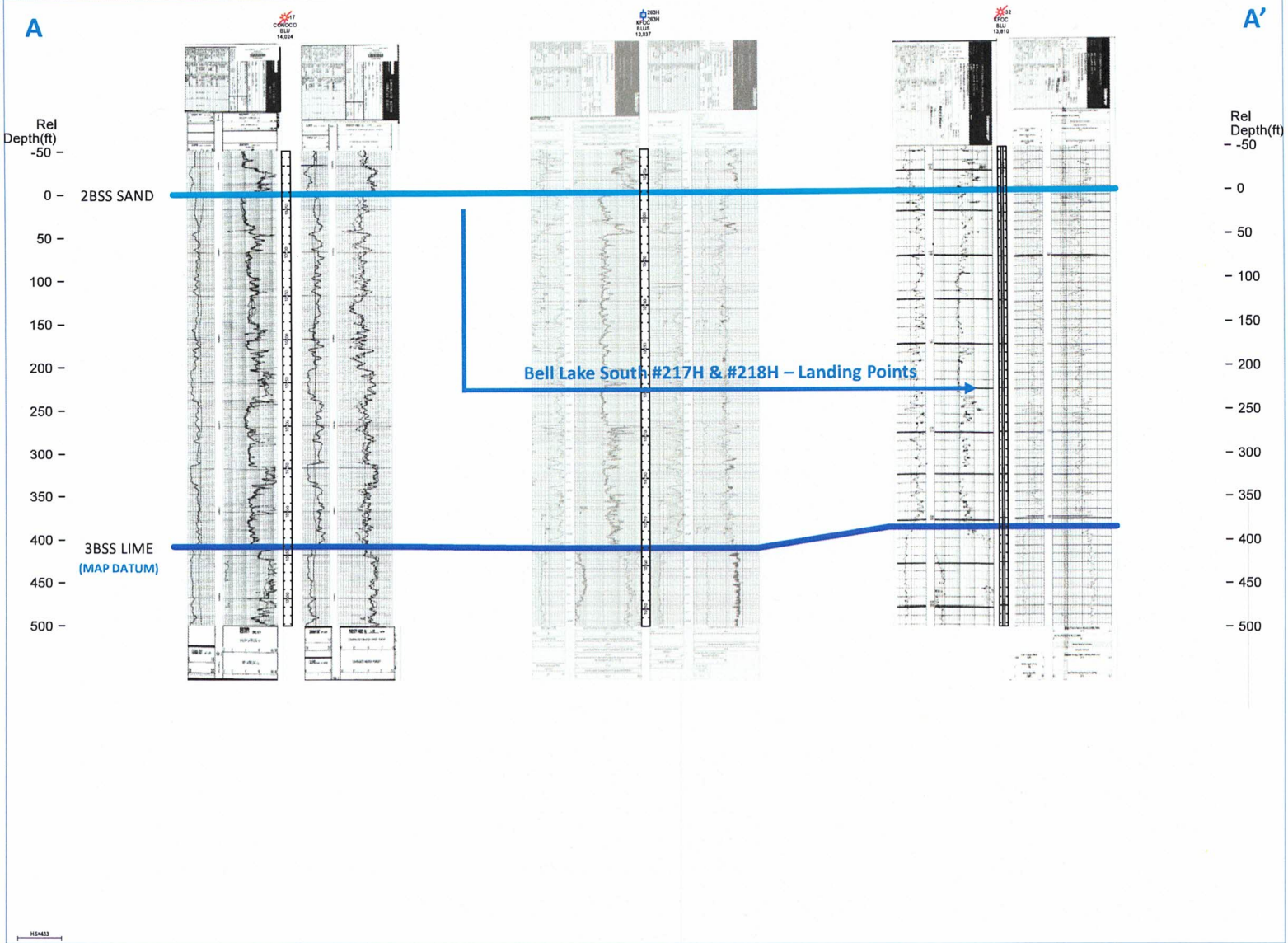
ATTACHMENT

A



ATTACHMENT B

X-Section A - A'



ATTACHMENT

C



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 5-T24S-R34E

BELL LAKE UNIT S. 217H

HORIZONTAL

Survey: Survey #1

Standard Survey Report

24 May, 2021

ATTACHMENT

D

Kaiser-Francis Oil Company



SB Directional Services
Survey Report

Kaiser-Francis Oil Company

Company: KAISER FRANCIS OIL CO.
Project: LEA COUNTY, N.M. 27
Site: SEC 5-T24S-R34E
Well: BELL LAKE UNIT S. 217H
Wellbore: HORIZONTAL
Design: HORIZONTAL

Local Co-ordinate Reference: Well BELL LAKE UNIT S. 217H
TVD Reference: GE+23.5 @ 3607.40usft (CAC 169)
MD Reference: GE+23.5 @ 3607.40usft (CAC 169)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Project	LEA 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 5-T24S-R34E				
Site Position:		Northing:	454,917.32 usft	Latitude:	32.24783
From:	Map	Easting:	762,546.69 usft	Longitude:	-103.48412
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	BELL LAKE UNIT S. 217H					
Well Position	+N/-S	0.00 usft	Northing:	454,807.83 usft	Latitude:	32.24755
	+E/-W	0.00 usft	Easting:	761,513.58 usft	Longitude:	-103.48746
Position Uncertainty	0.00 usft		Wellhead Elevation:	3,583.90 usft	Ground Level:	3,583.90 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2021/03/15	6.54	59.94	47,541.44982955

Design	HORIZONTAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date	2021/05/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.00	18,648.00	Survey #1 (HORIZONTAL)	MWD	OWSG MWD - Standard	

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
141.00	0.70	93.98	141.00	-0.06	0.86	0.06	0.50	0.50	0.00
229.00	1.10	95.91	228.99	-0.18	2.24	0.18	0.46	0.45	2.19
326.00	1.36	75.88	325.96	0.00	4.28	0.00	0.51	0.27	-20.65
508.00	1.45	67.70	507.91	1.40	8.50	-1.40	0.12	0.05	-4.49
599.00	1.49	65.77	598.88	2.32	10.65	-2.32	0.07	0.04	-2.12
691.00	1.49	63.66	690.85	3.35	12.81	-3.35	0.06	0.00	-2.29
783.00	1.27	61.81	782.82	4.36	14.78	-4.36	0.24	-0.24	-2.01
875.00	1.14	60.67	874.80	5.29	16.48	-5.29	0.14	-0.14	-1.24
966.00	0.88	55.40	965.79	6.13	17.84	-6.13	0.30	-0.29	-5.79



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company: KAISER FRANCIS OIL CO.
Project: LEA COUNTY, N.M. 27
Site: SEC 5-T24S-R34E
Well: BELL LAKE UNIT S. 217H
Wellbore: HORIZONTAL
Design: HORIZONTAL

Local Co-ordinate Reference: Well BELL LAKE UNIT S. 217H
TVD Reference: GE+23.5 @ 3607.40usft (CAC 169)
MD Reference: GE+23.5 @ 3607.40usft (CAC 169)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

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)
1,058.00	0.88	37.29	1,057.78	7.09	18.85	-7.09	0.30	0.00	-19.68
1,160.00	0.75	20.15	1,159.77	8.34	19.56	-8.34	0.27	-0.13	-16.80
1,249.00	0.48	7.14	1,248.76	9.26	19.80	-9.26	0.34	-0.30	-14.62
1,438.00	0.66	3.01	1,437.75	11.13	19.96	-11.13	0.10	0.10	-2.19
1,533.00	0.75	34.57	1,532.74	12.19	20.34	-12.19	0.41	0.09	33.22
1,628.00	0.53	32.72	1,627.74	13.07	20.93	-13.07	0.23	-0.23	-1.95
1,723.00	1.05	31.75	1,722.73	14.18	21.63	-14.18	0.55	0.55	-1.02
1,818.00	1.23	52.14	1,817.71	15.55	22.89	-15.55	0.46	0.19	21.46
1,912.00	1.05	59.35	1,911.69	16.60	24.43	-16.60	0.24	-0.19	7.67
2,007.00	0.97	37.12	2,006.68	17.69	25.66	-17.69	0.42	-0.08	-23.40
2,102.00	0.92	28.77	2,101.66	19.00	26.51	-19.00	0.15	-0.05	-8.79
2,197.00	1.19	10.48	2,196.65	20.64	27.06	-20.64	0.45	0.28	-19.25
2,292.00	1.36	10.31	2,291.63	22.72	27.44	-22.72	0.18	0.18	-0.18
2,387.00	1.27	23.23	2,386.60	24.79	28.06	-24.79	0.33	-0.09	13.60
2,482.00	0.62	331.29	2,481.59	26.21	28.23	-26.21	1.07	-0.68	-54.67
2,577.00	1.36	255.70	2,576.58	26.38	26.89	-26.38	1.42	0.78	-79.57
2,672.00	1.32	276.27	2,671.55	26.23	24.71	-26.23	0.51	-0.04	21.65
2,767.00	1.10	275.91	2,766.53	26.44	22.71	-26.44	0.23	-0.23	-0.38
2,862.00	1.10	305.18	2,861.51	27.06	21.06	-27.06	0.59	0.00	30.81
2,957.00	1.27	307.91	2,956.49	28.23	19.48	-28.23	0.19	0.18	2.87
3,052.00	1.23	331.11	3,051.47	29.77	18.16	-29.77	0.53	-0.04	24.42
3,147.00	1.54	333.57	3,146.44	31.81	17.10	-31.81	0.33	0.33	2.59
3,243.00	1.63	346.84	3,242.41	34.29	16.21	-34.29	0.39	0.09	13.82
3,337.00	0.66	321.27	3,336.39	36.01	15.57	-36.01	1.14	-1.03	-27.20
3,432.00	0.84	215.62	3,431.38	35.88	14.82	-35.88	1.26	0.19	-111.21
3,527.00	0.53	179.94	3,526.38	34.87	14.42	-34.87	0.54	-0.33	-37.56
3,622.00	0.53	104.26	3,621.37	34.32	14.84	-34.32	0.68	0.00	-79.66
3,717.00	0.66	104.53	3,716.37	34.08	15.80	-34.08	0.14	0.14	0.28
3,812.00	1.14	67.70	3,811.36	34.30	17.20	-34.30	0.77	0.51	-38.77
3,907.00	0.84	63.92	3,906.34	34.96	18.70	-34.96	0.32	-0.32	-3.98
4,002.00	0.84	61.02	4,001.33	35.61	19.94	-35.61	0.04	0.00	-3.05
4,097.00	0.88	55.22	4,096.32	36.36	21.15	-36.36	0.10	0.04	-6.11
4,192.00	0.92	63.48	4,191.31	37.12	22.43	-37.12	0.14	0.04	8.69
4,287.00	1.67	105.49	4,286.29	37.09	24.44	-37.09	1.22	0.79	44.22
4,382.00	2.42	113.05	4,381.23	35.93	27.62	-35.93	0.84	0.79	7.96
4,477.00	2.51	107.96	4,476.14	34.51	31.45	-34.51	0.25	0.09	-5.36
4,572.00	3.21	106.64	4,571.02	33.10	35.98	-33.10	0.74	0.74	-1.39
4,667.00	4.04	106.90	4,665.83	31.37	41.73	-31.37	0.87	0.87	0.27
4,762.00	4.97	107.78	4,760.53	29.14	48.85	-29.14	0.98	0.98	0.93
4,858.00	5.54	103.65	4,856.13	26.78	57.31	-26.78	0.71	0.59	-4.30
4,953.00	5.71	101.89	4,950.67	24.72	66.39	-24.72	0.25	0.18	-1.85
4,992.00	5.27	102.07	4,989.49	23.94	70.04	-23.94	1.13	-1.13	0.46
5,142.00	4.00	111.82	5,139.00	20.56	81.63	-20.56	0.99	-0.85	6.50
5,237.00	2.73	133.00	5,233.84	17.78	86.37	-17.78	1.85	-1.34	22.29



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company: KAISER FRANCIS OIL CO.
Project: LEA COUNTY, N.M. 27
Site: SEC 5-T24S-R34E
Well: BELL LAKE UNIT S. 217H
Wellbore: HORIZONTAL
Design: HORIZONTAL

Local Co-ordinate Reference: Well BELL LAKE UNIT S. 217H
TVD Reference: GE+23.5 @ 3607.40usft (CAC 169)
MD Reference: GE+23.5 @ 3607.40usft (CAC 169)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

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)
5,332.00	3.60	160.60	5,328.70	13.43	89.01	-13.43	1.82	0.92	29.05
5,427.00	3.21	174.49	5,423.53	7.97	90.26	-7.97	0.96	-0.41	14.62
5,522.00	2.90	175.98	5,518.40	2.92	90.68	-2.92	0.34	-0.33	1.57
5,617.00	2.20	205.16	5,613.31	-1.13	90.07	1.13	1.53	-0.74	30.72
5,712.00	2.33	224.50	5,708.23	-4.15	87.95	4.15	0.81	0.14	20.36
5,807.00	3.60	238.47	5,803.11	-7.09	84.05	7.09	1.53	1.34	14.71
5,902.00	4.31	241.64	5,897.88	-10.35	78.37	10.35	0.78	0.75	3.34
5,997.00	3.96	243.13	5,992.63	-13.52	72.30	13.52	0.39	-0.37	1.57
6,092.00	3.74	243.39	6,087.42	-16.39	66.60	16.39	0.23	-0.23	0.27
6,187.00	3.74	244.19	6,182.22	-19.13	61.04	19.13	0.05	0.00	0.84
6,282.00	3.78	245.33	6,277.01	-21.79	55.41	21.79	0.09	0.04	1.20
6,377.00	3.78	247.09	6,371.80	-24.31	49.68	24.31	0.12	0.00	1.85
6,472.00	3.69	244.98	6,466.60	-26.83	44.02	26.83	0.17	-0.09	-2.22
6,567.00	3.82	244.54	6,561.40	-29.48	38.40	29.48	0.14	0.14	-0.46
6,662.00	3.69	242.60	6,656.20	-32.25	32.82	32.25	0.19	-0.14	-2.04
6,757.00	4.79	259.39	6,750.94	-34.38	26.21	34.38	1.73	1.16	17.67
6,852.00	4.44	260.01	6,845.63	-35.75	18.69	35.75	0.37	-0.37	0.65
6,947.00	4.31	260.01	6,940.35	-37.01	11.55	37.01	0.14	-0.14	0.00
7,043.00	4.48	255.44	7,036.07	-38.58	4.37	38.58	0.41	0.18	-4.76
7,137.00	4.70	262.64	7,129.77	-39.99	-3.00	39.99	0.66	0.23	7.66
7,233.00	5.98	278.46	7,225.36	-39.76	-11.85	39.76	2.02	1.33	16.48
7,328.00	5.80	278.81	7,319.85	-38.30	-21.49	38.30	0.19	-0.19	0.37
7,423.00	5.49	279.43	7,414.39	-36.82	-30.71	36.82	0.33	-0.33	0.65
7,518.00	5.49	277.50	7,508.96	-35.48	-39.70	35.48	0.19	0.00	-2.03
7,613.00	4.84	271.43	7,603.57	-34.79	-48.21	34.79	0.89	-0.68	-6.39
7,708.00	4.53	269.59	7,698.25	-34.71	-55.97	34.71	0.36	-0.33	-1.94
7,803.00	4.62	272.40	7,792.95	-34.58	-63.55	34.58	0.25	0.09	2.96
7,898.00	4.18	268.36	7,887.67	-34.52	-70.83	34.52	0.57	-0.46	-4.25
7,993.00	4.09	265.81	7,982.43	-34.87	-77.67	34.87	0.22	-0.09	-2.68
8,088.00	3.60	261.24	8,077.21	-35.57	-84.00	35.57	0.61	-0.52	-4.81
8,183.00	3.16	258.78	8,172.05	-36.53	-89.51	36.53	0.49	-0.46	-2.59
8,278.00	3.03	255.35	8,266.91	-37.68	-94.51	37.68	0.24	-0.14	-3.61
8,373.00	2.77	252.18	8,361.79	-39.01	-99.12	39.01	0.32	-0.27	-3.34
8,468.00	2.77	250.87	8,456.67	-40.47	-103.48	40.47	0.07	0.00	-1.38
8,563.00	2.64	251.48	8,551.57	-41.92	-107.72	41.92	0.14	-0.14	0.64
8,658.00	2.42	248.93	8,646.48	-43.33	-111.67	43.33	0.26	-0.23	-2.68
8,753.00	2.33	244.63	8,741.39	-44.88	-115.28	44.88	0.21	-0.09	-4.53
8,848.00	2.37	243.31	8,836.31	-46.59	-118.78	46.59	0.07	0.04	-1.39
8,943.00	2.24	243.22	8,931.24	-48.31	-122.20	48.31	0.14	-0.14	-0.09
9,038.00	1.32	217.38	9,026.19	-50.01	-124.52	50.01	1.26	-0.97	-27.20
9,133.00	2.46	236.19	9,121.14	-52.02	-126.88	52.02	1.35	1.20	19.80
9,228.00	3.16	243.39	9,216.03	-54.33	-130.91	54.33	0.82	0.74	7.58
9,323.00	3.08	258.34	9,310.89	-56.01	-135.75	56.01	0.86	-0.08	15.74



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company: KAISER FRANCIS OIL CO.
Project: LEA COUNTY, N.M. 27
Site: SEC 5-T24S-R34E
Well: BELL LAKE UNIT S. 217H
Wellbore: HORIZONTAL
Design: HORIZONTAL

Local Co-ordinate Reference: Well BELL LAKE UNIT S. 217H
TVD Reference: GE+23.5 @ 3607.40usft (CAC 169)
MD Reference: GE+23.5 @ 3607.40usft (CAC 169)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,418.00	2.81	259.83	9,405.76	-56.94	-140.54	56.94	0.30	-0.28	1.57
9,513.00	2.95	266.33	9,500.64	-57.51	-145.28	57.51	0.37	0.15	6.84
9,608.00	2.51	264.31	9,595.53	-57.87	-149.79	57.87	0.47	-0.46	-2.13
9,703.00	2.33	245.42	9,690.45	-58.88	-153.61	58.88	0.86	-0.19	-19.88
9,798.00	2.24	232.32	9,785.37	-60.82	-156.84	60.82	0.56	-0.09	-13.79
9,893.00	1.58	237.24	9,880.32	-62.66	-159.41	62.66	0.72	-0.69	5.18
9,988.00	1.67	218.87	9,975.28	-64.45	-161.38	64.45	0.55	0.09	-19.34
10,020.00	1.89	218.26	10,007.27	-65.23	-162.00	65.23	0.69	0.69	-1.91
10,114.00	2.07	219.84	10,101.21	-67.75	-164.04	67.75	0.20	0.19	1.68
10,209.00	4.88	207.18	10,196.03	-72.66	-166.99	72.66	3.05	2.96	-13.33
KOP 217H									
10,304.00	15.03	201.38	10,289.48	-87.77	-173.34	87.77	10.72	10.68	-6.11
10,398.00	29.67	193.56	10,376.20	-121.92	-183.30	121.92	15.86	15.57	-8.32
10,493.00	42.99	191.54	10,452.56	-176.77	-195.34	176.77	14.08	14.02	-2.13
10,587.00	51.74	190.48	10,516.17	-244.59	-208.49	244.59	9.35	9.31	-1.13
10,682.00	55.43	182.93	10,572.61	-320.42	-217.29	320.42	7.48	3.88	-7.95
10,777.00	63.03	181.87	10,621.17	-401.92	-220.67	401.92	8.06	8.00	-1.12
10,871.00	77.71	183.19	10,652.67	-490.12	-224.62	490.12	15.67	15.62	1.40
10,884.01	78.40	183.18	10,655.36	-502.83	-225.33	502.83	5.29	5.28	-0.10
FTP 217H									
10,966.00	82.73	183.10	10,668.80	-583.57	-229.75	583.57	5.29	5.28	-0.09
11,061.00	84.00	182.13	10,679.78	-677.83	-234.06	677.83	1.68	1.34	-1.02
11,156.00	84.97	181.26	10,688.91	-772.35	-236.85	772.35	1.37	1.02	-0.92
11,250.00	85.27	179.67	10,696.90	-866.00	-237.61	866.00	1.72	0.32	-1.69
11,345.00	89.49	180.20	10,701.25	-960.88	-237.51	960.88	4.48	4.44	0.56
11,440.00	90.73	178.97	10,701.06	-1,055.87	-236.82	1,055.87	1.84	1.31	-1.29
11,534.00	92.31	177.65	10,698.57	-1,149.80	-234.05	1,149.80	2.19	1.68	-1.40
11,629.00	93.93	177.04	10,693.40	-1,244.55	-229.65	1,244.55	1.82	1.71	-0.64
11,724.00	96.48	177.04	10,684.78	-1,339.02	-224.77	1,339.02	2.68	2.68	0.00
11,819.00	93.19	177.04	10,676.78	-1,433.55	-219.88	1,433.55	3.46	-3.46	0.00
11,914.00	94.37	175.81	10,670.51	-1,528.15	-213.97	1,528.15	1.79	1.24	-1.29
12,009.00	91.43	177.13	10,665.71	-1,622.84	-208.13	1,622.84	3.39	-3.09	1.39
12,104.00	92.79	176.86	10,662.21	-1,717.64	-203.16	1,717.64	1.46	1.43	-0.28
12,199.00	89.71	178.00	10,660.14	-1,812.51	-198.90	1,812.51	3.46	-3.24	1.20
12,294.00	90.95	177.74	10,659.59	-1,907.44	-195.37	1,907.44	1.33	1.31	-0.27
12,388.00	87.56	178.71	10,660.81	-2,001.37	-192.46	2,001.37	3.75	-3.61	1.03
12,483.00	88.18	178.27	10,664.34	-2,096.27	-189.95	2,096.27	0.80	0.65	-0.46
12,578.00	89.89	177.65	10,665.94	-2,191.19	-186.57	2,191.19	1.91	1.80	-0.65
12,673.00	87.16	180.46	10,668.39	-2,286.13	-185.01	2,286.13	4.12	-2.87	2.96
12,768.00	88.22	180.46	10,672.22	-2,381.05	-185.77	2,381.05	1.12	1.12	0.00
12,862.00	89.93	180.46	10,673.73	-2,475.03	-186.52	2,475.03	1.82	1.82	0.00
12,893.00	90.51	180.55	10,673.62	-2,506.03	-186.80	2,506.03	1.89	1.87	0.29
12,988.00	89.27	179.59	10,673.80	-2,601.03	-186.91	2,601.03	1.65	-1.31	-1.01
13,083.00	86.37	180.73	10,677.41	-2,695.95	-187.18	2,695.95	3.28	-3.05	1.20



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company: KAISER FRANCIS OIL CO.
Project: LEA COUNTY, N.M. 27
Site: SEC 5-T24S-R34E
Well: BELL LAKE UNIT S. 217H
Wellbore: HORIZONTAL
Design: HORIZONTAL

Local Co-ordinate Reference: Well BELL LAKE UNIT S. 217H
TVD Reference: GE+23.5 @ 3607.40usft (CAC 169)
MD Reference: GE+23.5 @ 3607.40usft (CAC 169)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,178.00	86.86	180.29	10,683.02	-2,790.78	-188.02	2,790.78	0.69	0.52	-0.46
13,272.00	87.91	179.76	10,687.31	-2,884.68	-188.06	2,884.68	1.25	1.12	-0.56
13,367.00	86.37	179.76	10,692.05	-2,979.55	-187.66	2,979.55	1.62	-1.62	0.00
13,462.00	85.27	179.67	10,698.97	-3,074.30	-187.19	3,074.30	1.16	-1.16	-0.09
13,557.00	85.98	179.15	10,706.22	-3,169.02	-186.22	3,169.02	0.93	0.75	-0.55
13,652.00	86.24	177.83	10,712.67	-3,263.76	-183.72	3,263.76	1.41	0.27	-1.39
13,746.00	85.80	177.21	10,719.19	-3,357.45	-179.66	3,357.45	0.81	-0.47	-0.66
13,841.00	86.24	175.98	10,725.78	-3,452.05	-174.03	3,452.05	1.37	0.46	-1.29
13,936.00	87.34	175.54	10,731.10	-3,546.64	-167.02	3,546.64	1.25	1.16	-0.46
14,031.00	87.87	174.93	10,735.07	-3,641.23	-159.13	3,641.23	0.85	0.56	-0.64
14,126.00	88.66	173.79	10,737.95	-3,735.72	-149.80	3,735.72	1.46	0.83	-1.20
14,221.00	89.76	175.63	10,739.26	-3,830.30	-141.05	3,830.30	2.26	1.16	1.94
14,316.00	90.15	177.48	10,739.34	-3,925.13	-135.34	3,925.13	1.99	0.41	1.95
14,411.00	89.36	179.15	10,739.74	-4,020.08	-132.54	4,020.08	1.94	-0.83	1.76
14,506.00	89.41	181.70	10,740.76	-4,115.06	-133.25	4,115.06	2.68	0.05	2.68
14,601.00	89.71	181.17	10,741.49	-4,210.03	-135.63	4,210.03	0.64	0.32	-0.56
14,696.00	89.58	179.67	10,742.08	-4,305.02	-136.32	4,305.02	1.58	-0.14	-1.58
14,791.00	87.91	181.08	10,744.16	-4,399.99	-136.94	4,399.99	2.30	-1.76	1.48
14,886.00	88.48	181.08	10,747.15	-4,494.93	-138.73	4,494.93	0.60	0.60	0.00
14,981.00	89.54	180.20	10,748.79	-4,589.91	-139.80	4,589.91	1.45	1.12	-0.93
15,076.00	87.69	181.43	10,751.09	-4,684.86	-141.15	4,684.86	2.34	-1.95	1.29
15,172.00	88.75	182.49	10,754.07	-4,780.76	-144.43	4,780.76	1.56	1.10	1.10
15,267.00	89.19	181.78	10,755.78	-4,875.68	-147.97	4,875.68	0.88	0.46	-0.75
15,361.00	89.45	181.17	10,756.90	-4,969.64	-150.39	4,969.64	0.71	0.28	-0.65
15,456.00	89.32	180.64	10,757.92	-5,064.62	-151.89	5,064.62	0.57	-0.14	-0.56
15,551.00	87.60	180.90	10,760.47	-5,159.57	-153.16	5,159.57	1.83	-1.81	0.27
15,646.00	86.11	180.55	10,765.68	-5,254.42	-154.36	5,254.42	1.61	-1.57	-0.37
15,741.00	86.15	179.76	10,772.09	-5,349.20	-154.62	5,349.20	0.83	0.04	-0.83
15,836.00	87.21	179.59	10,777.59	-5,444.04	-154.08	5,444.04	1.13	1.12	-0.18
15,931.00	85.27	179.94	10,783.82	-5,538.83	-153.69	5,538.83	2.07	-2.04	0.37
16,026.00	83.60	178.71	10,793.04	-5,633.37	-152.58	5,633.37	2.18	-1.76	-1.29
16,121.00	83.56	178.44	10,803.66	-5,727.74	-150.23	5,727.74	0.29	-0.04	-0.28
16,216.00	83.74	177.83	10,814.17	-5,822.11	-147.16	5,822.11	0.67	0.19	-0.64
16,311.00	85.01	178.71	10,823.48	-5,916.61	-144.31	5,916.61	1.62	1.34	0.93
16,406.00	86.73	179.06	10,830.32	-6,011.34	-142.46	6,011.34	1.85	1.81	0.37
16,501.00	88.92	179.06	10,833.92	-6,106.25	-140.90	6,106.25	2.31	2.31	0.00
16,596.00	89.85	178.62	10,834.94	-6,201.23	-138.98	6,201.23	1.08	0.98	-0.46
16,691.00	91.47	180.29	10,833.85	-6,296.21	-138.08	6,296.21	2.45	1.71	1.76
16,786.00	90.46	180.38	10,832.25	-6,391.19	-138.63	6,391.19	1.07	-1.06	0.09
16,881.00	88.09	179.41	10,833.45	-6,486.18	-138.46	6,486.18	2.70	-2.49	-1.02
16,976.00	87.74	178.62	10,836.91	-6,581.10	-136.83	6,581.10	0.91	-0.37	-0.83
17,071.00	87.30	178.97	10,841.02	-6,675.99	-134.83	6,675.99	0.59	-0.46	0.37
17,166.00	86.95	178.97	10,845.78	-6,770.85	-133.13	6,770.85	0.37	-0.37	0.00



SB Directional Services
Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT S. 217H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23.5 @ 3607.40usft (CAC 169)
Site:	SEC 5-T24S-R34E	MD Reference:	GE+23.5 @ 3607.40usft (CAC 169)
Well:	BELL LAKE UNIT S. 217H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

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)
17,261.00	87.82	179.32	10,850.12	-6,865.74	-131.71	6,865.74	0.99	0.92	0.37
17,356.00	89.23	179.23	10,852.56	-6,960.70	-130.51	6,960.70	1.49	1.48	-0.09
17,451.00	89.89	178.44	10,853.29	-7,055.68	-128.58	7,055.68	1.08	0.69	-0.83
17,546.00	90.86	177.83	10,852.67	-7,150.62	-125.49	7,150.62	1.21	1.02	-0.64
17,641.00	90.20	179.23	10,851.79	-7,245.59	-123.05	7,245.59	1.63	-0.69	1.47
17,736.00	90.95	179.94	10,850.84	-7,340.58	-122.36	7,340.58	1.09	0.79	0.75
17,831.00	88.62	179.94	10,851.19	-7,435.57	-122.26	7,435.57	2.45	-2.45	0.00
17,926.00	88.26	179.94	10,853.78	-7,530.54	-122.16	7,530.54	0.38	-0.38	0.00
18,021.00	88.62	179.59	10,856.37	-7,625.50	-121.77	7,625.50	0.53	0.38	-0.37
18,116.00	88.84	178.97	10,858.47	-7,720.47	-120.58	7,720.47	0.69	0.23	-0.65
18,211.00	88.84	177.83	10,860.40	-7,815.41	-117.93	7,815.41	1.20	0.00	-1.20
18,306.00	89.45	178.80	10,861.81	-7,910.36	-115.13	7,910.36	1.21	0.64	1.02
18,401.00	89.58	180.38	10,862.62	-8,005.35	-114.45	8,005.35	1.67	0.14	1.66
18,496.00	90.90	179.59	10,862.22	-8,100.34	-114.43	8,100.34	1.62	1.39	-0.83
18,591.00	91.56	179.23	10,860.18	-8,195.32	-113.45	8,195.32	0.79	0.69	-0.38
LS 18591.00' MD & 10860.18' TVD - PBHL 217H									
18,648.00	91.56	179.23	10,858.63	-8,252.29	-112.68	8,252.29	0.00	0.00	0.00
PTB 18648.00' MD & 10858.63' TVD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,591.00	10,860.18	-8,195.32	-113.45	LS 18591.00' MD & 10860.18' TVD
18,648.00	10,858.63	-8,252.29	-112.68	PTB 18648.00' MD & 10858.63' TVD

Checked By: _____ Approved By: _____ Date: _____



Survey Report

Service Company: SB Directional

Location: SEC 5-T24S-R34E

Well: Bell Lake Unit S 218H

Rig: Cactus 170

API or UWI: 30-025-46593

Job Number: 321382

State: NM

Operating Company: Kaiser Francis

County: Lea

Magnetic Declination: 0.00

Country: USA

Proposed Azimuth: 180.00

Comment

North Reference: GRID

Latitude: 32.24783

Longitude: -103.48412

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
133.00	0.88	280.40	132.99	0.18	-1.00	280.40	1.02	-0.18	0.66
230.00	0.40	286.11	229.99	0.41	-2.06	281.32	2.10	-0.41	0.50
322.00	0.57	308.61	321.99	0.79	-2.73	286.10	2.84	-0.79	0.27
412.00	0.97	295.51	411.98	1.39	-3.77	290.32	4.02	-1.39	0.48
503.00	1.10	288.75	502.96	2.01	-5.29	290.79	5.66	-2.01	0.20
594.00	0.57	294.37	593.95	2.47	-6.53	290.76	6.98	-2.47	0.59
684.00	0.66	347.02	683.95	3.16	-7.05	294.17	7.73	-3.16	0.61
776.00	0.40	353.08	775.94	4.00	-7.21	299.02	8.24	-4.00	0.29
866.00	0.79	341.83	865.94	4.90	-7.44	303.37	8.91	-4.90	0.45
958.00	0.79	357.30	957.93	6.14	-7.67	308.67	9.82	-6.14	0.23
1049.00	0.92	29.29	1048.92	7.40	-7.34	315.24	10.42	-7.40	0.54
1140.00	1.19	29.03	1139.90	8.86	-6.52	323.65	11.01	-8.86	0.30
1177.00	1.27	29.38	1176.90	9.56	-6.14	327.30	11.36	-9.56	0.22
1242.00	1.27	34.30	1241.88	10.78	-5.38	333.49	12.05	-10.78	0.17
1337.00	1.49	6.79	1336.85	12.88	-4.64	340.19	13.69	-12.88	0.73
1432.00	1.80	354.31	1431.81	15.59	-4.64	343.42	16.26	-15.59	0.50

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1527.00	1.41	336.73	1526.78	18.15	-5.25	343.86	18.89	-18.15	0.66
1622.00	1.19	264.49	1621.76	19.13	-6.69	340.71	20.26	-19.13	1.62
1717.00	2.90	230.12	1716.70	17.49	-9.52	331.44	19.91	-17.49	2.14
1812.00	4.40	233.02	1811.50	13.76	-14.28	313.94	19.83	-13.76	1.59
1907.00	4.57	230.83	1906.21	9.17	-20.12	294.51	22.11	-9.17	0.25
2001.00	5.71	218.79	1999.83	3.16	-25.95	276.95	26.15	-3.16	1.66
2096.00	5.54	219.49	2094.38	-4.06	-31.83	262.73	32.09	4.06	0.19
2191.00	5.10	219.58	2188.97	-10.85	-37.44	253.83	38.98	10.85	0.46
2286.00	4.88	221.77	2283.61	-17.12	-42.82	248.21	46.12	17.12	0.31
2381.00	4.84	219.66	2378.27	-23.22	-48.07	244.22	53.38	23.22	0.19
2476.00	5.27	219.22	2472.90	-29.69	-53.39	240.92	61.08	29.69	0.45
2571.00	4.79	219.31	2567.53	-36.13	-58.66	238.37	68.89	36.13	0.51
2666.00	4.48	217.91	2662.22	-42.13	-63.45	236.42	76.16	42.13	0.35
2761.00	4.48	213.60	2756.93	-48.15	-67.78	234.61	83.14	48.15	0.35
2855.00	4.84	212.46	2850.62	-54.55	-71.94	232.83	90.29	54.55	0.40
2950.00	4.31	209.64	2945.32	-61.04	-75.86	231.18	97.37	61.04	0.61
3045.00	4.79	214.83	3040.02	-67.39	-79.89	229.85	104.52	67.39	0.67
3140.00	6.90	220.10	3134.52	-75.02	-85.83	228.85	113.99	75.02	2.29
3235.00	6.20	220.81	3228.90	-83.26	-92.86	228.12	124.72	83.26	0.74
3330.00	5.80	222.48	3323.38	-90.69	-99.45	227.64	134.59	90.69	0.46
3424.00	5.19	220.28	3416.94	-97.43	-105.41	227.25	143.54	97.43	0.69
3519.00	4.92	222.83	3511.58	-103.70	-110.96	226.94	151.87	103.70	0.37
3614.00	4.75	223.09	3606.24	-109.56	-116.42	226.74	159.86	109.56	0.18
3709.00	4.97	222.13	3700.90	-115.48	-121.86	226.54	167.89	115.48	0.25
3804.00	5.89	222.92	3795.47	-122.11	-127.94	226.34	176.86	122.11	0.97
3899.00	5.27	219.49	3890.02	-129.04	-134.04	226.09	186.06	129.04	0.74
3993.00	5.14	218.87	3983.63	-135.65	-139.42	225.79	194.53	135.65	0.15
4088.00	4.88	217.91	4078.27	-142.15	-144.58	225.48	202.76	142.15	0.29
4183.00	4.35	212.98	4172.96	-148.36	-149.02	225.13	210.28	148.36	0.70
4278.00	4.35	205.87	4267.69	-154.63	-152.56	224.61	217.22	154.63	0.57
4373.00	4.92	206.39	4362.38	-161.52	-155.94	223.99	224.51	161.52	0.60
4468.00	4.35	200.59	4457.06	-168.54	-159.02	223.33	231.72	168.54	0.78
4562.00	4.13	195.23	4550.81	-175.14	-161.16	222.62	238.01	175.14	0.48
4657.00	4.09	184.42	4645.56	-181.82	-162.32	221.76	243.74	181.82	0.82
4752.00	3.87	168.34	4740.34	-188.34	-161.93	220.69	248.38	188.34	1.19
4847.00	3.82	155.50	4835.13	-194.36	-159.97	219.46	251.73	194.36	0.91
4942.00	3.60	154.27	4929.93	-199.93	-157.36	218.21	254.43	199.93	0.25

DigiDrill DataLogger

2/6

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5005.00	3.38	147.51	4992.81	-203.28	-155.51	217.42	255.94	203.28	0.74
5126.00	3.25	144.52	5113.61	-209.08	-151.60	215.95	258.26	209.08	0.18
5220.00	3.21	144.52	5207.46	-213.39	-148.53	214.84	259.99	213.39	0.04
5315.00	2.90	147.07	5302.32	-217.57	-145.68	213.80	261.84	217.57	0.36
5410.00	0.40	31.75	5397.29	-219.31	-144.20	213.32	262.47	219.31	3.26
5505.00	0.44	73.33	5492.28	-218.92	-143.67	213.28	261.86	218.92	0.32
5600.00	0.18	323.11	5587.28	-218.70	-143.41	213.25	261.53	218.70	0.56
5695.00	0.84	264.66	5682.28	-218.64	-144.19	213.40	261.91	218.64	0.80
5790.00	0.79	280.40	5777.27	-218.59	-145.53	213.65	262.60	218.59	0.24
5884.00	0.84	283.82	5871.26	-218.31	-146.84	213.93	263.10	218.31	0.07
5979.00	0.84	284.35	5966.25	-217.97	-148.19	214.21	263.57	217.97	0.01
6074.00	0.92	281.45	6061.24	-217.65	-149.61	214.51	264.11	217.65	0.10
6169.00	0.70	264.66	6156.23	-217.55	-150.94	214.75	264.78	217.55	0.34
6264.00	0.66	265.72	6251.22	-217.64	-152.06	214.94	265.50	217.64	0.04
6359.00	0.66	274.16	6346.22	-217.64	-153.15	215.13	266.13	217.64	0.10
6454.00	0.92	279.43	6441.21	-217.48	-154.45	215.38	266.74	217.48	0.28
6548.00	0.92	261.06	6535.19	-217.47	-155.94	215.64	267.60	217.47	0.31
6643.00	0.92	263.61	6630.18	-217.68	-157.45	215.88	268.65	217.68	0.04
6738.00	0.79	281.98	6725.17	-217.63	-158.85	216.13	269.43	217.63	0.32
6833.00	1.05	274.60	6820.16	-217.42	-160.36	216.41	270.16	217.42	0.30
6928.00	0.97	274.60	6915.14	-217.29	-162.03	216.71	271.05	217.29	0.08
7023.00	0.84	253.59	7010.13	-217.42	-163.50	216.94	272.03	217.42	0.37
7118.00	0.66	232.50	7105.12	-217.95	-164.60	217.06	273.12	217.95	0.34
7213.00	0.88	232.76	7200.12	-218.72	-165.61	217.13	274.35	218.72	0.23
7307.00	1.05	236.63	7294.10	-219.63	-166.91	217.23	275.86	219.63	0.19
7402.00	0.97	231.62	7389.09	-220.61	-168.26	217.33	277.46	220.61	0.13
7497.00	1.27	232.14	7484.07	-221.76	-169.73	217.43	279.25	221.76	0.32
7592.00	1.41	219.84	7579.04	-223.30	-171.31	217.49	281.44	223.30	0.34
7687.00	1.49	230.83	7674.01	-224.98	-173.01	217.56	283.81	224.98	0.30
7781.00	1.49	257.28	7767.98	-226.02	-175.15	217.77	285.94	226.02	0.73
7876.00	1.54	251.48	7862.95	-226.70	-177.57	218.07	287.96	226.70	0.17
7971.00	1.58	239.79	7957.91	-227.76	-179.91	218.31	290.24	227.76	0.34
8066.00	1.76	252.36	8052.87	-228.86	-182.43	218.56	292.68	228.86	0.43
8161.00	1.80	270.38	8147.83	-229.29	-185.31	218.95	294.82	229.29	0.59
8256.00	1.85	263.17	8242.78	-229.47	-188.33	219.38	296.85	229.47	0.25
8350.00	1.63	258.60	8336.74	-229.91	-191.15	219.74	298.99	229.91	0.28
8445.00	1.63	251.83	8431.70	-230.60	-193.75	220.04	301.19	230.60	0.20

DigiDrill DataLogger

3/6

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8540.00	1.19	243.83	8526.67	-231.46	-195.92	220.25	303.24	231.46	0.51
8635.00	1.89	270.82	8621.64	-231.87	-198.38	220.55	305.15	231.87	1.04
8730.00	2.46	297.97	8716.57	-230.89	-201.74	221.15	306.61	230.89	1.22
8824.00	1.85	300.17	8810.50	-229.18	-204.84	221.79	307.38	229.18	0.65
8919.00	1.27	291.91	8905.47	-228.02	-207.14	222.25	308.06	228.02	0.65
9014.00	0.84	292.35	9000.45	-227.36	-208.76	222.56	308.66	227.36	0.45
9109.00	0.35	267.83	9095.45	-227.11	-209.69	222.72	309.11	227.11	0.57
9203.00	0.48	132.56	9189.45	-227.38	-209.69	222.68	309.31	227.38	0.82
9298.00	1.36	103.30	9284.43	-227.91	-208.30	222.43	308.76	227.91	1.02
9393.00	1.58	133.71	9379.40	-229.08	-206.26	222.00	308.25	229.08	0.84
9488.00	1.36	145.66	9474.37	-230.91	-204.67	221.55	308.56	230.91	0.40
9583.00	0.40	235.13	9569.36	-232.03	-204.31	221.36	309.16	232.03	1.49
9678.00	1.45	167.11	9664.35	-233.39	-204.31	221.20	310.19	233.39	1.42
9773.00	1.85	173.26	9759.31	-236.09	-203.86	220.81	311.93	236.09	0.46
9867.00	1.41	206.57	9853.27	-238.63	-204.20	220.55	314.08	238.63	1.09
9962.00	1.19	231.62	9948.25	-240.29	-205.50	220.54	316.18	240.29	0.64
10057.00	1.10	216.76	10043.23	-241.63	-206.82	220.56	318.06	241.63	0.33
10152.00	1.36	233.11	10138.21	-243.04	-208.27	220.59	320.07	243.04	0.46
10198.00	1.36	221.77	10184.20	-243.77	-209.07	220.62	321.14	243.77	0.58
10293.00	2.11	209.03	10279.15	-246.14	-210.67	220.56	323.99	246.14	0.88
10388.00	16.88	178.53	10372.62	-261.55	-211.16	218.92	336.15	261.55	15.89
10483.00	30.15	179.06	10459.53	-299.36	-210.42	215.10	365.91	299.36	13.97
10578.00	40.26	176.07	10537.06	-353.99	-207.91	210.43	410.53	353.99	10.79
10673.00	50.95	175.10	10603.43	-421.56	-202.64	205.67	467.74	421.56	11.28
10768.00	70.02	179.59	10650.03	-503.75	-199.14	201.57	541.68	503.75	20.48
10863.00	86.24	180.73	10669.51	-596.40	-199.43	198.49	628.86	596.40	17.11
10958.00	87.91	180.29	10674.36	-691.27	-200.27	196.16	719.70	691.27	1.82
11053.00	89.05	179.94	10676.88	-786.24	-200.46	194.30	811.39	786.24	1.26
11148.00	90.51	179.50	10677.24	-881.23	-200.00	192.79	903.64	881.23	1.61
11243.00	87.96	177.65	10678.51	-976.18	-197.63	191.45	995.99	976.18	3.32
11338.00	86.11	177.30	10683.42	-1070.96	-193.46	190.24	1088.29	1070.96	1.98
11432.00	87.21	176.33	10688.90	-1164.65	-188.24	189.18	1179.77	1164.65	1.56
11527.00	86.11	174.66	10694.43	-1259.19	-180.79	188.17	1272.10	1259.19	2.10
11622.00	86.73	174.22	10700.37	-1353.56	-171.61	187.23	1364.39	1353.56	0.80
11717.00	88.40	173.79	10704.40	-1447.95	-161.69	186.37	1456.95	1447.95	1.82
11811.00	89.80	172.38	10705.88	-1541.25	-150.38	185.57	1548.57	1541.25	2.11
11906.00	91.16	171.50	10705.08	-1635.31	-137.06	184.79	1641.04	1635.31	1.71

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
12001.00	90.33	171.32	10703.85	-1729.23	-122.87	184.06	1733.59	1729.23	0.89
12095.00	91.60	170.88	10702.27	-1822.08	-108.33	183.40	1825.30	1822.08	1.43
12190.00	90.81	172.55	10700.27	-1916.07	-94.65	182.83	1918.40	1916.07	1.94
12285.00	91.87	172.03	10698.05	-2010.18	-81.90	182.33	2011.85	2010.18	1.24
12380.00	91.56	174.93	10695.20	-2104.51	-71.12	181.94	2105.72	2104.51	3.07
12475.00	92.40	174.84	10691.92	-2199.08	-62.66	181.63	2199.97	2199.08	0.89
12570.00	94.24	174.22	10686.42	-2293.48	-53.62	181.34	2294.11	2293.48	2.04
12665.00	94.37	176.33	10679.29	-2387.89	-45.82	181.10	2388.33	2387.89	2.22
12759.00	95.43	176.86	10671.26	-2481.38	-40.25	180.93	2481.70	2481.38	1.26
12854.00	91.96	178.53	10665.14	-2576.09	-36.44	180.81	2576.34	2576.09	4.05
12949.00	93.32	178.27	10660.76	-2670.95	-33.79	180.72	2671.16	2670.95	1.46
13044.00	92.26	177.30	10656.14	-2765.76	-30.13	180.62	2765.92	2765.76	1.51
13139.00	92.92	177.48	10651.84	-2860.56	-25.80	180.52	2860.68	2860.56	0.72
13234.00	93.10	180.38	10646.85	-2955.41	-24.03	180.47	2955.50	2955.41	3.05
13372.00	94.95	180.73	10637.17	-3093.05	-25.37	180.47	3093.16	3093.05	1.36
13467.00	93.98	180.20	10629.77	-3187.76	-26.13	180.47	3187.87	3187.76	1.16
13562.00	88.40	183.37	10627.80	-3282.64	-29.09	180.51	3282.77	3282.64	6.75
13657.00	87.91	184.07	10630.86	-3377.39	-35.25	180.60	3377.58	3377.39	0.90
13751.00	86.95	183.80	10635.07	-3471.08	-41.70	180.69	3471.33	3471.08	1.06
13846.00	85.19	183.98	10641.58	-3565.63	-48.13	180.77	3565.96	3565.63	1.86
13941.00	83.96	183.19	10650.56	-3660.02	-54.04	180.85	3660.42	3660.02	1.54
14036.00	84.22	183.80	10660.35	-3754.34	-59.80	180.91	3754.81	3754.34	0.69
14131.00	83.12	183.80	10670.82	-3848.55	-66.06	180.98	3849.11	3848.55	1.16
14226.00	83.47	179.67	10681.92	-3942.83	-68.92	181.00	3943.44	3942.83	4.33
14321.00	84.00	178.36	10692.28	-4037.25	-67.29	180.95	4037.81	4037.25	1.48
14416.00	85.63	178.27	10700.87	-4131.82	-64.51	180.89	4132.32	4131.82	1.72
14511.00	88.35	178.36	10705.86	-4226.64	-61.72	180.84	4227.09	4226.64	2.86
14605.00	89.67	178.36	10707.48	-4320.58	-59.03	180.78	4320.98	4320.58	1.40
14700.00	89.93	178.18	10707.81	-4415.54	-56.16	180.73	4415.89	4415.54	0.33
14795.00	90.42	178.36	10707.52	-4510.49	-53.29	180.68	4510.81	4510.49	0.55
14890.00	88.22	178.09	10708.65	-4605.44	-50.35	180.63	4605.71	4605.44	2.33
14985.00	89.45	178.53	10710.58	-4700.37	-47.55	180.58	4700.61	4700.37	1.38
15080.00	87.69	178.62	10712.95	-4795.31	-45.19	180.54	4795.52	4795.31	1.86
15175.00	85.98	177.83	10718.20	-4890.11	-42.25	180.50	4890.30	4890.11	1.98
15270.00	86.37	177.30	10724.53	-4984.82	-38.22	180.44	4984.96	4984.82	0.69
15365.00	87.21	177.30	10729.85	-5079.56	-33.76	180.38	5079.67	5079.56	0.88
15459.00	87.43	177.13	10734.25	-5173.35	-29.19	180.32	5173.43	5173.35	0.30

DigiDrill DataLogger

5/6

www.digidrill.com

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
15554.00	88.40	177.83	10737.71	-5268.19	-25.02	180.27	5268.25	5268.19	1.26
15649.00	87.03	178.00	10741.49	-5363.05	-21.57	180.23	5363.09	5363.05	1.45
15744.00	87.34	178.62	10746.16	-5457.89	-18.77	180.20	5457.93	5457.89	0.73
15839.00	85.71	178.62	10751.92	-5552.69	-16.49	180.17	5552.71	5552.69	1.72
15933.00	86.42	178.71	10758.37	-5646.44	-14.30	180.15	5646.46	5646.44	0.76
16028.00	86.81	178.44	10763.98	-5741.25	-11.94	180.12	5741.26	5741.25	0.50
16123.00	86.68	177.21	10769.37	-5836.02	-8.34	180.08	5836.03	5836.02	1.30
16218.00	86.81	177.39	10774.77	-5930.76	-3.87	180.04	5930.77	5930.76	0.23
16313.00	87.69	177.48	10779.32	-6025.56	0.37	180.00	6025.56	6025.56	0.93
16408.00	88.18	177.13	10782.75	-6120.39	4.84	179.95	6120.39	6120.39	0.63
16502.00	88.84	176.16	10785.19	-6214.20	10.34	179.90	6214.21	6214.20	1.25
16597.00	88.31	177.56	10787.55	-6309.02	15.54	179.86	6309.04	6309.02	1.58
16692.00	87.91	179.94	10790.69	-6403.94	17.61	179.84	6403.97	6403.94	2.54
16787.00	88.09	179.94	10794.00	-6498.88	17.71	179.84	6498.91	6498.88	0.19
16882.00	89.45	180.29	10796.04	-6593.86	17.52	179.85	6593.88	6593.86	1.48
16977.00	86.68	179.94	10799.25	-6688.79	17.33	179.85	6688.82	6688.79	2.94
17071.00	85.67	178.88	10805.52	-6782.58	18.29	179.85	6782.60	6782.58	1.56
17166.00	86.29	178.71	10812.18	-6877.32	20.28	179.83	6877.35	6877.32	0.68
17261.00	86.73	178.44	10817.96	-6972.12	22.64	179.81	6972.15	6972.12	0.54
17356.00	87.16	177.74	10823.03	-7066.93	25.80	179.79	7066.98	7066.93	0.86
17451.00	87.25	177.13	10827.66	-7161.72	30.05	179.76	7161.78	7161.72	0.65
17545.00	87.30	178.09	10832.13	-7255.53	33.97	179.73	7255.61	7255.53	1.02
17640.00	87.43	181.61	10836.50	-7350.42	34.21	179.73	7350.49	7350.42	3.70
17735.00	87.60	182.57	10840.62	-7445.26	30.75	179.76	7445.32	7445.26	1.03
17830.00	87.47	182.40	10844.70	-7540.08	26.64	179.80	7540.13	7540.08	0.23
17925.00	87.47	182.13	10848.89	-7634.92	22.89	179.83	7634.95	7634.92	0.28
18019.00	88.22	182.05	10852.43	-7728.79	19.46	179.86	7728.81	7728.79	0.80
18114.00	88.97	181.78	10854.76	-7823.71	16.29	179.88	7823.72	7823.71	0.84
18209.00	89.49	180.90	10856.04	-7918.67	14.07	179.90	7918.68	7918.67	1.08
18304.00	90.02	181.26	10856.44	-8013.65	12.28	179.91	8013.66	8013.65	0.67
18399.00	90.55	181.34	10855.97	-8108.63	10.12	179.93	8108.63	8108.63	0.56
18494.00	91.03	181.70	10854.66	-8203.58	7.60	179.95	8203.59	8203.58	0.63
18576.00	91.21	181.87	10853.06	-8285.53	5.05	179.97	8285.53	8285.53	0.30

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
18640.00	91.21	181.87	10851.71	-8349.48	2.96	179.98	8349.48	8349.48	0.00

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

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

Case Nos. 23211 - 23212

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 applications filed herein.
4. Notice of the application was provided to the interest owner, at its last known address, by certified mail. Copies of the notice letter and certified return receipt 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: 11/29/22


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

November 10, 2022

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

MRC Permian Company
Suite 1500
5400 LBJ Freeway
Dallas, Texas 75240

Attention: Kyle Perkins

Ladies and gentlemen:

Enclosed are copies of two applications for compulsory pooling, filed with the New Mexico Oil Conservation Division by Kaiser-Francis Oil Company, seeking the following:

Case No. 23211: Kaiser-Francis Oil Company seeks an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the SE/4 of Section 5 and the E/2 of Section 8, Township 24 South, Range 34 East, N.M.P.M. The unit will be dedicated to (a) The Bell Lake Unit South Well No. 217H, with a first take point in the NW/4SE/4 of Section 5 and a last take point in the SW/4SE/4 of Section 8; and (b) The Bell Lake Unit South Well No. 218H, with a first take point in the NE/4SE/4 of Section 5 and a last take point in the SE/4SE/4 of Section 8; and

:

Case No. 213212: Kaiser-Francis Oil Company seeks an order pooling all uncommitted mineral interest owners in the Wolfcamp formation underlying a horizontal spacing unit comprised of the SE/4 of Section 5 and the E/2 of Section 8, Township 24 South, Range 34 East, N.M.P.M. The unit will be dedicated to (a) The Bell Lake Unit South Well No. 417H, with a first take point in the NW/4SE/4 of Section 5 and a last take point in the SW/4SE/4 of Section 8; and (b) The Bell Lake Unit South Well No. 418H, with a first take point in the NE/4SE/4 of Section 5 and a last take point in the SE/4SE/4 of Section 8.

ATTACHMENT

A

These matters are scheduled for hearing at 8:15 a.m. on Thursday, December 1, 2022. During the current circumstances, state buildings are closed to the public and the hearing will be conducted remotely. To view the hearing docket and to determine how to participate in an electronic hearing, go to <https://www.emnrd.nm.gov/ocd/hearing-info/>, or contact Marlene Salvidrez at Marlene.Salvidrez@emnrd.nm.gov. 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@emnrd.nm.gov, 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,



James Bruce

Attorney for Kaiser-Francis Oil Company

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only


For delivery information, visit our website at www.usps.com®

OFFICIAL USE

7022 1670 0002 1183 0435

Certified Mail Fee \$ _____ Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ _____ <input type="checkbox"/> Return Receipt (electronic) \$ _____ <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____ <input type="checkbox"/> Adult Signature Required \$ _____ <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____ Postage \$ _____ Total Postage and Fees \$ _____ Sent To MRC Permian Company Suite 1500 5400 LBJ Freeway Dallas, Texas 75240 Street and Apt. No., or PO Box No. _____ City, State, ZIP+4® _____	Postmark Here
---	------------------

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

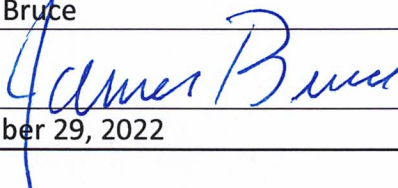
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY										
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Article Addressed to:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> MRC Permian Company Suite 1500 5400 LBJ Freeway Dallas, Texas 75240 </div> <div style="text-align: center; margin: 10px 0;">  9590 9402 7635 2122 8554 66 </div> <p>2. Article Number (Transit)</p> <p style="font-size: 1.2em; font-weight: bold;">7022 1670 0002 1183 0435</p>	<p>A. Signature</p> <p style="font-size: 1.5em; font-weight: bold;">X</p> <p style="text-align: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</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>3. Service Type</p> <table style="width: 100%; border: none;"> <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> </table> <p>4. Restricted Delivery (over \$500)</p>	<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"/> 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										
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:	23211
Date	December 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, Lea County, New Mexico
Entries of Appearance/Intervenors:	MRC Permian Company/Holland & Hart LLP
Well Family	Bell Lake Unit-South Block 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:	Bell Lake; Bone Spring, South/Pool Code 98264
Well Location Setback Rules:	Stpecial rules and current horizontal well rules
Spacing Unit Size:	480 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	480 acres
Building Blocks:	480 acres
Orientation:	North-South
Description: TRS/County	SE/4 §5 and E/2 §8-24S-34E, NMPM, Lea 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	
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Bell Lake Unit-South Block Well No. 217H API No. 30-025-46592 SHL: 2256 FNL & 1374 FEL §5 BHL: 71 FSL & 1566 FEL §8 FTP: 2540 FSL 1605 FEL §5 LTP: 100 FSL & 1605 FEL §8 Bone Spring/TVD 10730 feet/MD 18500 feet

EXHIBIT 5

	Bell Lake Unit-South Block Well No. 218H API No. 30-025-46593 SHL: 2167 FNL & 339 FEL §5 BHL: 82 FSL & 417 FEL §8 FTP: 2540 FSL & 380 FEL §5 LTP: 100 FSL & 380 FEL Bone Spring/TVD 10730 feet/MD 18500 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 necessary
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibits 2-A and 2-B
Tract List (including lease numbers and owners)	Exhibits 2-A and 2-C
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.e. 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)	Exhibit 3
Spacing Unit Schematic	Exhibit 2-B
Gunbarrel/Lateral Trajectory Schematic	Exhibit 2
Well Orientation (with rationale)	Standup/Exhibit 3

Target Formation	Bone Spring
HSU Cross Section	Exhibit 3-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)	Exhibit 2-A
Well Bore Location Map	Exhibit 2-B
Structure Contour Map - Subsea Depth	Exhibit 3-A
Cross Section Location Map (including wells)	Exhibit 3-C
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:	November 29, 2022