

Submit 1 Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-025-48520
2. Name of Operator Kaiser-Francis Oil Company		5. Indicate Type of Lease STATE ☐ FEE ☐ FED ☐
3. Address of Operator P.O. Box 21468, Tulsa, OK 74121		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>G</u> : <u>1,975</u> feet from the <u>North</u> line and <u>1,985</u> feet from the <u>East</u> line Section <u>6</u> Township <u>23S</u> Range <u>34E</u> NMPM County <u>Lea</u>		7. Lease Name or Unit Agreement Name Bell Lake Unit North
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3462' GR		8. Well Number 410H
9. OGRID Number 12361		10. Pool name or Wildcat Ojo Chiso; Wolfcamp, Southwest

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: POOL NAME CHANGE ☒
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

KFOC requests the pool code and name for the Bell Lake Unit North 404H updated to 98265; Ojo Chiso; Wolfcamp, Southwest.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Christina Opfer* TITLE Regulatory Manager DATE 12/13/2022
 Type or print name Christina Opfer E-mail address ChristinaO@kfoc.net PHONE 918-491-4468

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

District I
1625 N. French Dr., Hobbs, NM 88240
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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 30-025-48520	² Pool Code 98265	³ Pool Name Ojo Chiso; Wolfcamp, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	⁶ Well Number 410H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3462.3

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	6	23 S	34 E		1975	NORTH	1985	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	7	23 S	34 E		100	SOUTH	2290	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14602
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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 12/13/22 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. DECEMBER 19, 2019 Date of Survey Signature and Seal of Professional Surveyor Certificate Number: 12797 J. F. JARAMILLO, PLS 12797 PROFESSIONAL SURVEYOR NO. 7649A
--	---

Intent ☒ As Drilled ☐

API # 30-025-48520		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

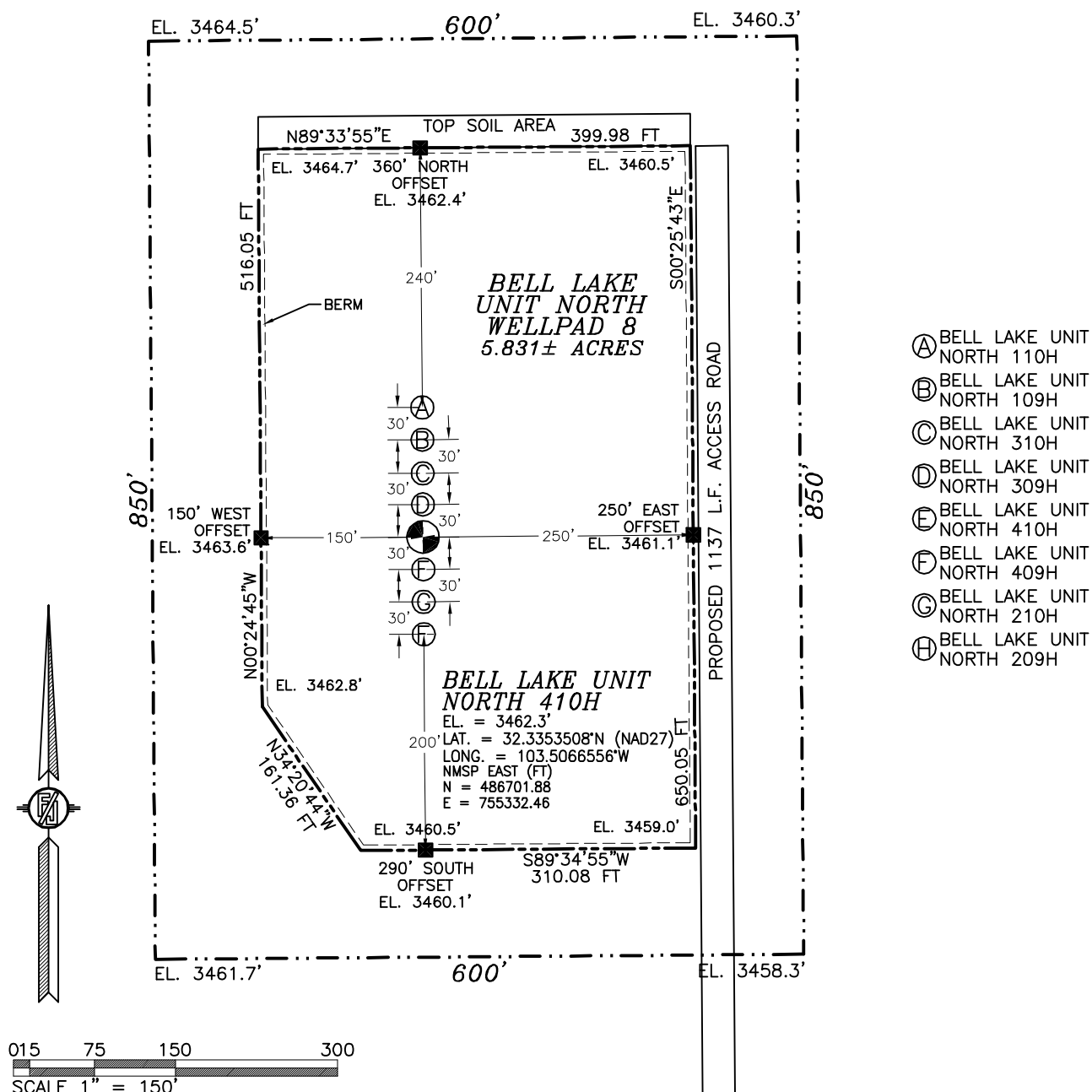
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-48489		
Operator Name:	Property Name:	Well Number
Kaiser-Francis Oil Company	Bell Lake Unit North	412H

KZ 06/29/2018

**SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP**



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 128 & DELAWARE BASIN RD. GO NORTH ON DELAWARE BASIN RD. APPROX. 8.1 MILES WHERE ROAD CURVES RIGHT (EAST) AT THE END OF CURVE THE SECOND LEASE ROAD KAISER-FRANCIS SIGNS ON LEFT (NORTH), TURN LEFT (NORTH) ON LEASE ROAD, GO NORTH APPROX. 0.4 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 0.25 MILES TO A ROAD LATH WITH RED & WHITE FLAGGING, FOLLOW ROAD LATHS NORTH APPROX. 500' TO THE SOUTHEAST CORNER FOR THIS LOCATION.

I, FILIMON F. JARMILL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE KNOWLEDGE AND SKILLS OF THE SURVEYOR, AND THAT I HAVE MET THE MINIMUM STANDARDS FOR THIS SURVEY.

FILIMON F. JARMILL, 1278

MADISON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

DECEMBER 19, 2019

SURVEY NO. 7649A

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals & Natural Resources Department
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Form C-102
Revised August 1, 2011
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☒ AMENDED REPORT

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⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3462.3

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¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14602
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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 12/13/22 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. DECEMBER 19, 2019 Date of Survey Signature and Seal of Professional Surveyor Certificate Number: 12797 E. JARAMILLO, PLS 12797 NO. 7649A
--	--

Intent ☒ As Drilled ☐

API # 30-025-48520		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: BELL LAKE UNIT NORTH	Well Number 410H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL J	Section 6	Township 23S	Range 34E	Lot	Feet 2600	From N/S SOUTH	Feet 2200	From E/W EAST	County LEA
Latitude 32.3335320					Longitude 103.5078328				NAD 83

Last Take Point (LTP)

UL O	Section 7	Township 23S	Range 34E	Lot	Feet 100	From N/S SOUTH	Feet 2290	From E/W EAST	County
Latitude 32.3121545					Longitude 103.5080921				NAD 83

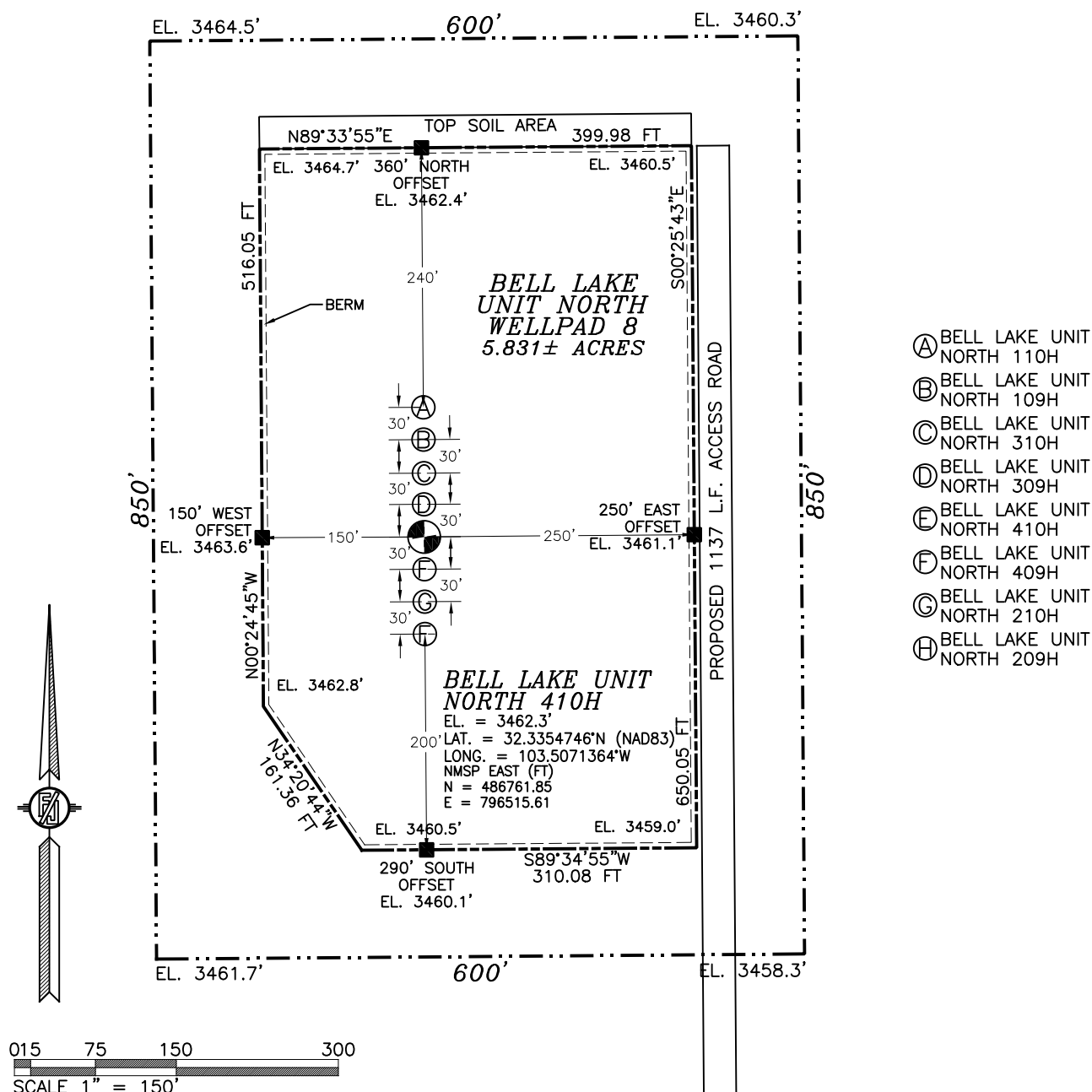
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-48489		
Operator Name: Kaiser-Francis Oil Company	Property Name: Bell Lake Unit North	Well Number 412H

KZ 06/29/2018

**SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP**



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 128 & DELAWARE BASIN RD. GO NORTH ON DELAWARE BASIN RD. APPROX. 8.1 MILES WHERE ROAD CURVES RIGHT (EAST) AT THE END OF CURVE THE SECOND LEASE ROAD KAISER-FRANCIS SIGNS ON LEFT (NORTH), TURN LEFT (NORTH) ON LEASE ROAD, GO NORTH APPROX. 0.4 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 0.25 MILES TO A ROAD LATH WITH RED & WHITE FLAGGING, FOLLOW ROAD LATHS NORTH APPROX. 500' TO THE SOUTHEAST CORNER FOR THIS LOCATION.

I, FILIMON F. JARMILL, A NEW MEXICO PROFESSIONAL SURVEYOR, CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARMILL, LICENSE NO. 12793

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

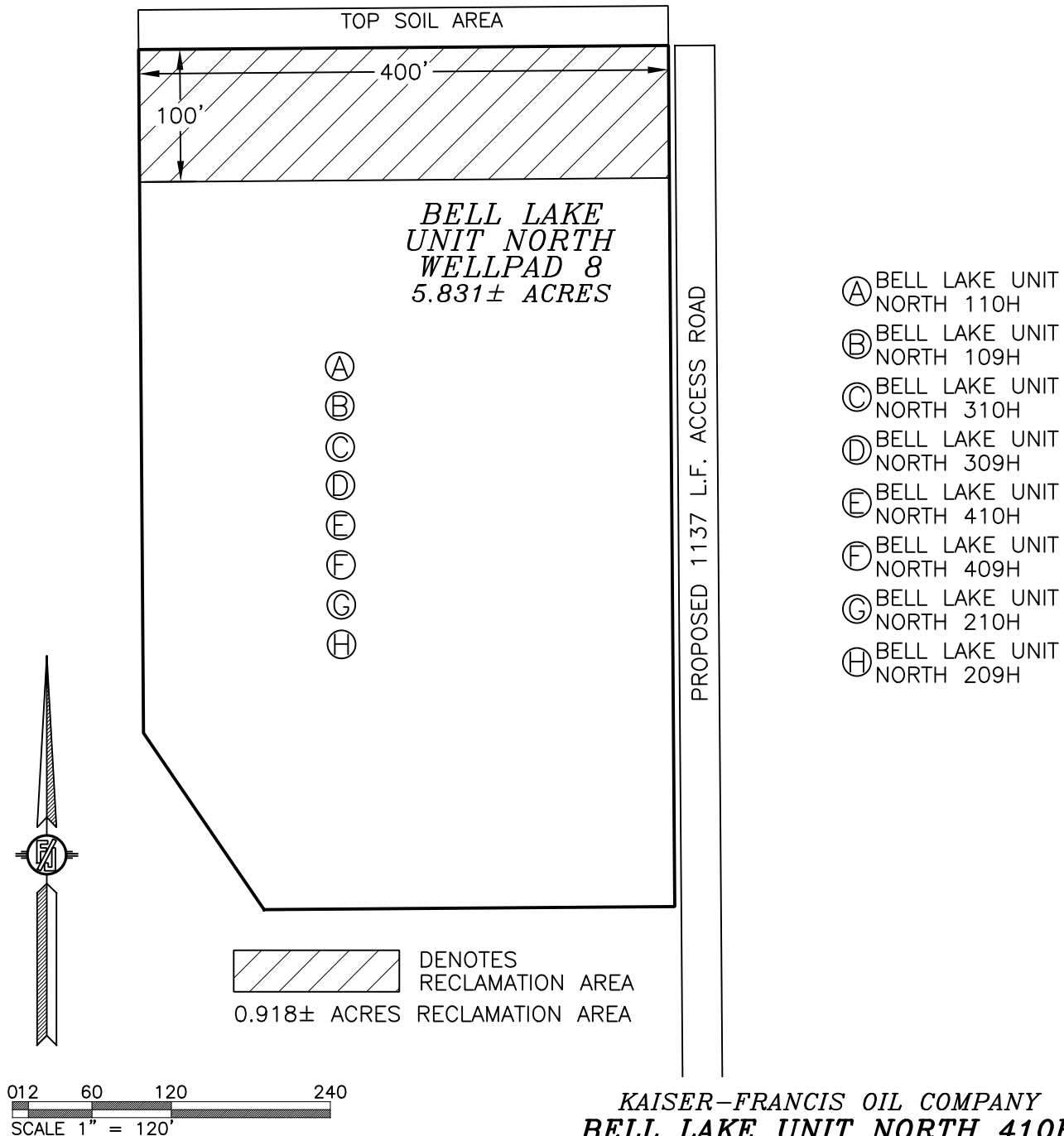
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 19, 2019

SURVEY NO. 7649A

CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 19, 2019

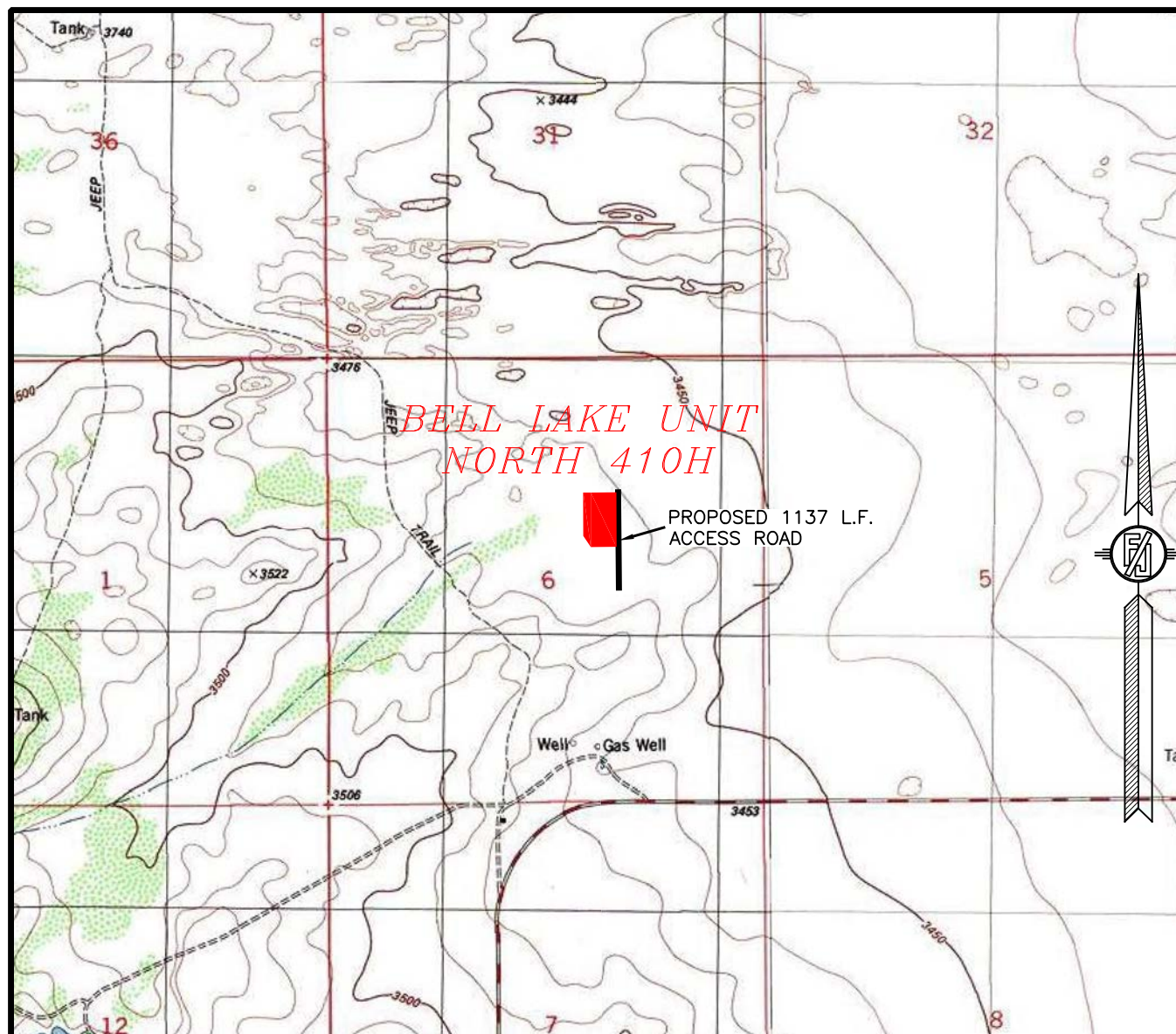
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7649A

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
SAN SIMON SINK
TIP TOP WELLS

NOT TO SCALE

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

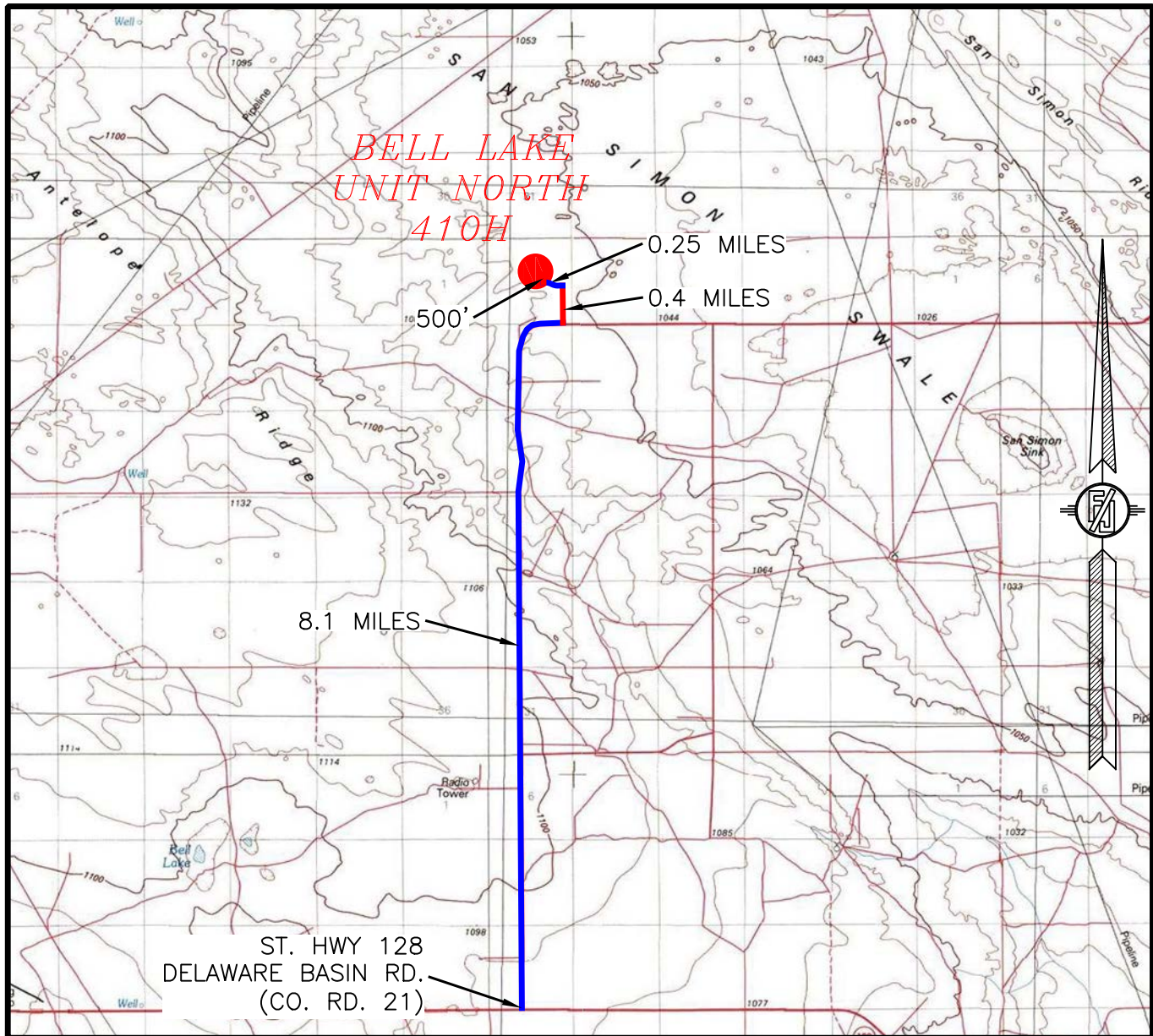
DECEMBER 19, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7649A
CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 128 & DELAWARE BASIN RD. GO NORTH ON DELAWARE BASIN RD. APPROX. 8.1 MILES WHERE ROAD CURVES RIGHT (EAST) AT THE END OF CURVE THE SECOND LEASE ROAD KAISER-FRANCIS SIGNS ON LEFT (NORTH), TURN LEFT (NORTH) ON LEASE ROAD, GO NORTH APPROX. 0.4 MILES, ROAD TURNS LEFT (WEST) GO WEST APPROX. 0.25 MILES TO A ROAD LATH WITH RED & WHITE FLAGGING, FOLLOW ROAD LATHS NORTH APPROX. 500' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

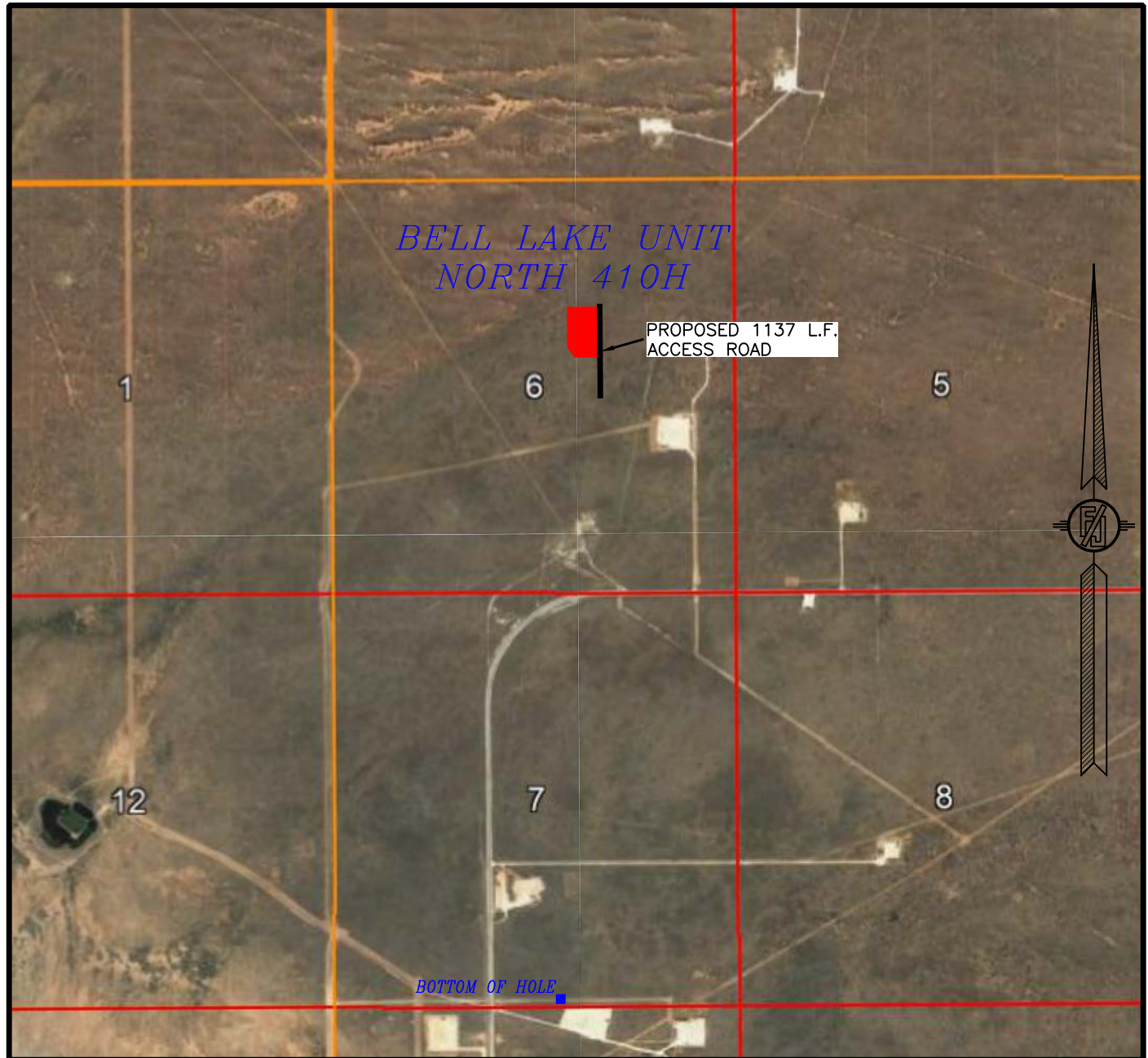
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 19, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341SURVEY NO. 7649A
CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOV. 2017

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

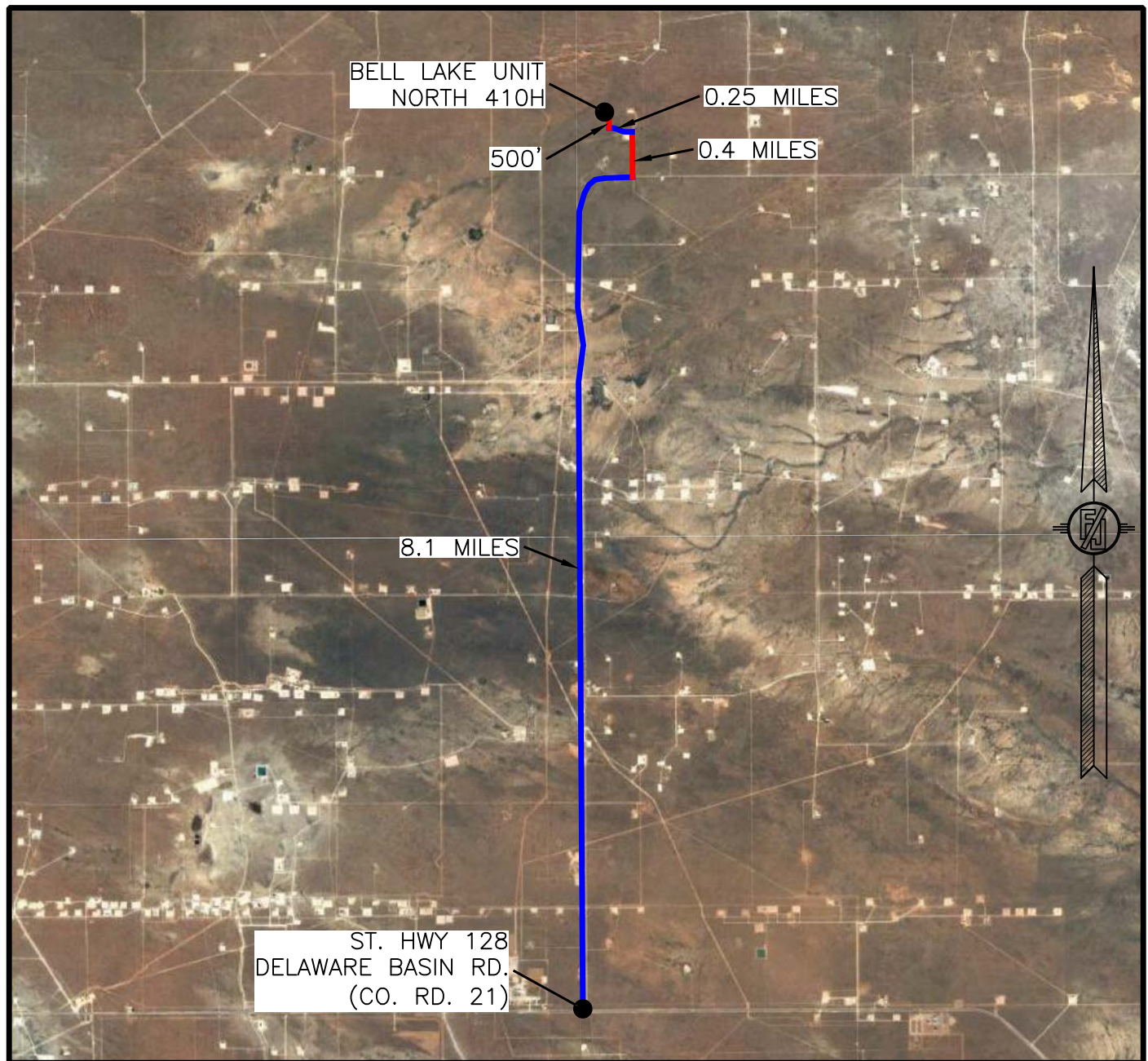
DECEMBER 19, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7649A
CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOV. 2017

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
LOCATED 1975 FT. FROM THE NORTH LINE
AND 1985 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

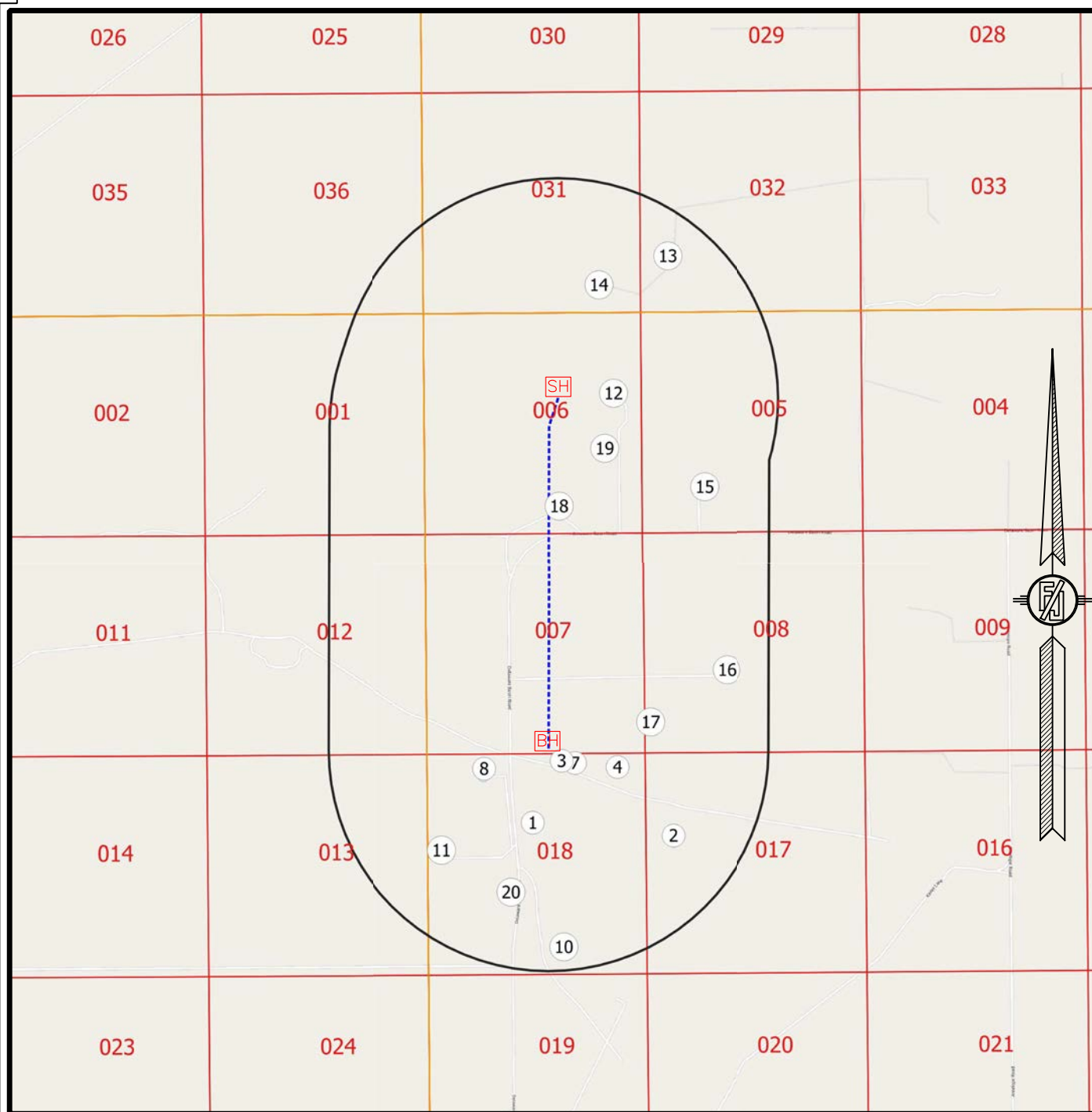
DECEMBER 19, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7649A
CARLSBAD, NEW MEXICO

1-MILE WELLS



WELL DATA FROM NMOCD GIS - 7/30/19

[SH] SURFACE LOCATION

[BH] BOTTOM OF HOLE

[XX] WELLS WITHIN 1 MILE

--- WELL PATH

— 1-MILE BOUNDARY

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 410H
 LOCATED 1975 FT. FROM THE NORTH LINE
 AND 1985 FT. FROM THE EAST LINE OF
 SECTION 6, TOWNSHIP 23 SOUTH,
 RANGE 34 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 19, 2019

SURVEY NO. 7649A

MADRON SURVEYING, INC. 301 SOUTH CANAL

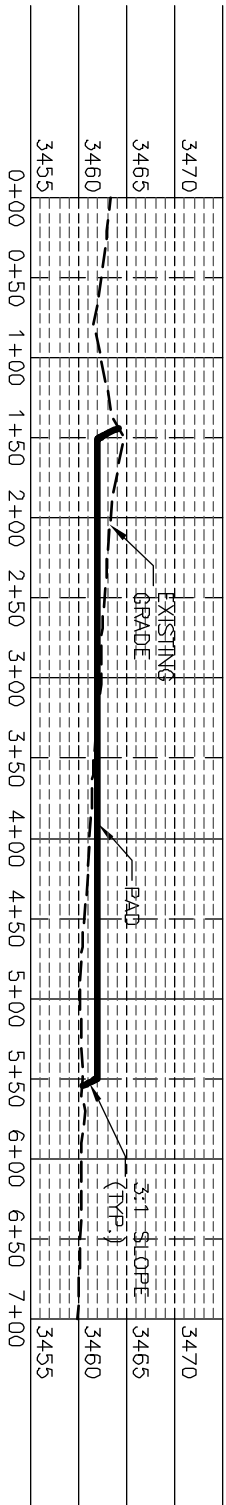
(575) 234-3341

CARLSBAD, NEW MEXICO

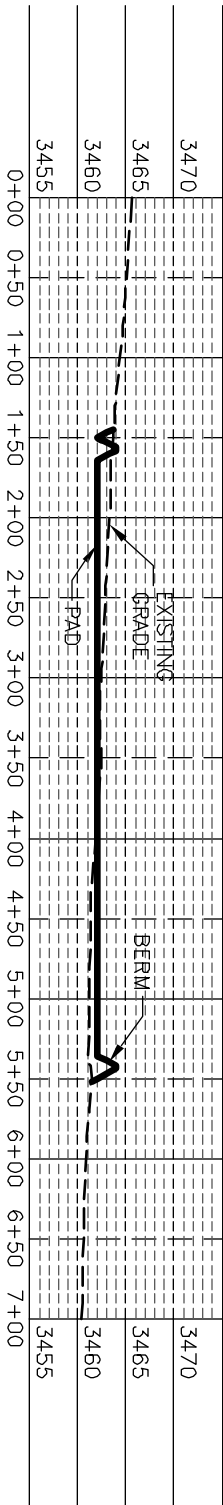


CROSS-SECTIONS

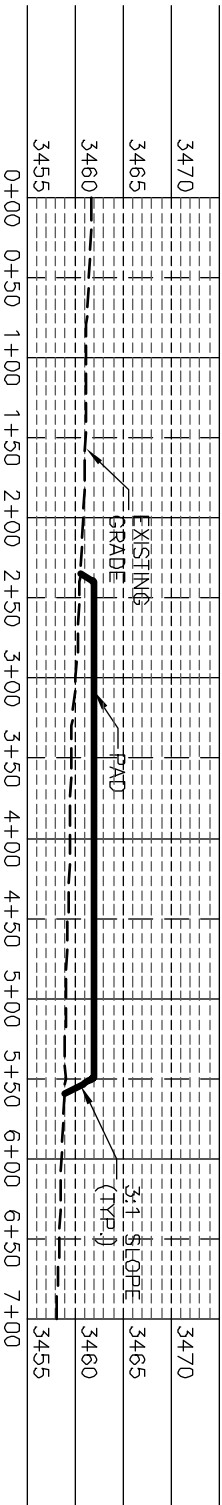
SECTION A-A'



SECTION B-B'

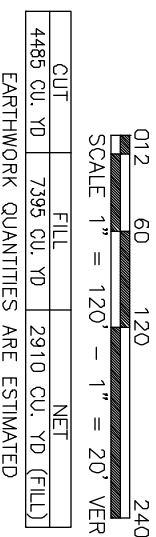


SECTION C-C'



I, FILMON F. JARAMA, a NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12797, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY IS MADE AND DIRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM NOT AWARE OF ANY OTHER SURVEYS OR PLATS THAT MAY AFFECT THIS SURVEY.

KAISER-FRANCIS OIL COMPANY
PAD GRADING AND CROSS SECTIONS
FOR BELL LAKE UNIT NORTH 410H
SECTION 6, TOWNSHIP 28 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

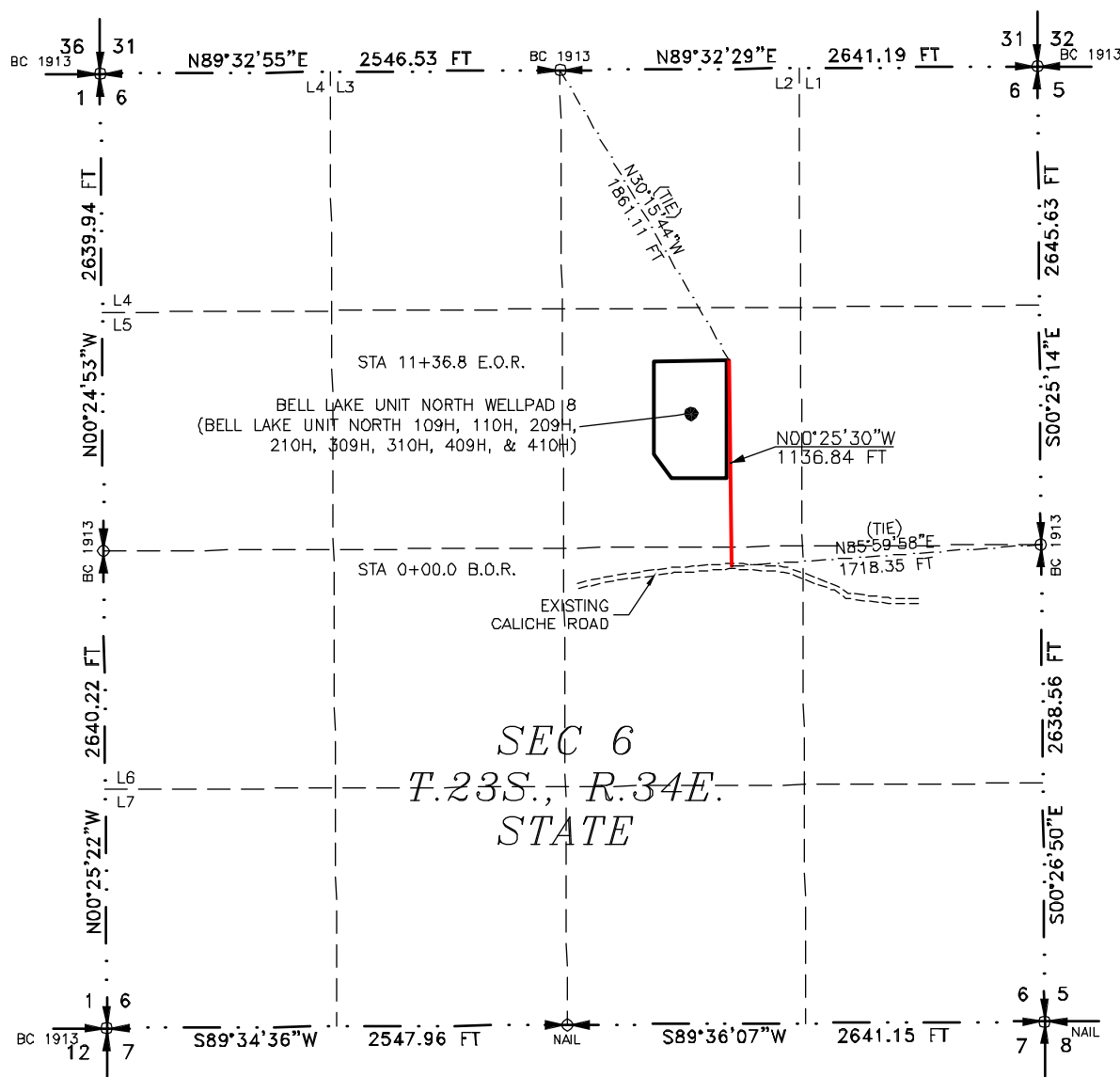


DECEMBER 19, 2019
301 SOUTH CANAL
CARLSBAD, NEW MEXICO
SHEET 2-2
SURVEY NO. 7649A

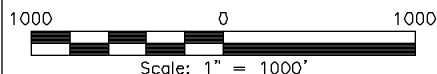
ACCESS ROAD PLAT

ACCESS ROAD FOR BELL LAKE UNIT NORTH WELLPAD 8
(BELL LAKE UNIT NORTH 109H, 110H, 209H, 210H, 309H, 310H, 409H, & 410H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 19, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19TH DAY OF DECEMBER 2019.

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7649A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT

ACCESS ROAD FOR BELL LAKE UNIT NORTH WELLPAD 8
(BELL LAKE UNIT NORTH 109H, 110H, 209H, 210H, 309H, 310H, 409H, & 410H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 19, 2019

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SE/4 OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N85°59'58"E, A DISTANCE OF 1718.35 FEET;
THENCE N00°25'30"W A DISTANCE OF 1136.84 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N30°15'44"W, A DISTANCE OF 1861.11 FEET;

SAID STRIP OF LAND BEING 1136.84 FEET OR 68.90 RODS IN LENGTH, CONTAINING 0.783 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SE/4	108.15 L.F.	6.55 RODS	0.074 ACRES
SW/4 NE/4	1028.69 L.F.	62.35 RODS	0.708 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19TH DAY OF DECEMBER 2019

FILIMON F. JARAMILLO
12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SURVEY NO. 7649A



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 6-T23S-R34E

BELL LAKE UNIT N. 410H

HORIZONTAL

Plan: PLAN 2

Standard Planning Report

17 September, 2021

Kaiser-Francis Oil Company



SB Directional Services

Planning Report

Kaiser-Francis Oil Company

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 410H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

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 6-T23S-R34E			
Site Position:		Northing:	485,269.02 usft	Latitude:	32.33139
From:	Map	Easting:	756,497.04 usft	Longitude:	-103.50292
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.44

Well	BELL LAKE UNIT N. 410H					
Well Position	+N/-S	1,432.86 usft	Northing:	486,701.88 usft	Latitude:	32.33535
	+E/-W	-1,164.58 usft	Easting:	755,332.46 usft	Longitude:	-103.50666
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,462.30 usft	Ground Level:	3,462.30 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	09/03/21	6.50	60.00	47,543.09271618

Design	PLAN 2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Survey Tool Program	Date	09/17/21		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,392.46	PLAN 2 (HORIZONTAL)	MWD
			OWSG MWD - Standard	



SB Directional Services

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Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	8.00	237.28	1,998.70	-15.07	-23.46	2.00	2.00	0.00	237.28	
4,782.16	8.00	237.28	4,753.79	-224.36	-349.22	0.00	0.00	0.00	0.00	
5,182.16	2.00	237.28	5,152.08	-243.20	-378.54	1.50	-1.50	0.00	180.00	
11,027.25	2.00	237.28	10,993.61	-353.46	-550.16	0.00	0.00	0.00	0.00	KOP BLUN410
11,670.13	91.07	179.49	11,395.00	-770.37	-558.57	14.00	13.85	-8.99	-57.77	LTP BLUN410
15,670.61	91.07	179.49	11,320.29	-4,770.00	-523.27	0.00	0.00	0.00	0.00	
15,885.61	86.77	179.49	11,324.35	-4,984.90	-521.37	2.00	-2.00	0.00	-179.94	
17,673.62	86.77	179.49	11,425.09	-6,770.00	-505.48	0.00	0.00	0.00	0.00	
17,929.30	91.88	179.50	11,428.09	-7,025.57	-503.22	2.00	2.00	0.00	0.11	
19,392.46	91.88	179.50	11,380.00	-8,487.88	-490.46	0.00	0.00	0.00	0.00	LTP BLUN410



SB Directional Services

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Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Nudge 2° DLS									
1,700.00	2.00	237.28	1,699.98	-0.94	-1.47	0.94	2.00	2.00	0.00
1,800.00	4.00	237.28	1,799.84	-3.77	-5.87	3.77	2.00	2.00	0.00
1,900.00	6.00	237.28	1,899.45	-8.48	-13.20	8.48	2.00	2.00	0.00
2,000.00	8.00	237.28	1,998.70	-15.07	-23.46	15.07	2.00	2.00	0.00
Hold 8° Inc									
2,100.00	8.00	237.28	2,097.73	-22.59	-35.17	22.59	0.00	0.00	0.00
2,200.00	8.00	237.28	2,196.76	-30.12	-46.87	30.12	0.00	0.00	0.00
2,300.00	8.00	237.28	2,295.78	-37.64	-58.58	37.64	0.00	0.00	0.00
2,400.00	8.00	237.28	2,394.81	-45.16	-70.29	45.16	0.00	0.00	0.00
2,500.00	8.00	237.28	2,493.84	-52.68	-82.00	52.68	0.00	0.00	0.00
2,600.00	8.00	237.28	2,592.86	-60.21	-93.71	60.21	0.00	0.00	0.00
2,700.00	8.00	237.28	2,691.89	-67.73	-105.42	67.73	0.00	0.00	0.00
2,800.00	8.00	237.28	2,790.92	-75.25	-117.13	75.25	0.00	0.00	0.00
2,900.00	8.00	237.28	2,889.94	-82.77	-128.84	82.77	0.00	0.00	0.00
3,000.00	8.00	237.28	2,988.97	-90.30	-140.55	90.30	0.00	0.00	0.00
3,100.00	8.00	237.28	3,088.00	-97.82	-152.26	97.82	0.00	0.00	0.00
3,200.00	8.00	237.28	3,187.02	-105.34	-163.96	105.34	0.00	0.00	0.00
3,300.00	8.00	237.28	3,286.05	-112.86	-175.67	112.86	0.00	0.00	0.00
3,400.00	8.00	237.28	3,385.08	-120.39	-187.38	120.39	0.00	0.00	0.00
3,500.00	8.00	237.28	3,484.10	-127.91	-199.09	127.91	0.00	0.00	0.00
3,600.00	8.00	237.28	3,583.13	-135.43	-210.80	135.43	0.00	0.00	0.00
3,700.00	8.00	237.28	3,682.16	-142.96	-222.51	142.96	0.00	0.00	0.00
3,800.00	8.00	237.28	3,781.18	-150.48	-234.22	150.48	0.00	0.00	0.00
3,900.00	8.00	237.28	3,880.21	-158.00	-245.93	158.00	0.00	0.00	0.00
4,000.00	8.00	237.28	3,979.24	-165.52	-257.64	165.52	0.00	0.00	0.00
4,100.00	8.00	237.28	4,078.26	-173.05	-269.35	173.05	0.00	0.00	0.00
4,200.00	8.00	237.28	4,177.29	-180.57	-281.05	180.57	0.00	0.00	0.00
4,300.00	8.00	237.28	4,276.32	-188.09	-292.76	188.09	0.00	0.00	0.00
4,400.00	8.00	237.28	4,375.35	-195.61	-304.47	195.61	0.00	0.00	0.00
4,500.00	8.00	237.28	4,474.37	-203.14	-316.18	203.14	0.00	0.00	0.00
4,600.00	8.00	237.28	4,573.40	-210.66	-327.89	210.66	0.00	0.00	0.00
4,700.00	8.00	237.28	4,672.43	-218.18	-339.60	218.18	0.00	0.00	0.00
4,782.16	8.00	237.28	4,753.79	-224.36	-349.22	224.36	0.00	0.00	0.00
Start Drop 1.5° DLS									
4,800.00	7.73	237.28	4,771.46	-225.68	-351.27	225.68	1.50	-1.50	0.00



SB Directional Services

Planning Report

Kaiser-Francis Oil Company

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	6.23	237.28	4,870.71	-232.25	-361.50	232.25	1.50	-1.50	0.00
5,000.00	4.73	237.28	4,970.25	-237.42	-369.54	237.42	1.50	-1.50	0.00
5,100.00	3.23	237.28	5,070.01	-241.17	-375.38	241.17	1.50	-1.50	0.00
5,182.16	2.00	237.28	5,152.08	-243.20	-378.54	243.20	1.50	-1.50	0.00
Hold 2° Inc									
5,200.00	2.00	237.28	5,169.91	-243.53	-379.06	243.53	0.00	0.00	0.00
5,300.00	2.00	237.28	5,269.85	-245.42	-382.00	245.42	0.00	0.00	0.00
5,400.00	2.00	237.28	5,369.79	-247.31	-384.93	247.31	0.00	0.00	0.00
5,500.00	2.00	237.28	5,469.73	-249.19	-387.87	249.19	0.00	0.00	0.00
5,600.00	2.00	237.28	5,569.67	-251.08	-390.81	251.08	0.00	0.00	0.00
5,700.00	2.00	237.28	5,669.61	-252.97	-393.74	252.97	0.00	0.00	0.00
5,800.00	2.00	237.28	5,769.55	-254.85	-396.68	254.85	0.00	0.00	0.00
5,900.00	2.00	237.28	5,869.48	-256.74	-399.61	256.74	0.00	0.00	0.00
6,000.00	2.00	237.28	5,969.42	-258.63	-402.55	258.63	0.00	0.00	0.00
6,100.00	2.00	237.28	6,069.36	-260.51	-405.49	260.51	0.00	0.00	0.00
6,200.00	2.00	237.28	6,169.30	-262.40	-408.42	262.40	0.00	0.00	0.00
6,300.00	2.00	237.28	6,269.24	-264.28	-411.36	264.28	0.00	0.00	0.00
6,400.00	2.00	237.28	6,369.18	-266.17	-414.30	266.17	0.00	0.00	0.00
6,500.00	2.00	237.28	6,469.12	-268.06	-417.23	268.06	0.00	0.00	0.00
6,600.00	2.00	237.28	6,569.06	-269.94	-420.17	269.94	0.00	0.00	0.00
6,700.00	2.00	237.28	6,669.00	-271.83	-423.10	271.83	0.00	0.00	0.00
6,800.00	2.00	237.28	6,768.94	-273.72	-426.04	273.72	0.00	0.00	0.00
6,900.00	2.00	237.28	6,868.88	-275.60	-428.98	275.60	0.00	0.00	0.00
7,000.00	2.00	237.28	6,968.81	-277.49	-431.91	277.49	0.00	0.00	0.00
7,100.00	2.00	237.28	7,068.75	-279.38	-434.85	279.38	0.00	0.00	0.00
7,200.00	2.00	237.28	7,168.69	-281.26	-437.78	281.26	0.00	0.00	0.00
7,300.00	2.00	237.28	7,268.63	-283.15	-440.72	283.15	0.00	0.00	0.00
7,400.00	2.00	237.28	7,368.57	-285.04	-443.66	285.04	0.00	0.00	0.00
7,500.00	2.00	237.28	7,468.51	-286.92	-446.59	286.92	0.00	0.00	0.00
7,600.00	2.00	237.28	7,568.45	-288.81	-449.53	288.81	0.00	0.00	0.00
7,700.00	2.00	237.28	7,668.39	-290.69	-452.47	290.69	0.00	0.00	0.00
7,800.00	2.00	237.28	7,768.33	-292.58	-455.40	292.58	0.00	0.00	0.00
7,900.00	2.00	237.28	7,868.27	-294.47	-458.34	294.47	0.00	0.00	0.00
8,000.00	2.00	237.28	7,968.21	-296.35	-461.27	296.35	0.00	0.00	0.00
8,100.00	2.00	237.28	8,068.14	-298.24	-464.21	298.24	0.00	0.00	0.00
8,200.00	2.00	237.28	8,168.08	-300.13	-467.15	300.13	0.00	0.00	0.00
8,300.00	2.00	237.28	8,268.02	-302.01	-470.08	302.01	0.00	0.00	0.00
8,400.00	2.00	237.28	8,367.96	-303.90	-473.02	303.90	0.00	0.00	0.00
8,500.00	2.00	237.28	8,467.90	-305.79	-475.96	305.79	0.00	0.00	0.00
8,600.00	2.00	237.28	8,567.84	-307.67	-478.89	307.67	0.00	0.00	0.00
8,700.00	2.00	237.28	8,667.78	-309.56	-481.83	309.56	0.00	0.00	0.00
8,800.00	2.00	237.28	8,767.72	-311.45	-484.76	311.45	0.00	0.00	0.00
8,900.00	2.00	237.28	8,867.66	-313.33	-487.70	313.33	0.00	0.00	0.00
9,000.00	2.00	237.28	8,967.60	-315.22	-490.64	315.22	0.00	0.00	0.00
9,100.00	2.00	237.28	9,067.54	-317.10	-493.57	317.10	0.00	0.00	0.00
9,200.00	2.00	237.28	9,167.47	-318.99	-496.51	318.99	0.00	0.00	0.00
9,300.00	2.00	237.28	9,267.41	-320.88	-499.44	320.88	0.00	0.00	0.00
9,400.00	2.00	237.28	9,367.35	-322.76	-502.38	322.76	0.00	0.00	0.00
9,500.00	2.00	237.28	9,467.29	-324.65	-505.32	324.65	0.00	0.00	0.00
9,600.00	2.00	237.28	9,567.23	-326.54	-508.25	326.54	0.00	0.00	0.00
9,700.00	2.00	237.28	9,667.17	-328.42	-511.19	328.42	0.00	0.00	0.00
9,800.00	2.00	237.28	9,767.11	-330.31	-514.13	330.31	0.00	0.00	0.00
9,900.00	2.00	237.28	9,867.05	-332.20	-517.06	332.20	0.00	0.00	0.00
10,000.00	2.00	237.28	9,966.99	-334.08	-520.00	334.08	0.00	0.00	0.00



SB Directional Services

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Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00	2.00	237.28	10,066.93	-335.97	-522.93	335.97	0.00	0.00	0.00
10,200.00	2.00	237.28	10,166.87	-337.85	-525.87	337.85	0.00	0.00	0.00
10,300.00	2.00	237.28	10,266.80	-339.74	-528.81	339.74	0.00	0.00	0.00
10,400.00	2.00	237.28	10,366.74	-341.63	-531.74	341.63	0.00	0.00	0.00
10,500.00	2.00	237.28	10,466.68	-343.51	-534.68	343.51	0.00	0.00	0.00
10,600.00	2.00	237.28	10,566.62	-345.40	-537.62	345.40	0.00	0.00	0.00
10,700.00	2.00	237.28	10,666.56	-347.29	-540.55	347.29	0.00	0.00	0.00
10,800.00	2.00	237.28	10,766.50	-349.17	-543.49	349.17	0.00	0.00	0.00
10,900.00	2.00	237.28	10,866.44	-351.06	-546.42	351.06	0.00	0.00	0.00
11,000.00	2.00	237.28	10,966.38	-352.95	-549.36	352.95	0.00	0.00	0.00
11,027.25	2.00	237.28	10,993.61	-353.46	-550.16	353.46	0.00	0.00	0.00
KOP 14° DLS									
11,050.00	4.58	201.18	11,016.32	-354.52	-550.82	354.52	14.00	11.32	-158.67
11,075.00	7.93	191.76	11,041.17	-357.14	-551.53	357.14	14.00	13.43	-37.68
11,100.00	11.38	187.97	11,065.81	-361.27	-552.23	361.27	14.00	13.77	-15.18
11,125.00	14.85	185.92	11,090.16	-366.90	-552.90	366.90	14.00	13.88	-8.17
11,150.00	18.33	184.64	11,114.12	-374.01	-553.55	374.01	14.00	13.92	-5.13
11,175.00	21.81	183.76	11,137.59	-382.56	-554.17	382.56	14.00	13.95	-3.54
11,200.00	25.30	183.11	11,160.51	-392.54	-554.77	392.54	14.00	13.96	-2.60
11,225.00	28.80	182.61	11,182.77	-403.89	-555.33	403.89	14.00	13.97	-2.01
11,250.00	32.29	182.20	11,204.30	-416.58	-555.86	416.58	14.00	13.98	-1.61
11,275.00	35.79	181.87	11,225.01	-430.57	-556.36	430.57	14.00	13.98	-1.32
11,300.00	39.28	181.60	11,244.83	-445.79	-556.82	445.79	14.00	13.98	-1.12
11,325.00	42.78	181.36	11,263.69	-462.19	-557.24	462.19	14.00	13.99	-0.96
11,350.00	46.28	181.14	11,281.51	-479.72	-557.62	479.72	14.00	13.99	-0.84
11,375.00	49.77	180.96	11,298.22	-498.30	-557.96	498.30	14.00	13.99	-0.75
11,400.00	53.27	180.79	11,313.78	-517.86	-558.26	517.86	14.00	13.99	-0.68
11,425.00	56.77	180.63	11,328.11	-538.34	-558.51	538.34	14.00	13.99	-0.62
11,450.00	60.27	180.49	11,341.16	-559.66	-558.72	559.66	14.00	13.99	-0.57
11,475.00	63.76	180.36	11,352.89	-581.73	-558.88	581.73	14.00	13.99	-0.53
11,500.00	67.26	180.24	11,363.25	-604.48	-559.00	604.48	14.00	13.99	-0.50
11,525.00	70.76	180.12	11,372.20	-627.81	-559.07	627.81	14.00	13.99	-0.47
11,550.00	74.26	180.00	11,379.72	-651.65	-559.10	651.65	14.00	13.99	-0.45
11,575.00	77.76	179.89	11,385.76	-675.91	-559.07	675.91	14.00	13.99	-0.44
11,600.00	81.26	179.79	11,390.31	-700.49	-559.01	700.49	14.00	13.99	-0.43
11,625.00	84.75	179.68	11,393.36	-725.30	-558.89	725.30	14.00	13.99	-0.42
11,650.00	88.25	179.58	11,394.88	-750.25	-558.73	750.25	14.00	13.99	-0.41
11,670.13	91.07	179.49	11,395.00	-770.37	-558.57	770.37	14.00	13.99	-0.41
FTP 11670.13' MD & 11395.00' TVD									
11,700.00	91.07	179.49	11,394.44	-800.24	-558.30	800.24	0.00	0.00	0.00
11,800.00	91.07	179.49	11,392.57	-900.22	-557.42	900.22	0.00	0.00	0.00
11,900.00	91.07	179.49	11,390.71	-1,000.19	-556.54	1,000.19	0.00	0.00	0.00
12,000.00	91.07	179.49	11,388.84	-1,100.17	-555.66	1,100.17	0.00	0.00	0.00
12,100.00	91.07	179.49	11,386.97	-1,200.15	-554.77	1,200.15	0.00	0.00	0.00
12,200.00	91.07	179.49	11,385.10	-1,300.13	-553.89	1,300.13	0.00	0.00	0.00
12,300.00	91.07	179.49	11,383.24	-1,400.11	-553.01	1,400.11	0.00	0.00	0.00
12,400.00	91.07	179.49	11,381.37	-1,500.09	-552.13	1,500.09	0.00	0.00	0.00
12,500.00	91.07	179.49	11,379.50	-1,600.07	-551.24	1,600.07	0.00	0.00	0.00
12,600.00	91.07	179.49	11,377.63	-1,700.04	-550.36	1,700.04	0.00	0.00	0.00
12,700.00	91.07	179.49	11,375.77	-1,800.02	-549.48	1,800.02	0.00	0.00	0.00
12,800.00	91.07	179.49	11,373.90	-1,900.00	-548.60	1,900.00	0.00	0.00	0.00
12,900.00	91.07	179.49	11,372.03	-1,999.98	-547.72	1,999.98	0.00	0.00	0.00
13,000.00	91.07	179.49	11,370.16	-2,099.96	-546.83	2,099.96	0.00	0.00	0.00
13,100.00	91.07	179.49	11,368.30	-2,199.94	-545.95	2,199.94	0.00	0.00	0.00



SB Directional Services

Planning Report

Kaiser-Francis Oil Company

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 410H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.00	91.07	179.49	11,366.43	-2,299.92	-545.07	2,299.92	0.00	0.00	0.00
13,300.00	91.07	179.49	11,364.56	-2,399.90	-544.19	2,399.90	0.00	0.00	0.00
13,400.00	91.07	179.49	11,362.70	-2,499.87	-543.30	2,499.87	0.00	0.00	0.00
13,500.00	91.07	179.49	11,360.83	-2,599.85	-542.42	2,599.85	0.00	0.00	0.00
13,600.00	91.07	179.49	11,358.96	-2,699.83	-541.54	2,699.83	0.00	0.00	0.00
13,700.00	91.07	179.49	11,357.09	-2,799.81	-540.66	2,799.81	0.00	0.00	0.00
13,800.00	91.07	179.49	11,355.23	-2,899.79	-539.77	2,899.79	0.00	0.00	0.00
13,900.00	91.07	179.49	11,353.36	-2,999.77	-538.89	2,999.77	0.00	0.00	0.00
14,000.00	91.07	179.49	11,351.49	-3,099.75	-538.01	3,099.75	0.00	0.00	0.00
14,100.00	91.07	179.49	11,349.62	-3,199.72	-537.13	3,199.72	0.00	0.00	0.00
14,200.00	91.07	179.49	11,347.76	-3,299.70	-536.25	3,299.70	0.00	0.00	0.00
14,300.00	91.07	179.49	11,345.89	-3,399.68	-535.36	3,399.68	0.00	0.00	0.00
14,400.00	91.07	179.49	11,344.02	-3,499.66	-534.48	3,499.66	0.00	0.00	0.00
14,500.00	91.07	179.49	11,342.15	-3,599.64	-533.60	3,599.64	0.00	0.00	0.00
14,600.00	91.07	179.49	11,340.29	-3,699.62	-532.72	3,699.62	0.00	0.00	0.00
14,700.00	91.07	179.49	11,338.42	-3,799.60	-531.83	3,799.60	0.00	0.00	0.00
14,800.00	91.07	179.49	11,336.55	-3,899.58	-530.95	3,899.58	0.00	0.00	0.00
14,900.00	91.07	179.49	11,334.68	-3,999.55	-530.07	3,999.55	0.00	0.00	0.00
15,000.00	91.07	179.49	11,332.82	-4,099.53	-529.19	4,099.53	0.00	0.00	0.00
15,100.00	91.07	179.49	11,330.95	-4,199.51	-528.30	4,199.51	0.00	0.00	0.00
15,200.00	91.07	179.49	11,329.08	-4,299.49	-527.42	4,299.49	0.00	0.00	0.00
15,300.00	91.07	179.49	11,327.21	-4,399.47	-526.54	4,399.47	0.00	0.00	0.00
15,400.00	91.07	179.49	11,325.35	-4,499.45	-525.66	4,499.45	0.00	0.00	0.00
15,500.00	91.07	179.49	11,323.48	-4,599.43	-524.78	4,599.43	0.00	0.00	0.00
15,600.00	91.07	179.49	11,321.61	-4,699.40	-523.89	4,699.40	0.00	0.00	0.00
15,670.61	91.07	179.49	11,320.29	-4,770.00	-523.27	4,770.00	0.00	0.00	0.00
4000' FTP									
15,700.00	90.48	179.49	11,319.90	-4,799.39	-523.01	4,799.39	2.00	-2.00	0.00
15,800.00	88.48	179.49	11,320.80	-4,899.37	-522.13	4,899.37	2.00	-2.00	0.00
15,885.61	86.77	179.49	11,324.35	-4,984.90	-521.37	4,984.90	2.00	-2.00	0.00
15,900.00	86.77	179.49	11,325.16	-4,999.27	-521.24	4,999.27	0.00	0.00	0.00
16,000.00	86.77	179.49	11,330.79	-5,099.11	-520.35	5,099.11	0.00	0.00	0.00
16,100.00	86.77	179.49	11,336.43	-5,198.94	-519.46	5,198.94	0.00	0.00	0.00
16,200.00	86.77	179.49	11,342.06	-5,298.78	-518.57	5,298.78	0.00	0.00	0.00
16,300.00	86.77	179.49	11,347.69	-5,398.62	-517.68	5,398.62	0.00	0.00	0.00
16,400.00	86.77	179.49	11,353.33	-5,498.45	-516.79	5,498.45	0.00	0.00	0.00
16,500.00	86.77	179.49	11,358.96	-5,598.29	-515.91	5,598.29	0.00	0.00	0.00
16,600.00	86.77	179.49	11,364.60	-5,698.13	-515.02	5,698.13	0.00	0.00	0.00
16,700.00	86.77	179.49	11,370.23	-5,797.97	-514.13	5,797.97	0.00	0.00	0.00
16,800.00	86.77	179.49	11,375.87	-5,897.80	-513.24	5,897.80	0.00	0.00	0.00
16,900.00	86.77	179.49	11,381.50	-5,997.64	-512.35	5,997.64	0.00	0.00	0.00
17,000.00	86.77	179.49	11,387.14	-6,097.48	-511.46	6,097.48	0.00	0.00	0.00
17,100.00	86.77	179.49	11,392.77	-6,197.32	-510.57	6,197.32	0.00	0.00	0.00
17,200.00	86.77	179.49	11,398.40	-6,297.15	-509.68	6,297.15	0.00	0.00	0.00
17,300.00	86.77	179.49	11,404.04	-6,396.99	-508.80	6,396.99	0.00	0.00	0.00
17,400.00	86.77	179.49	11,409.67	-6,496.83	-507.91	6,496.83	0.00	0.00	0.00
17,500.00	86.77	179.49	11,415.31	-6,596.66	-507.02	6,596.66	0.00	0.00	0.00
17,600.00	86.77	179.49	11,420.94	-6,696.50	-506.13	6,696.50	0.00	0.00	0.00
17,673.62	86.77	179.49	11,425.09	-6,770.00	-505.48	6,770.00	0.00	0.00	0.00
6000' FTP									
17,700.00	87.30	179.49	11,426.45	-6,796.34	-505.24	6,796.34	2.00	2.00	0.00
17,800.00	89.30	179.49	11,429.43	-6,896.29	-504.36	6,896.29	2.00	2.00	0.00
17,900.00	91.30	179.50	11,428.91	-6,996.28	-503.48	6,996.28	2.00	2.00	0.00



SB Directional Services

Planning Report

Kaiser-Francis Oil Company

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 410H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3485.80usft (CAC 171)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 410H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,929.30	91.88	179.50	11,428.09	-7,025.57	-503.22	7,025.57	2.00	2.00	0.00
18,000.00	91.88	179.50	11,425.77	-7,096.23	-502.61	7,096.23	0.00	0.00	0.00
18,100.00	91.88	179.50	11,422.48	-7,196.17	-501.73	7,196.17	0.00	0.00	0.00
18,200.00	91.88	179.50	11,419.20	-7,296.11	-500.86	7,296.11	0.00	0.00	0.00
18,300.00	91.88	179.50	11,415.91	-7,396.05	-499.99	7,396.05	0.00	0.00	0.00
18,400.00	91.88	179.50	11,412.62	-7,496.00	-499.12	7,496.00	0.00	0.00	0.00
18,500.00	91.88	179.50	11,409.33	-7,595.94	-498.24	7,595.94	0.00	0.00	0.00
18,600.00	91.88	179.50	11,406.05	-7,695.88	-497.37	7,695.88	0.00	0.00	0.00
18,700.00	91.88	179.50	11,402.76	-7,795.82	-496.50	7,795.82	0.00	0.00	0.00
18,800.00	91.88	179.50	11,399.47	-7,895.77	-495.63	7,895.77	0.00	0.00	0.00
18,900.00	91.88	179.50	11,396.19	-7,995.71	-494.76	7,995.71	0.00	0.00	0.00
19,000.00	91.88	179.50	11,392.90	-8,095.65	-493.88	8,095.65	0.00	0.00	0.00
19,100.00	91.88	179.50	11,389.61	-8,195.59	-493.01	8,195.59	0.00	0.00	0.00
19,200.00	91.88	179.50	11,386.33	-8,295.53	-492.14	8,295.53	0.00	0.00	0.00
19,300.00	91.88	179.50	11,383.04	-8,395.48	-491.27	8,395.48	0.00	0.00	0.00
19,392.46	91.88	179.50	11,380.00	-8,487.88	-490.46	8,487.88	0.00	0.00	0.00
LTP 19392.46' MD & 11380.00' TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP BLUN410 - hit/miss target - Shape - Point	0.00	0.00	10,993.61	-353.46	-550.16	486,348.42	754,782.30	32.33439	-103.50845
LTP BLUN410 - plan hits target center - Point	0.00	0.00	11,380.00	-8,487.88	-490.46	478,214.00	754,842.00	32.31203	-103.50846
LP BLUN410 - plan hits target center - Point	0.00	0.00	11,395.00	-770.37	-558.57	485,931.51	754,773.89	32.33325	-103.50849

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	Start Nudge 2° DLS
2,000.00	1,998.70	-15.07	-23.46	Hold 8° Inc
4,782.16	4,753.79	-224.36	-349.22	Start Drop 1.5° DLS
5,182.16	5,152.08	-243.20	-378.54	Hold 2° Inc
11,027.25	10,993.61	-353.46	-550.16	KOP 14° DLS
11,670.13	11,395.00	-770.37	-558.57	FTP 11670.13' MD & 11395.00' TVD
15,670.61	11,320.29	-4,770.00	-523.27	4000' FTP
17,673.62	11,425.09	-6,770.00	-505.48	6000' FTP
19,392.46	11,380.00	-8,487.88	-490.46	LTP 19392.46' MD & 11380.00' TVD

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 166570

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 166570
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/29/2022