

Well Name: BELL LAKE UNIT SOUTH	Well Location: T24S / R33E / SEC 1 / SENW / 32.24724 / -103.52768	County or Parish/State: LEA / NM
Well Number: 204H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063798, NMLC063798	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002548177	Well Status: Producing Oil Well	Operator: KAISER FRANCIS OIL COMPANY

Notice of Intent

Sundry ID: 1340860

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 02/05/2021	Time Sundry Submitted: 01:18
Date proposed operation will begin: 02/04/2021	

Procedure Description: Kaiser-Francis Oil Company request to change the SHL for the following well on the Bell Lake Unit South Pad 0,1,4 Located in section 1-24S-33E. No new surface disturbance is requested. Bell Lake Unit South 204H API #30-025-48177 Approved SHL 2406 FNL 2144 FWL 1-24S-33E Lea County New Mexico. Proposed SHL 2567 FNL 2036 FWL 1-24S-33E Lea County New Mexico.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Kaiser_SHL_Sundry_1_24S_33E_20210205131801.docx
- BLUS_PAD_1_C102H_Signed_20210205131747.pdf

Well Name: BELL LAKE UNIT SOUTH	Well Location: T24S / R33E / SEC 1 / SENW / 32.24724 / -103.52768	County or Parish/State: LEA / NM
Well Number: 204H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0063798, NMLC063798	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002548177	Well Status: Producing Oil Well	Operator: KAISER FRANCIS OIL COMPANY

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: ERIC HANSEN	Signed on: FEB 05, 2021 01:18 PM
Name: KAISER FRANCIS OIL COMPANY	
Title: Drilling Engineer	
Street Address: 6733 S. Yale Ave.	
City: Tulsa	State: OK
Phone: (918) 491-4339	
Email address: EricH@kfoc.net	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 03/10/2021
Signature: Chris Walls	

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 30-025-48177	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 204H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3628.5

¹⁰ Surface Location

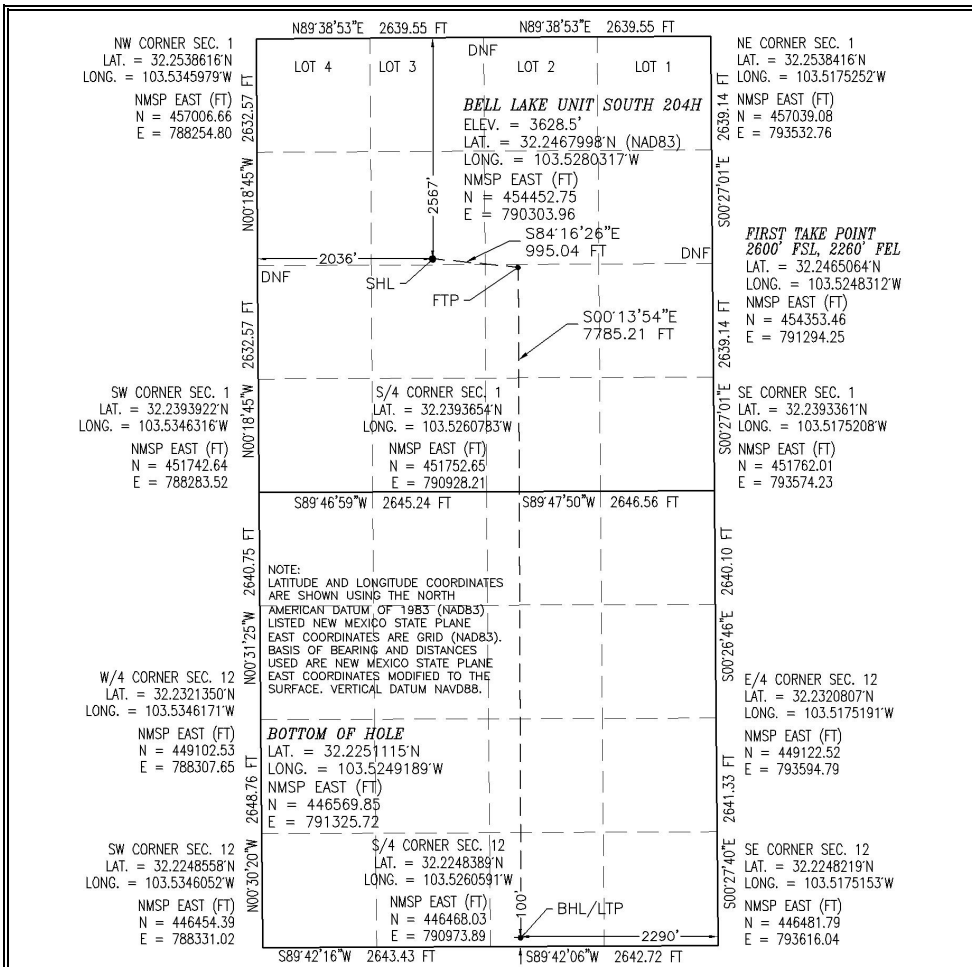
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	1	24 S	33 E		2567	NORTH	2036	WEST	LEA

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	12	24 S	33 E		100	SOUTH	2290	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.



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

9/27/22

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 22, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: **ELIMON F. JARAMILLO, PLS 12797**
SURVEY NO. 6942

Intent ☒ As Drilled ☐

API # 30-025-48177		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT SOUTH	Well Number 204H

Kick Off Point (KOP)

UL F	Section 1	Township 24S	Range 33E	Lot	Feet 2567	From N/S NORTH	Feet 2036	From E/W WEST	County LEA
Latitude 32.2467998					Longitude 103.5280317			NAD 83	

First Take Point (FTP)

UL J	Section 1	Township 24S	Range 33E	Lot	Feet 2600	From N/S SOUTH	Feet 2260	From E/W EAST	County LEA
Latitude 32.2465064					Longitude 103.5248312			NAD 83	

Last Take Point (LTP)

UL O	Section 12	Township 24S	Range 33E	Lot	Feet 100	From N/S SOUTH	Feet 2290	From E/W EAST	County LEA
Latitude 32.2251115					Longitude 103.5249189			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

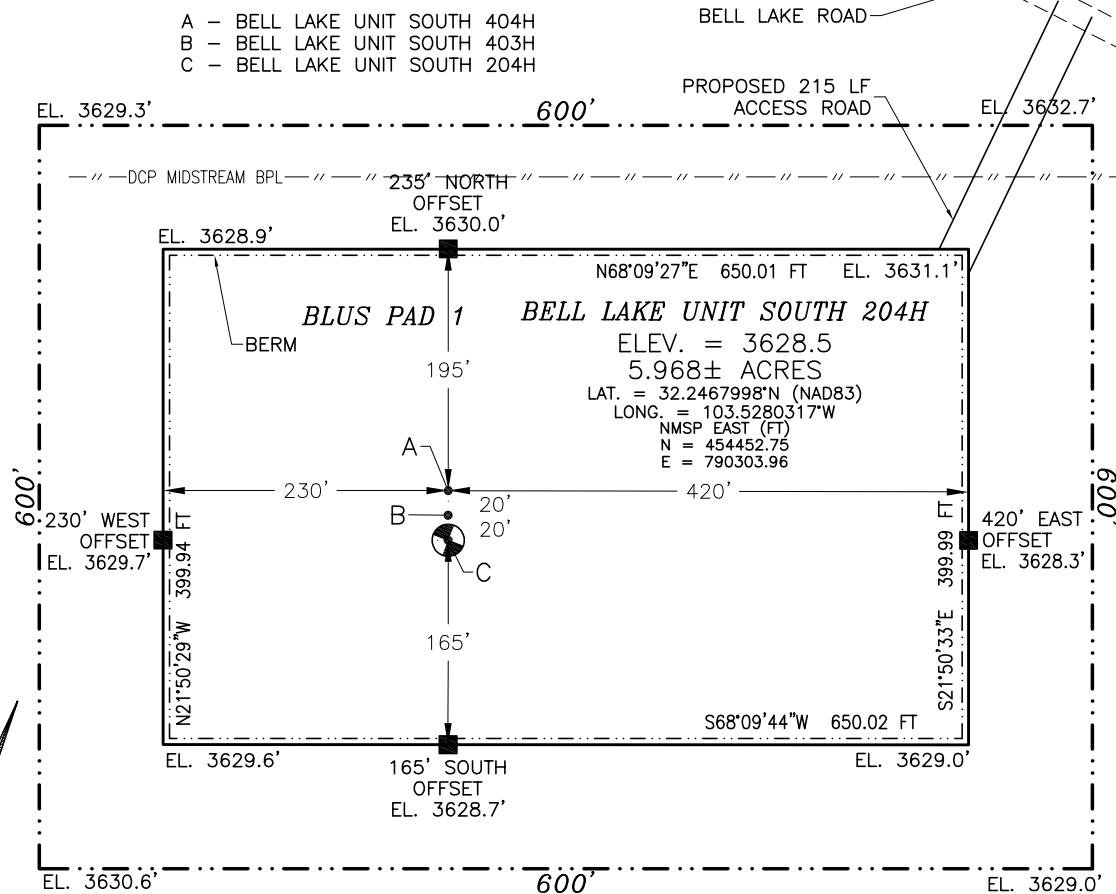
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



015 75 150 300

SCALE 1" = 150'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR. 21 (DELAWARE BASIN) GO NORTH ON CR. 21 2.6 MILES, TURN LEFT ON BELL LAKE ROAD AND GO WEST 0.95 OF A MILE TO ROAD SURVEY AND FOLLOW FLAGS SOUTHWEST 215' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I HAVE DRAWN AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY WAS MADE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO REG. 12797

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

KAISER-FRANCIS OIL CO.

BELL LAKE UNIT SOUTH 204H

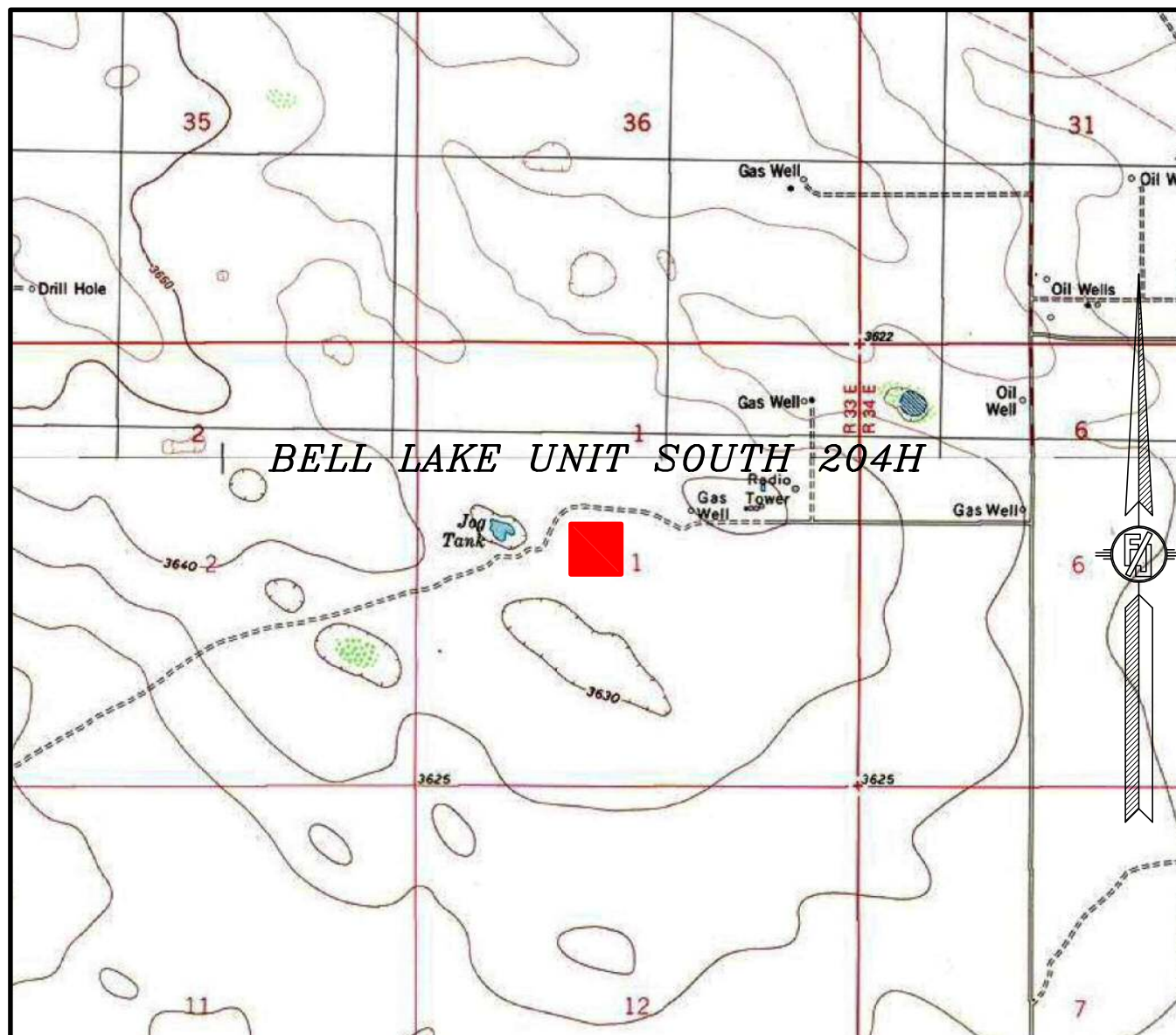
LOCATED 2567 FT. FROM THE NORTH LINE
AND 2036 FT. FROM THE WEST LINE OF
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2020

SURVEY NO. 6942

CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BELL LAKE

NOT TO SCALE

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 204H
LOCATED 2567 FT. FROM THE NORTH LINE
AND 2036 FT. FROM THE WEST LINE OF
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2020

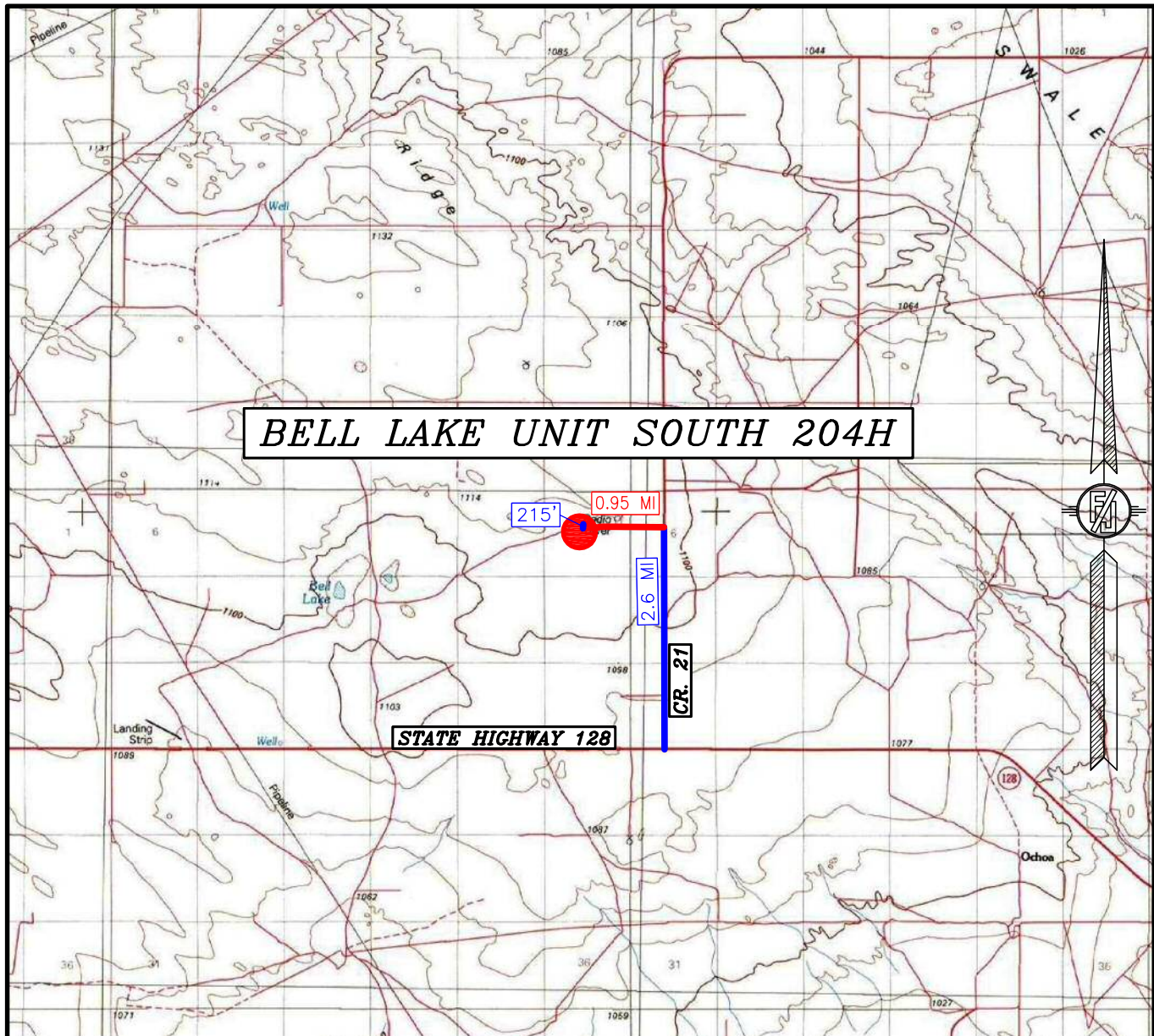
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 6942

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 204H
LOCATED 2567 FT. FROM THE NORTH LINE
AND 2036 FT. FROM THE WEST LINE OF
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2020

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR. 21 (DELAWARE BASIN) GO NORTH
ON CR. 21 2.6 MILES, TURN LEFT ON BELL LAKE ROAD AND GO
WEST 0.95 OF A MILE TO ROAD SURVEY AND FOLLOW FLAGS
SOUTHWEST 215° TO THE NORTHEAST PAD CORNER FOR THIS
LOCATION.

SURVEY NO. 6942

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2017

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 204H
LOCATED 2567 FT. FROM THE NORTH LINE
AND 2036 FT. FROM THE WEST LINE OF
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

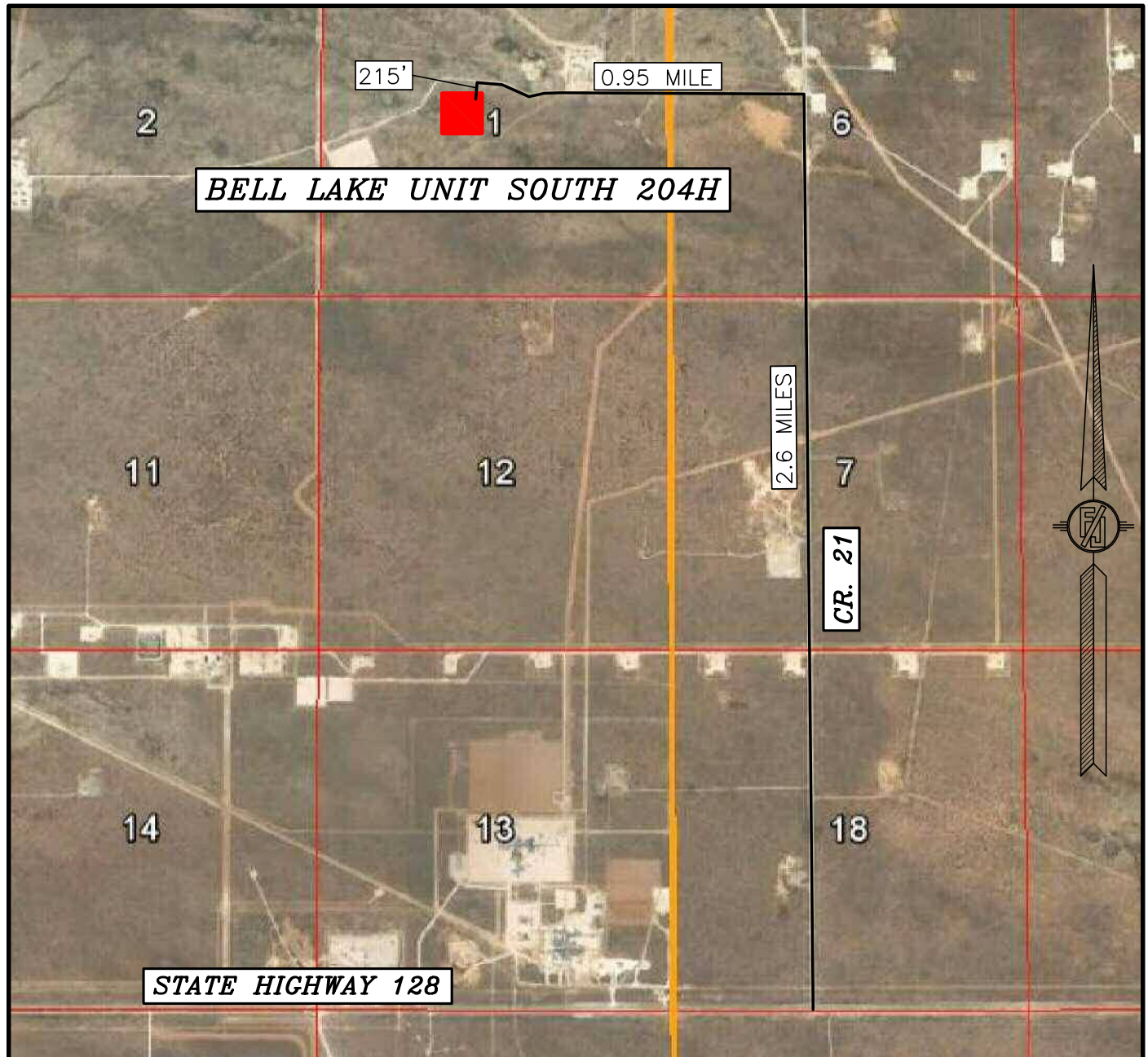
DECEMBER 22, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 6942
CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2017

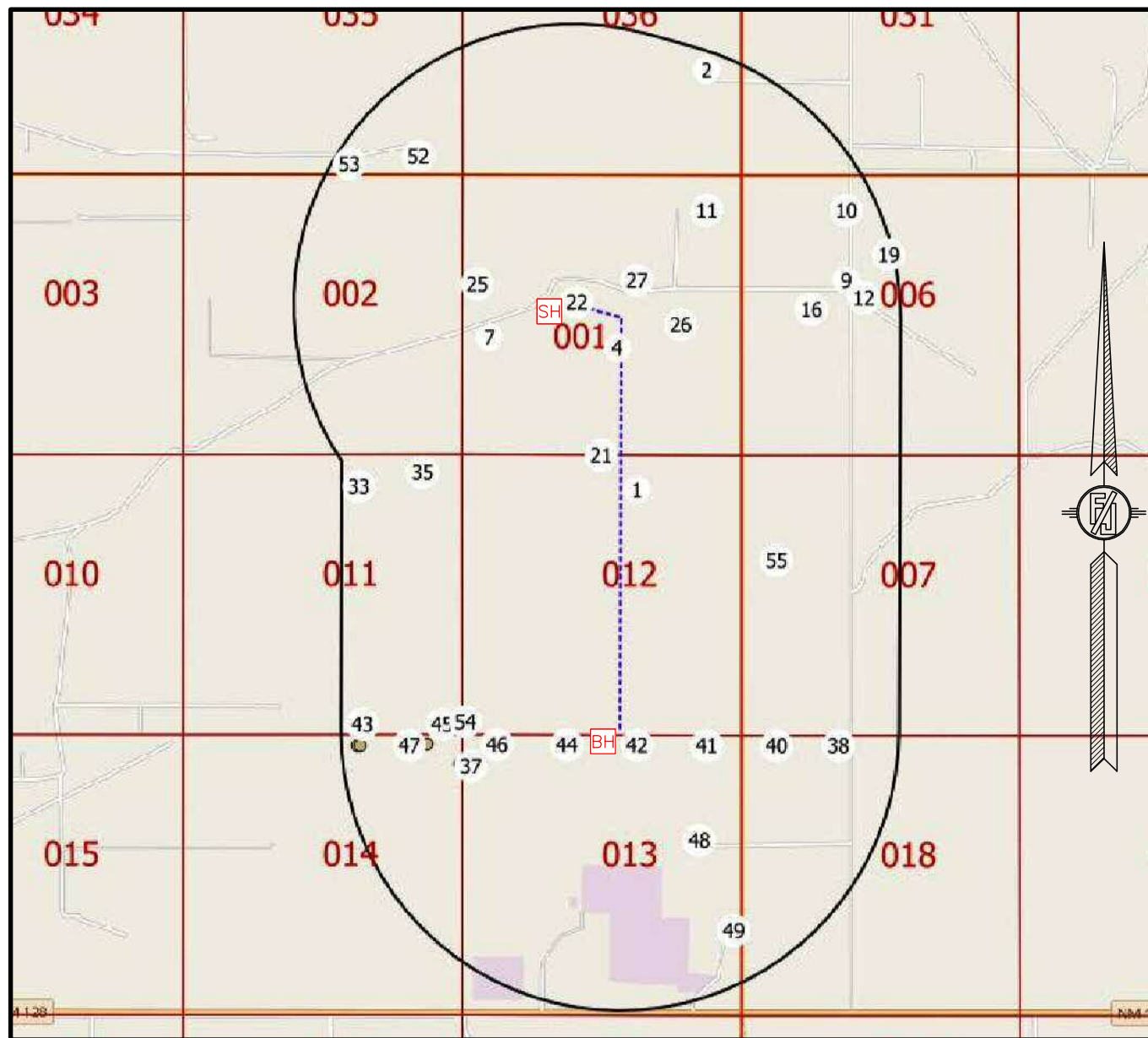
KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 204H
LOCATED 2567 FT. FROM THE NORTH LINE
AND 2036 FT. FROM THE WEST LINE OF
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2020

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

SURVEY NO. 6942
CARLSBAD, NEW MEXICO

1-MILE MAP



NOT TO SCALE

- [SH] SURFACE LOCATION
 [BH] BOTTOM OF HOLE
 (XX) WELLS WITHIN 1 MILE
 - - - - - WELL PATH
 _____ 1-MILE BOUNDARY

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 204H
 LOCATED 2567 FT. FROM THE NORTH LINE
 AND 2036 FT. FROM THE WEST LINE OF
 SECTION 1, TOWNSHIP 24 SOUTH,
 RANGE 33 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2020

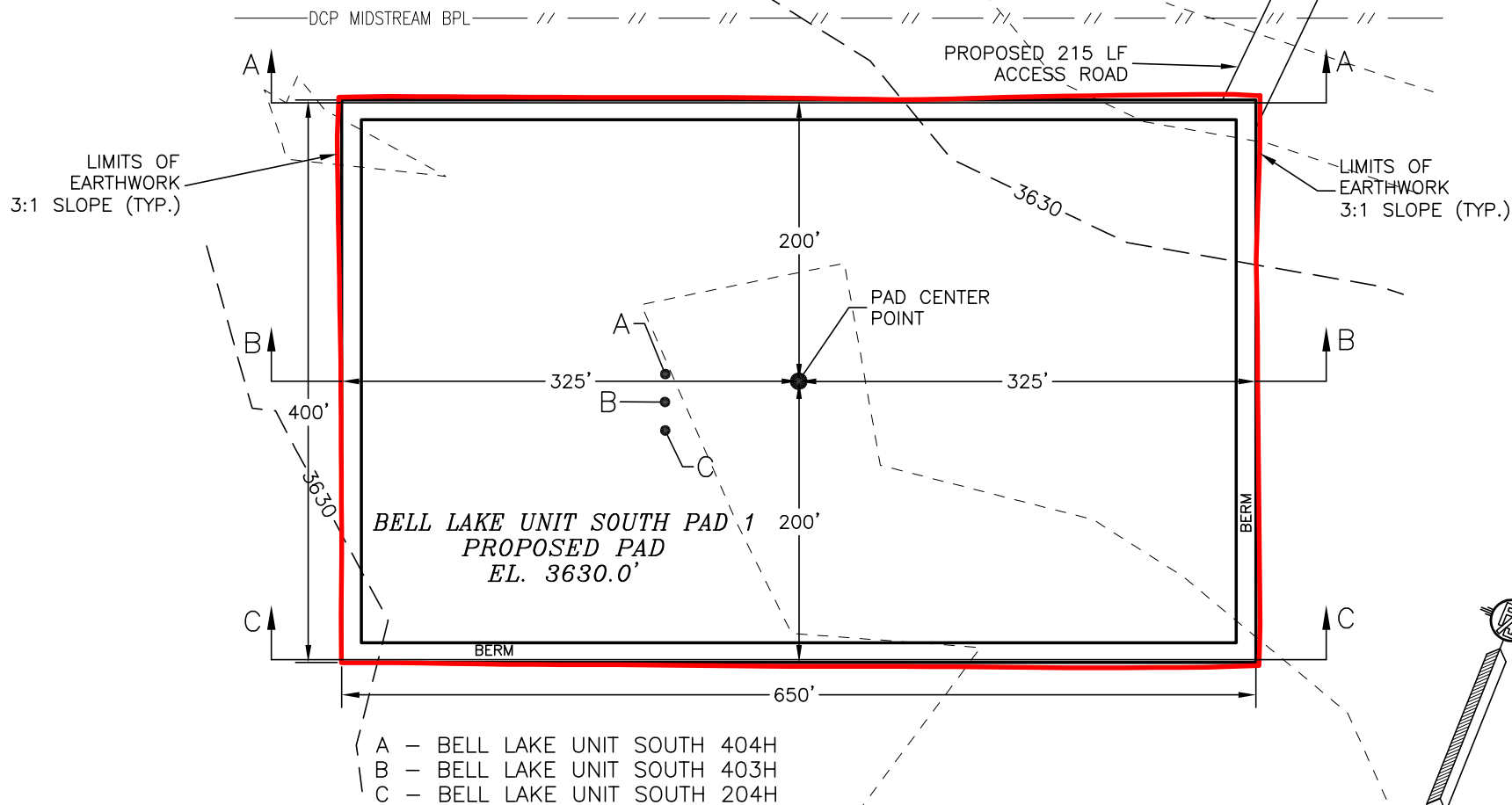
SURVEY NO. 6942

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL CO.
GRADING PLAN AND CROSS SECTIONS
FOR BELL LAKE UNIT SOUTH 204H
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

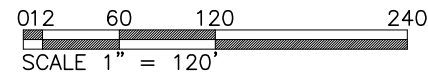
DECEMBER 22, 2020

FILIMON F. JARAMILLO, S. 12797

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

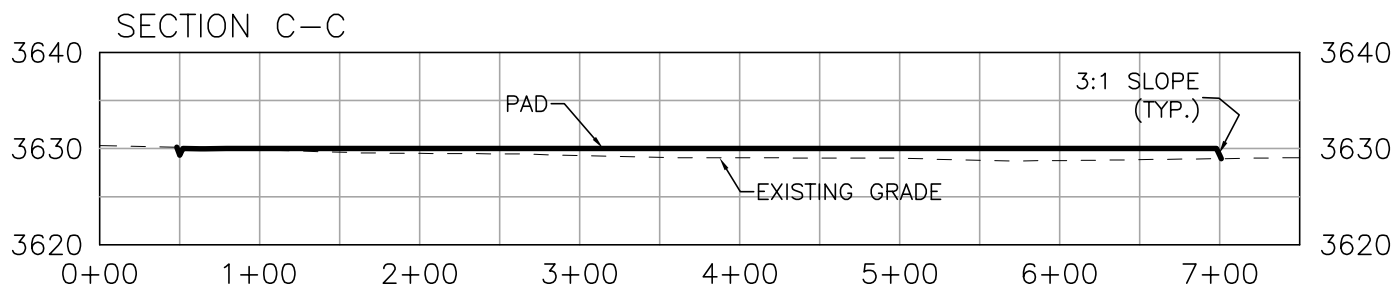
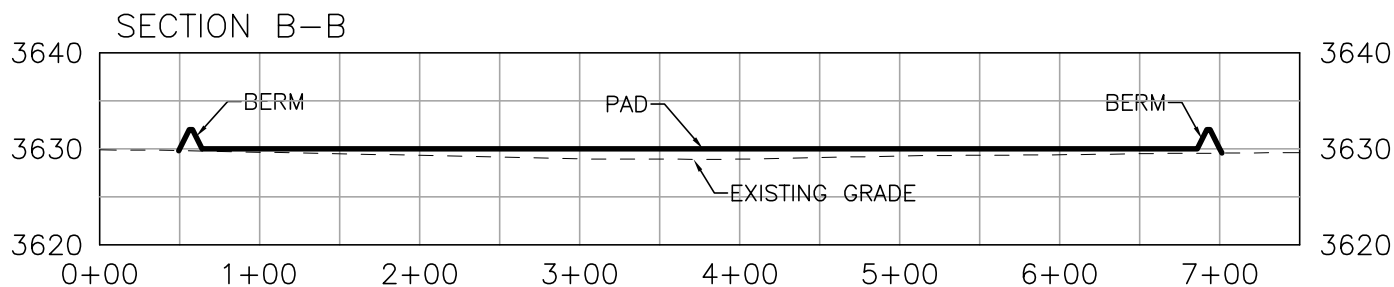
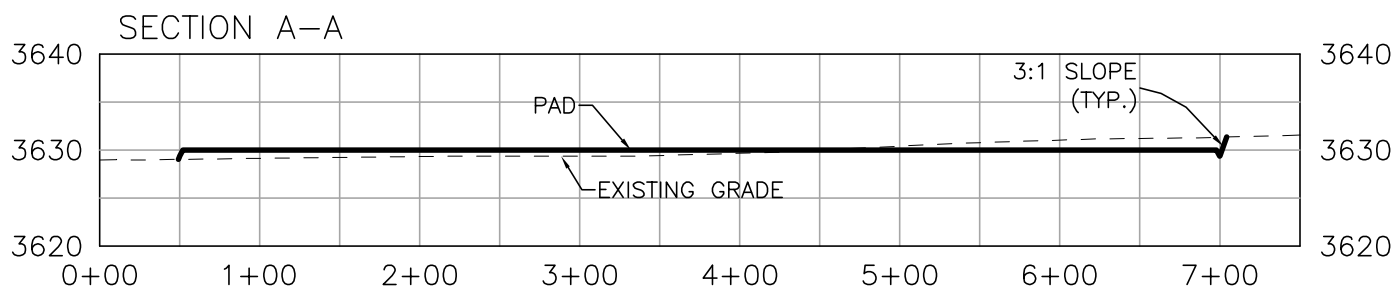


CUT	FILL	NET
279 CU. YD	7785 CU. YD	7506 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 1-2
SURVEY NO. 6942

CROSS-SECTIONS



I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL CO.
GRADING PLAN AND CROSS SECTIONS
FOR BELL LAKE UNIT SOUTH 204H
SECTION 1, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

012 60 120 240
SCALE 1" = 120' - 1" = 20' VER

CUT	FILL	NET
279 CU. YD	7785 CU. YD	7506 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

DECEMBER 22, 2020

301 SOUTH CANAL
(575) 234-3341

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SHEET 2-2
SURVEY NO. 6942

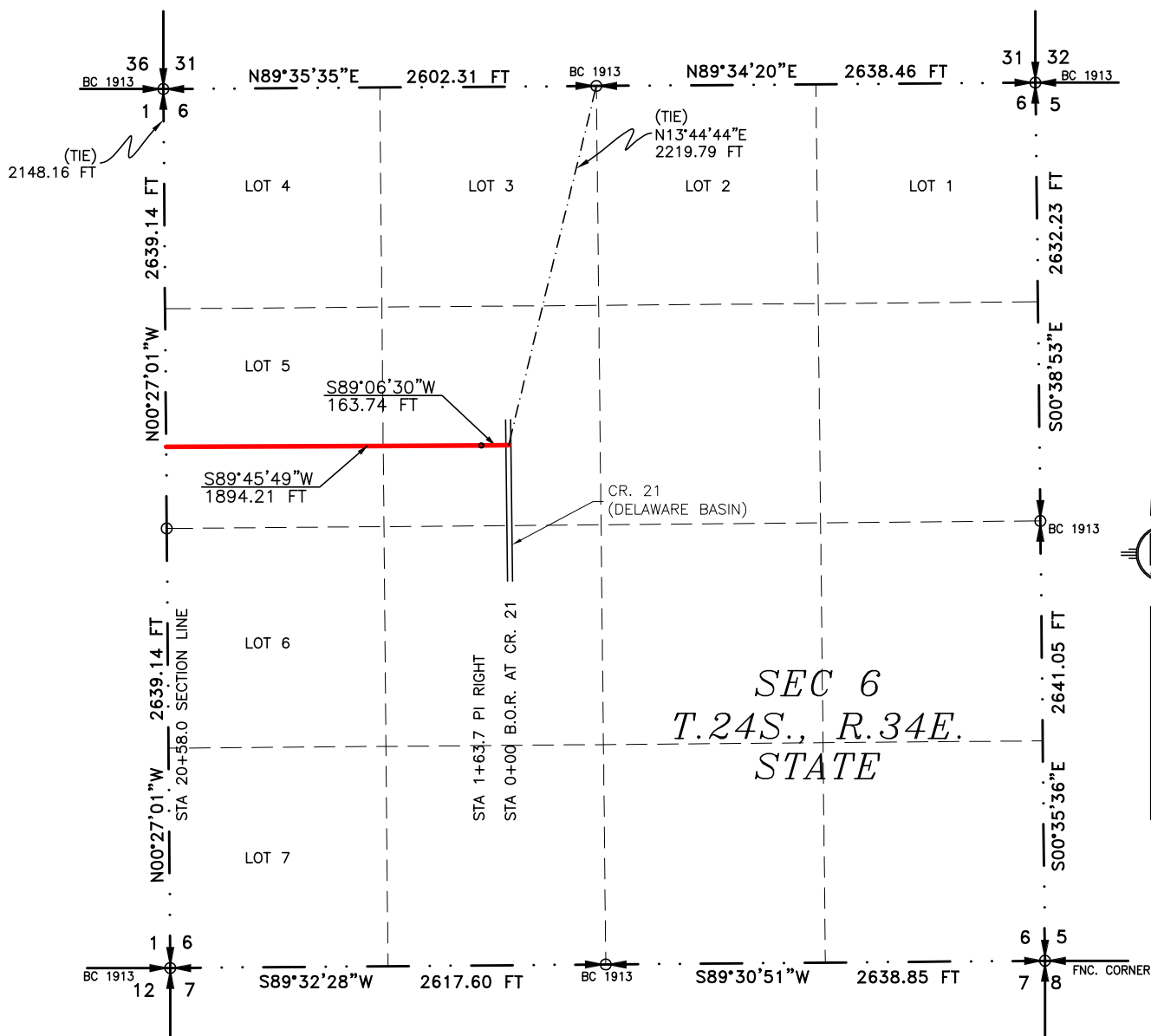


ACCESS ROAD PLAT

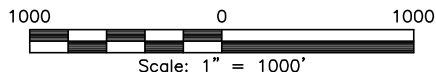
ACCESS ROAD TO THE BELL LAKE UNIT SOUTH PAD 1
(BELL LAKE UNIT SOUTH 204H, 403H, 404H)

KAISER-FRANCIS OIL CO.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 22, 2020



SEE NEXT SHEET (2-4) 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: 1-4

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 31 DAY OF DECEMBER 2020.

FILMON F. JARAMILLO, NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 6942

ACCESS ROAD PLAT

ACCESS ROAD TO THE BELL LAKE UNIT SOUTH PAD 1
(BELL LAKE UNIT SOUTH 204H, 403H, 404H)

KAISER-FRANCIS OIL CO.

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 22, 2020**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 6, TOWNSHIP 24 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 SE/4 NW/4 OF SAID SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N13°44'44"E, A DISTANCE OF 2219.79 FEET;

THENCE S89°06'30"W A DISTANCE OF 163.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S89°45'49"W A DISTANCE OF 1894.21 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N00°27'01"W, A DISTANCE OF 2148.16 FEET;

SAID STRIP OF LAND BEING 2057.95 FEET OR 124.73 RODS IN LENGTH, CONTAINING 1.417 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NW/4	753.67 L.F.	45.68 RODS	0.519 ACRES
LOT 5	1304.28 L.F.	79.05 RODS	0.898 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 31st DAY OF DECEMBER 2020.

FILIMON F. JARAMILLO P.S. 12797
301 SOUTH CANAL
(575) 234-3341
PROFESSIONAL SURVEYOR

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.

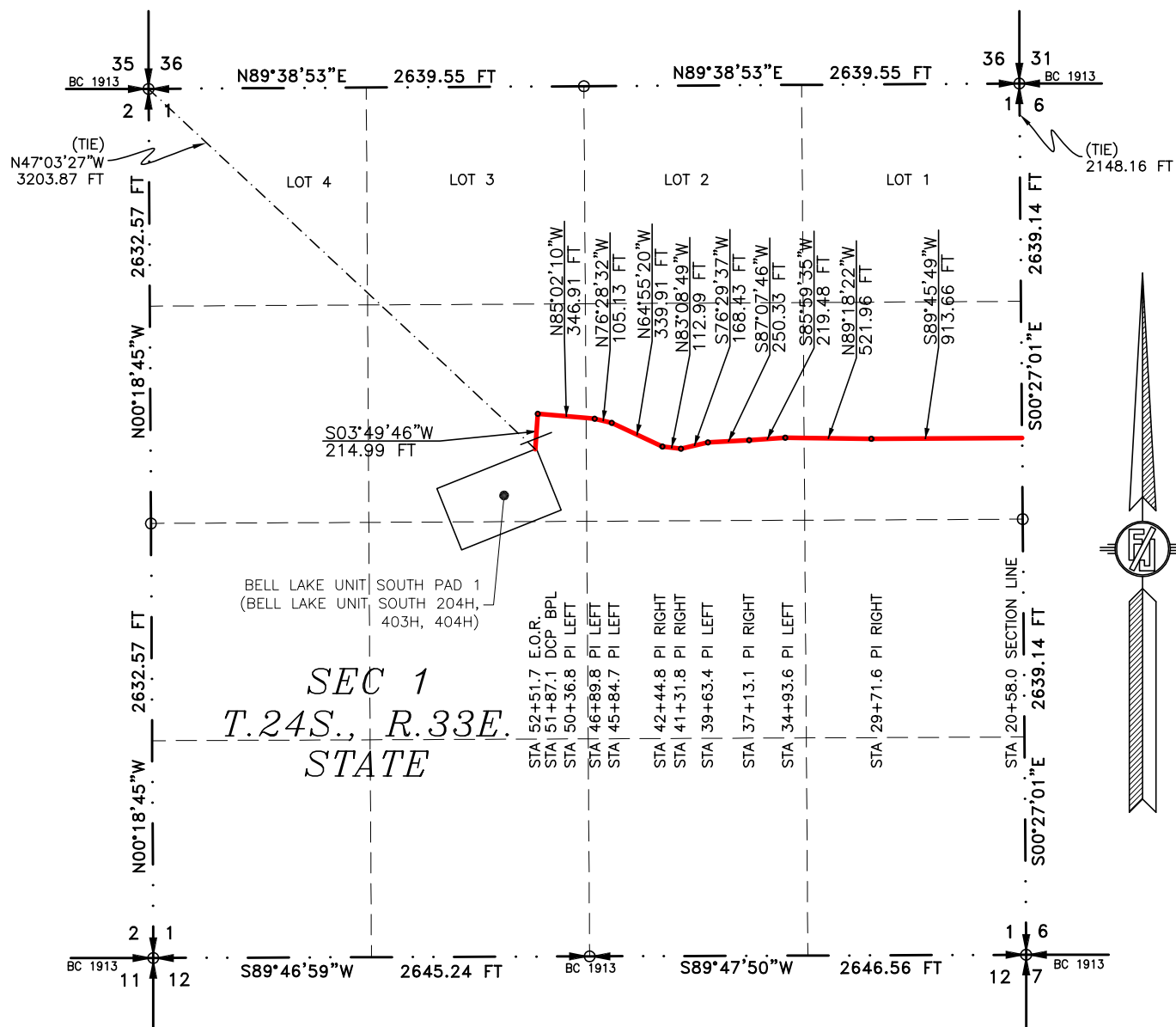
SHEET: 2-4

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 6942

ACCESS ROAD PLAT
 ACCESS ROAD TO THE BELL LAKE UNIT SOUTH PAD 1
 (BELL LAKE UNIT SOUTH 204H, 403H, 404H)

KAISER-FRANCIS OIL CO.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 DECEMBER 22, 2020



SEE NEXT SHEET (4-4) 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: 3-4

MADRON SURVEYING, INC.

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 31ST DAY OF DECEMBER 2020.

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

SURVEY NO. 6942

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
ACCESS ROAD TO THE BELL LAKE UNIT SOUTH PAD 1
(BELL LAKE UNIT SOUTH 204H, 403H, 404H)

KAISER-FRANCIS OIL CO.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 22, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 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 SE/4 NE/4 OF SAID SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N00°27'01"W, A DISTANCE OF 2148.16 FEET;

THENCE S89°45'49"W A DISTANCE OF 913.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N89°18'22"W A DISTANCE OF 521.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE S85°59'35"W A DISTANCE OF 219.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE S87°07'46"W A DISTANCE OF 250.33 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE S76°29'37"W A DISTANCE OF 168.43 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N83°08'49"W A DISTANCE OF 112.99 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N64°55'20"W A DISTANCE OF 339.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N76°28'32"W A DISTANCE OF 105.13 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N85°02'10"W A DISTANCE OF 346.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE S03°49'46"W A DISTANCE OF 214.99 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 1, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N47°03'27"W, A DISTANCE OF 3203.87 FEET;

SAID STRIP OF LAND BEING 3193.79 FEET OR 193.57 RODS IN LENGTH, CONTAINING 2.200 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NE/4	1321.28 L.F.	80.08 RODS	0.910 ACRES
SW/4 NE/4	1363.49 L.F.	82.64 RODS	0.939 ACRES
SE/4 NW/4	509.02 L.F.	30.85 RODS	0.351 ACRES

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: 4-4

MADRON SURVEYING, INC.

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 31ST DAY OF DECEMBER 2020.

FILIMON F. JARAMILLO, P.S. 12797

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

SURVEY NO. 6942

301 SOUTH CANAL
 (575) 234-3341

PROFESSIONAL



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 1-T24S-R33E

BELL LAKE UNIT S. 204H

HORIZONTAL

Plan: PLAN 3

Standard Planning Report

03 February, 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 S. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Site:	SEC 1-T24S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

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 1-T24S-R33E			
Site Position:		Northing:	453,534.52 usft	Latitude:	32.24430
From:	Map	Easting:	750,061.29 usft	Longitude:	-103.52453
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	BELL LAKE UNIT S. 204H					
Well Position	+N/-S	859.23 usft	Northing:	454,393.75 usft	Latitude:	32.24668
	+E/-W	-941.19 usft	Easting:	749,120.10 usft	Longitude:	-103.52756
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,628.50 usft	Ground Level:	3,628.50 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	01/12/21	6.58	59.94	47,554.28772518

Design	PLAN 3				
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	02/03/21			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,934.30	PLAN 3 (HORIZONTAL)	MWD	
			OWSG MWD - Standard		



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Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	10.00	71.79	2,497.47	13.60	41.34	2.00	2.00	0.00	71.79	
6,176.32	10.00	71.79	6,117.93	213.11	647.75	0.00	0.00	0.00	0.00	
6,709.65	2.00	71.79	6,647.92	230.52	700.66	1.50	-1.50	0.00	180.00	
10,519.00	2.00	71.79	10,454.94	272.07	826.95	0.00	0.00	0.00	0.00	KOP 204H
11,207.23	88.86	179.54	10,900.04	-159.75	844.93	13.00	12.62	15.66	107.78	PBHL 204H
11,707.60	88.86	179.54	10,910.00	-660.00	848.94	0.00	0.00	0.00	0.00	
11,890.10	92.51	179.54	10,907.82	-842.45	850.41	2.00	2.00	0.00	0.00	
13,208.96	92.51	179.54	10,850.06	-2,160.00	860.99	0.00	0.00	0.00	0.00	
13,423.96	88.21	179.54	10,848.71	-2,374.94	862.71	2.00	-2.00	0.00	180.00	
15,710.21	88.21	179.54	10,920.12	-4,660.00	881.06	0.00	0.00	0.00	0.00	
15,886.21	91.73	179.54	10,920.21	-4,835.97	882.47	2.00	2.00	0.00	0.00	
17,210.89	91.73	179.54	10,880.22	-6,160.00	893.10	0.00	0.00	0.00	0.00	
17,380.14	88.34	179.54	10,880.11	-6,329.22	894.46	2.00	-2.00	0.00	179.98	
18,934.30	88.34	179.54	10,925.00	-7,882.68	906.90	0.00	0.00	0.00	0.00	PBHL 204H



SB Directional Services

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Kaiser-Francis Oil Company

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Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Site:	SEC 1-T24S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Nudge 2° DLS									
2,100.00	2.00	71.79	2,099.98	0.55	1.66	-0.55	2.00	2.00	0.00
2,200.00	4.00	71.79	2,199.84	2.18	6.63	-2.18	2.00	2.00	0.00
2,300.00	6.00	71.79	2,299.45	4.90	14.91	-4.90	2.00	2.00	0.00
2,400.00	8.00	71.79	2,398.70	8.71	26.48	-8.71	2.00	2.00	0.00
2,500.00	10.00	71.79	2,497.47	13.60	41.34	-13.60	2.00	2.00	0.00
Hold 10° Inc									
2,600.00	10.00	71.79	2,595.95	19.03	57.84	-19.03	0.00	0.00	0.00
2,700.00	10.00	71.79	2,694.43	24.46	74.33	-24.46	0.00	0.00	0.00
2,800.00	10.00	71.79	2,792.91	29.88	90.83	-29.88	0.00	0.00	0.00
2,900.00	10.00	71.79	2,891.39	35.31	107.32	-35.31	0.00	0.00	0.00
3,000.00	10.00	71.79	2,989.87	40.74	123.82	-40.74	0.00	0.00	0.00
3,100.00	10.00	71.79	3,088.35	46.16	140.31	-46.16	0.00	0.00	0.00
3,200.00	10.00	71.79	3,186.83	51.59	156.81	-51.59	0.00	0.00	0.00
3,300.00	10.00	71.79	3,285.31	57.02	173.30	-57.02	0.00	0.00	0.00
3,400.00	10.00	71.79	3,383.79	62.44	189.80	-62.44	0.00	0.00	0.00
3,500.00	10.00	71.79	3,482.27	67.87	206.29	-67.87	0.00	0.00	0.00
3,600.00	10.00	71.79	3,580.75	73.30	222.79	-73.30	0.00	0.00	0.00
3,700.00	10.00	71.79	3,679.23	78.72	239.28	-78.72	0.00	0.00	0.00
3,800.00	10.00	71.79	3,777.72	84.15	255.78	-84.15	0.00	0.00	0.00
3,900.00	10.00	71.79	3,876.20	89.58	272.27	-89.58	0.00	0.00	0.00
4,000.00	10.00	71.79	3,974.68	95.01	288.77	-95.01	0.00	0.00	0.00
4,100.00	10.00	71.79	4,073.16	100.43	305.26	-100.43	0.00	0.00	0.00
4,200.00	10.00	71.79	4,171.64	105.86	321.76	-105.86	0.00	0.00	0.00
4,300.00	10.00	71.79	4,270.12	111.29	338.25	-111.29	0.00	0.00	0.00
4,400.00	10.00	71.79	4,368.60	116.71	354.75	-116.71	0.00	0.00	0.00
4,500.00	10.00	71.79	4,467.08	122.14	371.24	-122.14	0.00	0.00	0.00
4,600.00	10.00	71.79	4,565.56	127.57	387.74	-127.57	0.00	0.00	0.00
4,700.00	10.00	71.79	4,664.04	132.99	404.23	-132.99	0.00	0.00	0.00
4,800.00	10.00	71.79	4,762.52	138.42	420.73	-138.42	0.00	0.00	0.00
4,900.00	10.00	71.79	4,861.00	143.85	437.22	-143.85	0.00	0.00	0.00
5,000.00	10.00	71.79	4,959.48	149.28	453.72	-149.28	0.00	0.00	0.00
5,100.00	10.00	71.79	5,057.97	154.70	470.21	-154.70	0.00	0.00	0.00



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Wellbore:	HORIZONTAL		
Design:	PLAN 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	10.00	71.79	5,156.45	160.13	486.71	-160.13	0.00	0.00	0.00
5,300.00	10.00	71.79	5,254.93	165.56	503.20	-165.56	0.00	0.00	0.00
5,400.00	10.00	71.79	5,353.41	170.98	519.70	-170.98	0.00	0.00	0.00
5,500.00	10.00	71.79	5,451.89	176.41	536.19	-176.41	0.00	0.00	0.00
5,600.00	10.00	71.79	5,550.37	181.84	552.69	-181.84	0.00	0.00	0.00
5,700.00	10.00	71.79	5,648.85	187.26	569.18	-187.26	0.00	0.00	0.00
5,800.00	10.00	71.79	5,747.33	192.69	585.68	-192.69	0.00	0.00	0.00
5,900.00	10.00	71.79	5,845.81	198.12	602.17	-198.12	0.00	0.00	0.00
6,000.00	10.00	71.79	5,944.29	203.54	618.67	-203.54	0.00	0.00	0.00
6,100.00	10.00	71.79	6,042.77	208.97	635.16	-208.97	0.00	0.00	0.00
6,176.32	10.00	71.79	6,117.93	213.11	647.75	-213.11	0.00	0.00	0.00
Start Drop 1.5° DLS									
6,200.00	9.64	71.79	6,141.27	214.38	651.59	-214.38	1.50	-1.50	0.00
6,300.00	8.14	71.79	6,240.06	219.21	666.28	-219.21	1.50	-1.50	0.00
6,400.00	6.64	71.79	6,339.23	223.23	678.50	-223.23	1.50	-1.50	0.00
6,500.00	5.14	71.79	6,438.70	226.44	688.26	-226.44	1.50	-1.50	0.00
6,600.00	3.64	71.79	6,538.40	228.83	695.54	-228.83	1.50	-1.50	0.00
6,709.65	2.00	71.79	6,647.91	230.52	700.66	-230.52	1.50	-1.50	0.00
Hold 2° Inc									
6,800.00	2.00	71.79	6,738.21	231.51	703.66	-231.51	0.00	0.00	0.00
6,900.00	2.00	71.79	6,838.15	232.60	706.98	-232.60	0.00	0.00	0.00
7,000.00	2.00	71.79	6,938.08	233.69	710.29	-233.69	0.00	0.00	0.00
7,100.00	2.00	71.79	7,038.02	234.78	713.61	-234.78	0.00	0.00	0.00
7,200.00	2.00	71.79	7,137.96	235.87	716.92	-235.87	0.00	0.00	0.00
7,300.00	2.00	71.79	7,237.90	236.96	720.24	-236.96	0.00	0.00	0.00
7,400.00	2.00	71.79	7,337.84	238.05	723.55	-238.05	0.00	0.00	0.00
7,500.00	2.00	71.79	7,437.78	239.14	726.87	-239.14	0.00	0.00	0.00
7,600.00	2.00	71.79	7,537.72	240.23	730.18	-240.23	0.00	0.00	0.00
7,700.00	2.00	71.79	7,637.66	241.32	733.50	-241.32	0.00	0.00	0.00
7,800.00	2.00	71.79	7,737.60	242.41	736.81	-242.41	0.00	0.00	0.00
7,900.00	2.00	71.79	7,837.54	243.50	740.13	-243.50	0.00	0.00	0.00
8,000.00	2.00	71.79	7,937.48	244.60	743.44	-244.60	0.00	0.00	0.00
8,100.00	2.00	71.79	8,037.41	245.69	746.76	-245.69	0.00	0.00	0.00
8,200.00	2.00	71.79	8,137.35	246.78	750.07	-246.78	0.00	0.00	0.00
8,300.00	2.00	71.79	8,237.29	247.87	753.39	-247.87	0.00	0.00	0.00
8,400.00	2.00	71.79	8,337.23	248.96	756.70	-248.96	0.00	0.00	0.00
8,500.00	2.00	71.79	8,437.17	250.05	760.02	-250.05	0.00	0.00	0.00
8,600.00	2.00	71.79	8,537.11	251.14	763.33	-251.14	0.00	0.00	0.00
8,700.00	2.00	71.79	8,637.05	252.23	766.65	-252.23	0.00	0.00	0.00
8,800.00	2.00	71.79	8,736.99	253.32	769.96	-253.32	0.00	0.00	0.00
8,900.00	2.00	71.79	8,836.93	254.41	773.28	-254.41	0.00	0.00	0.00
9,000.00	2.00	71.79	8,936.87	255.50	776.59	-255.50	0.00	0.00	0.00
9,100.00	2.00	71.79	9,036.81	256.59	779.91	-256.59	0.00	0.00	0.00
9,200.00	2.00	71.79	9,136.74	257.68	783.22	-257.68	0.00	0.00	0.00
9,300.00	2.00	71.79	9,236.68	258.77	786.54	-258.77	0.00	0.00	0.00
9,400.00	2.00	71.79	9,336.62	259.87	789.85	-259.87	0.00	0.00	0.00
9,500.00	2.00	71.79	9,436.56	260.96	793.17	-260.96	0.00	0.00	0.00
9,600.00	2.00	71.79	9,536.50	262.05	796.48	-262.05	0.00	0.00	0.00
9,700.00	2.00	71.79	9,636.44	263.14	799.80	-263.14	0.00	0.00	0.00
9,800.00	2.00	71.79	9,736.38	264.23	803.11	-264.23	0.00	0.00	0.00
9,900.00	2.00	71.79	9,836.32	265.32	806.43	-265.32	0.00	0.00	0.00
10,000.00	2.00	71.79	9,936.26	266.41	809.74	-266.41	0.00	0.00	0.00
10,100.00	2.00	71.79	10,036.20	267.50	813.06	-267.50	0.00	0.00	0.00
10,200.00	2.00	71.79	10,136.14	268.59	816.37	-268.59	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 S. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Site:	SEC 1-T24S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

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)	
10,300.00	2.00	71.79	10,236.07	269.68	819.69	-269.68	0.00	0.00	0.00	
10,400.00	2.00	71.79	10,336.01	270.77	823.01	-270.77	0.00	0.00	0.00	
10,500.00	2.00	71.79	10,435.95	271.86	826.32	-271.86	0.00	0.00	0.00	
10,519.00	2.00	71.79	10,454.94	272.07	826.95	-272.07	0.00	0.00	0.00	
KOP 13° DLS - KOP 204H										
10,525.00	1.91	94.66	10,460.94	272.09	827.15	-272.09	13.00	-1.47	381.06	
10,550.00	3.91	150.49	10,485.91	271.32	827.99	-271.32	13.00	8.01	223.35	
10,575.00	6.93	163.71	10,510.79	269.13	828.83	-269.13	13.00	12.09	52.87	
10,600.00	10.10	168.82	10,535.52	265.53	829.68	-265.53	13.00	12.66	20.42	
10,625.00	13.30	171.49	10,559.99	260.53	830.53	-260.53	13.00	12.82	10.71	
10,650.00	16.53	173.14	10,584.15	254.15	831.38	-254.15	13.00	12.89	6.60	
10,675.00	19.76	174.27	10,607.90	246.42	832.23	-246.42	13.00	12.93	4.49	
10,700.00	22.99	175.08	10,631.18	237.35	833.07	-237.35	13.00	12.95	3.27	
10,725.00	26.23	175.71	10,653.90	226.97	833.90	-226.97	13.00	12.96	2.50	
10,750.00	29.48	176.21	10,676.01	215.32	834.72	-215.32	13.00	12.97	1.99	
10,775.00	32.72	176.61	10,697.41	202.43	835.53	-202.43	13.00	12.97	1.62	
10,800.00	35.96	176.95	10,718.05	188.35	836.32	-188.35	13.00	12.98	1.36	
10,825.00	39.21	177.24	10,737.86	173.13	837.09	-173.13	13.00	12.98	1.16	
10,850.00	42.45	177.50	10,756.77	156.80	837.84	-156.80	13.00	12.98	1.01	
10,875.00	45.70	177.72	10,774.73	139.43	838.56	-139.43	13.00	12.99	0.89	
10,900.00	48.95	177.92	10,791.67	121.06	839.26	-121.06	13.00	12.99	0.80	
10,925.00	52.19	178.10	10,807.55	101.77	839.93	-101.77	13.00	12.99	0.72	
10,950.00	55.44	178.27	10,822.31	81.60	840.57	-81.60	13.00	12.99	0.66	
10,975.00	58.69	178.42	10,835.90	60.63	841.17	-60.63	13.00	12.99	0.61	
11,000.00	61.94	178.56	10,848.28	38.92	841.75	-38.92	13.00	12.99	0.57	
11,025.00	65.18	178.70	10,859.41	16.55	842.28	-16.55	13.00	12.99	0.54	
11,050.00	68.43	178.83	10,869.25	-6.42	842.78	6.42	13.00	12.99	0.51	
11,075.00	71.68	178.95	10,877.78	-29.92	843.23	29.92	13.00	12.99	0.49	
11,100.00	74.93	179.07	10,884.96	-53.86	843.65	53.86	13.00	12.99	0.47	
11,125.00	78.18	179.18	10,890.77	-78.16	844.02	78.16	13.00	12.99	0.46	
11,150.00	81.42	179.29	10,895.20	-102.76	844.35	102.76	13.00	12.99	0.45	
11,175.00	84.67	179.40	10,898.23	-127.58	844.63	127.58	13.00	12.99	0.44	
11,200.00	87.92	179.51	10,899.84	-152.52	844.87	152.52	13.00	12.99	0.43	
11,207.23	88.86	179.54	10,900.04	-159.75	844.93	159.75	12.99	12.99	0.43	
LP 11207.23' MD & 10900.04' TVD - FTP 204H										
11,300.00	88.86	179.54	10,901.89	-252.49	845.67	252.49	0.00	0.00	0.00	
11,400.00	88.86	179.54	10,903.88	-352.47	846.48	352.47	0.00	0.00	0.00	
11,500.00	88.86	179.54	10,905.87	-452.45	847.28	452.45	0.00	0.00	0.00	
11,600.00	88.86	179.54	10,907.86	-552.42	848.08	552.42	0.00	0.00	0.00	
11,707.60	88.86	179.54	10,910.00	-660.00	848.94	660.00	0.00	0.00	0.00	
500' FTP										
11,800.00	90.71	179.54	10,910.35	-752.39	849.69	752.39	2.00	2.00	0.00	
11,890.10	92.51	179.54	10,907.82	-842.45	850.41	842.45	2.00	2.00	0.00	
11,900.00	92.51	179.54	10,907.38	-852.34	850.49	852.34	0.00	0.00	0.00	
12,000.00	92.51	179.54	10,903.00	-952.24	851.29	952.24	0.00	0.00	0.00	
12,100.00	92.51	179.54	10,898.62	-1,052.14	852.09	1,052.14	0.00	0.00	0.00	
12,200.00	92.51	179.54	10,894.25	-1,152.04	852.89	1,152.04	0.00	0.00	0.00	
12,300.00	92.51	179.54	10,889.87	-1,251.94	853.70	1,251.94	0.00	0.00	0.00	
12,400.00	92.51	179.54	10,885.49	-1,351.84	854.50	1,351.84	0.00	0.00	0.00	
12,500.00	92.51	179.54	10,881.11	-1,451.75	855.30	1,451.75	0.00	0.00	0.00	
12,600.00	92.51	179.54	10,876.73	-1,551.65	856.10	1,551.65	0.00	0.00	0.00	
12,700.00	92.51	179.54	10,872.35	-1,651.55	856.90	1,651.55	0.00	0.00	0.00	
12,800.00	92.51	179.54	10,867.97	-1,751.45	857.71	1,751.45	0.00	0.00	0.00	



SB Directional Services

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Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Site:	SEC 1-T24S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.00	92.51	179.54	10,863.59	-1,851.35	858.51	1,851.35	0.00	0.00	0.00
13,000.00	92.51	179.54	10,859.21	-1,951.25	859.31	1,951.25	0.00	0.00	0.00
13,100.00	92.51	179.54	10,854.83	-2,051.15	860.11	2,051.15	0.00	0.00	0.00
13,208.96	92.51	179.54	10,850.06	-2,160.00	860.99	2,160.00	0.00	0.00	0.00
2000' FTP									
13,300.00	90.69	179.54	10,847.52	-2,251.00	861.72	2,251.00	2.00	-2.00	0.00
13,400.00	88.69	179.54	10,848.06	-2,350.99	862.52	2,350.99	2.00	-2.00	0.00
13,423.96	88.21	179.54	10,848.71	-2,374.94	862.71	2,374.94	2.00	-2.00	0.00
13,500.00	88.21	179.54	10,851.08	-2,450.94	863.32	2,450.94	0.00	0.00	0.00
13,600.00	88.21	179.54	10,854.21	-2,550.89	864.12	2,550.89	0.00	0.00	0.00
13,700.00	88.21	179.54	10,857.33	-2,650.84	864.93	2,650.84	0.00	0.00	0.00
13,800.00	88.21	179.54	10,860.45	-2,750.79	865.73	2,750.79	0.00	0.00	0.00
13,900.00	88.21	179.54	10,863.58	-2,850.73	866.53	2,850.73	0.00	0.00	0.00
14,000.00	88.21	179.54	10,866.70	-2,950.68	867.33	2,950.68	0.00	0.00	0.00
14,100.00	88.21	179.54	10,869.83	-3,050.63	868.14	3,050.63	0.00	0.00	0.00
14,200.00	88.21	179.54	10,872.95	-3,150.58	868.94	3,150.58	0.00	0.00	0.00
14,300.00	88.21	179.54	10,876.07	-3,250.53	869.74	3,250.53	0.00	0.00	0.00
14,400.00	88.21	179.54	10,879.20	-3,350.47	870.54	3,350.47	0.00	0.00	0.00
14,500.00	88.21	179.54	10,882.32	-3,450.42	871.35	3,450.42	0.00	0.00	0.00
14,600.00	88.21	179.54	10,885.44	-3,550.37	872.15	3,550.37	0.00	0.00	0.00
14,700.00	88.21	179.54	10,888.57	-3,650.32	872.95	3,650.32	0.00	0.00	0.00
14,800.00	88.21	179.54	10,891.69	-3,750.27	873.75	3,750.27	0.00	0.00	0.00
14,900.00	88.21	179.54	10,894.81	-3,850.21	874.56	3,850.21	0.00	0.00	0.00
15,000.00	88.21	179.54	10,897.94	-3,950.16	875.36	3,950.16	0.00	0.00	0.00
15,100.00	88.21	179.54	10,901.06	-4,050.11	876.16	4,050.11	0.00	0.00	0.00
15,200.00	88.21	179.54	10,904.19	-4,150.06	876.96	4,150.06	0.00	0.00	0.00
15,300.00	88.21	179.54	10,907.31	-4,250.01	877.77	4,250.01	0.00	0.00	0.00
15,400.00	88.21	179.54	10,910.43	-4,349.95	878.57	4,349.95	0.00	0.00	0.00
15,500.00	88.21	179.54	10,913.56	-4,449.90	879.37	4,449.90	0.00	0.00	0.00
15,600.00	88.21	179.54	10,916.68	-4,549.85	880.17	4,549.85	0.00	0.00	0.00
15,700.00	88.21	179.54	10,919.80	-4,649.80	880.98	4,649.80	0.00	0.00	0.00
15,710.21	88.21	179.54	10,920.12	-4,660.00	881.06	4,660.00	0.00	0.00	0.00
4500' FTP									
15,800.00	90.01	179.54	10,921.52	-4,749.77	881.78	4,749.77	2.00	2.00	0.00
15,886.21	91.73	179.54	10,920.21	-4,835.97	882.47	4,835.97	2.00	2.00	0.00
15,900.00	91.73	179.54	10,919.80	-4,849.75	882.58	4,849.75	0.00	0.00	0.00
16,000.00	91.73	179.54	10,916.78	-4,949.70	883.38	4,949.70	0.00	0.00	0.00
16,100.00	91.73	179.54	10,913.76	-5,049.65	884.19	5,049.65	0.00	0.00	0.00
16,200.00	91.73	179.54	10,910.74	-5,149.61	884.99	5,149.61	0.00	0.00	0.00
16,300.00	91.73	179.54	10,907.72	-5,249.56	885.79	5,249.56	0.00	0.00	0.00
16,400.00	91.73	179.54	10,904.70	-5,349.51	886.59	5,349.51	0.00	0.00	0.00
16,500.00	91.73	179.54	10,901.68	-5,449.46	887.40	5,449.46	0.00	0.00	0.00
16,600.00	91.73	179.54	10,898.67	-5,549.41	888.20	5,549.41	0.00	0.00	0.00
16,700.00	91.73	179.54	10,895.65	-5,649.36	889.00	5,649.36	0.00	0.00	0.00
16,800.00	91.73	179.54	10,892.63	-5,749.31	889.80	5,749.31	0.00	0.00	0.00
16,900.00	91.73	179.54	10,889.61	-5,849.26	890.61	5,849.26	0.00	0.00	0.00
17,000.00	91.73	179.54	10,886.59	-5,949.21	891.41	5,949.21	0.00	0.00	0.00
17,100.00	91.73	179.54	10,883.57	-6,049.17	892.21	6,049.17	0.00	0.00	0.00
17,200.00	91.73	179.54	10,880.55	-6,149.12	893.01	6,149.12	0.00	0.00	0.00
17,210.89	91.73	179.54	10,880.22	-6,160.00	893.10	6,160.00	0.00	0.00	0.00
6000' FTP									
17,300.00	89.95	179.54	10,878.92	-6,249.10	893.82	6,249.10	2.00	-2.00	0.00
17,380.14	88.34	179.54	10,880.11	-6,329.22	894.46	6,329.22	2.00	-2.00	0.00



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Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3652.00usft (CAC 170)
Site:	SEC 1-T24S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT S. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 3		

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)
17,400.00	88.34	179.54	10,880.69	-6,349.07	894.62	6,349.07	0.00	0.00	0.00
17,500.00	88.34	179.54	10,883.57	-6,449.03	895.42	6,449.03	0.00	0.00	0.00
17,600.00	88.34	179.54	10,886.46	-6,548.98	896.22	6,548.98	0.00	0.00	0.00
17,700.00	88.34	179.54	10,889.35	-6,648.94	897.02	6,648.94	0.00	0.00	0.00
17,800.00	88.34	179.54	10,892.24	-6,748.89	897.82	6,748.89	0.00	0.00	0.00
17,900.00	88.34	179.54	10,895.13	-6,848.85	898.62	6,848.85	0.00	0.00	0.00
18,000.00	88.34	179.54	10,898.02	-6,948.80	899.42	6,948.80	0.00	0.00	0.00
18,100.00	88.34	179.54	10,900.90	-7,048.76	900.22	7,048.76	0.00	0.00	0.00
18,200.00	88.34	179.54	10,903.79	-7,148.71	901.02	7,148.71	0.00	0.00	0.00
18,300.00	88.34	179.54	10,906.68	-7,248.67	901.82	7,248.67	0.00	0.00	0.00
18,400.00	88.34	179.54	10,909.57	-7,348.62	902.62	7,348.62	0.00	0.00	0.00
18,500.00	88.34	179.54	10,912.46	-7,448.58	903.42	7,448.58	0.00	0.00	0.00
18,600.00	88.34	179.54	10,915.34	-7,548.53	904.22	7,548.53	0.00	0.00	0.00
18,700.00	88.34	179.54	10,918.23	-7,648.49	905.02	7,648.49	0.00	0.00	0.00
18,800.00	88.34	179.54	10,921.12	-7,748.44	905.82	7,748.44	0.00	0.00	0.00
18,900.00	88.34	179.54	10,924.01	-7,848.40	906.63	7,848.40	0.00	0.00	0.00
18,934.30	88.34	179.54	10,925.00	-7,882.68	906.90	7,882.68	0.00	0.00	0.00
PBHL 18934.30' MD & 10925.00' TVD - PBHL 204H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP 204H - hit/miss target - Shape - Point	0.00	0.01	10,454.94	272.07	826.95	454,665.82	749,947.05	32.24741	-103.52487
FTP 204H - plan misses target center by 0.04usft at 11207.23usft MD (10900.04 TVD, -159.75 N, 844.93 E) - Point	0.00	0.00	10,900.00	-159.75	844.93	454,234.00	749,965.03	32.24622	-103.52483
PBHL 204H - plan hits target center - Point	0.00	0.00	10,925.00	-7,882.68	906.90	446,511.07	750,027.00	32.22499	-103.52481

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Start Nudge 2° DLS
2,500.00	2,497.47	13.60	41.34	Hold 10° Inc
6,176.32	6,117.93	213.11	647.75	Start Drop 1.5° DLS
6,709.65	6,647.91	230.52	700.66	Hold 2° Inc
10,519.00	10,454.94	272.07	826.95	KOP 13° DLS
11,207.23	10,900.04	-159.75	844.93	LP 11207.23' MD & 10900.04' TVD
11,707.60	10,910.00	-660.00	848.94	500' FTP
13,208.96	10,850.06	-2,160.00	860.99	2000' FTP
15,710.21	10,920.12	-4,660.00	881.06	4500' FTP
17,210.89	10,880.22	-6,160.00	893.10	6000' FTP
18,934.30	10,925.00	-7,882.68	906.90	PBHL 18934.30' MD & 10925.00' 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 146381

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 146381
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/29/2022