

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R33E / SEC 1 / SWNE / 32.335777 / -103.5246898	County or Parish/State: LEA / NM
Well Number: 204H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0066438, NMLC066438	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002547837	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Notice of Intent

Sundry ID: 1519323

Type of Submission: Notice of Intent	Type of Action: Deepen Well
Date Sundry Submitted: 03/24/2021	Time Sundry Submitted: 09:10
Date proposed operation will begin: 03/30/2021	

Procedure Description: Kaiser-Francis Oil Company request to change the targeted formation to from the Bone Spring pool to the Wolfcamp pool. A sundry has been submitted to request to change the casing design to a four string Wolfcamp design. Pool: OJo Chiso; Wolfcamp Southwest pool 98265

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- BELL_LAKE_UNIT_N._204H_PLAN_1_20210324090939.pdf
- BELL_LAKE_UNIT_N._204H_P1_PLOT_20210324090938.pdf

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R33E / SEC 1 / SWNE / 32.335777 / -103.5246898	County or Parish/State: LEA / NM
Well Number: 204H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0066438, NMLC066438	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002547837	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Conditions of Approval

Specialist Review

BELL_LAKE_UNIT_NORTH_204H_APD_Calculations_Sundry_20210325132429.pdf

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: MAR 24, 2021 09:09 AM
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: RACHEL O IJABIKEN	BLM POC Title: Engineer
BLM POC Phone: 5752346256	BLM POC Email Address: RIJABIKEN@BLM.GOV
Disposition: Approved	Disposition Date: 03/25/2021
Signature: RACHEL IJABIKEN PETROLEUM ENGINEER BLM-CFO	

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 30-025-47837	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 204H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3518.8

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	1	23 S	33 E		1900	NORTH	1870	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
N	12	23 S	33 E		330	SOUTH	2290	EAST	LEA
¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14602						

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.

NW CORNER SEC. 1 LAT. = 32.3409374°N LONG. = 103.5346038°W NMSP EAST (FT) N = 488684.86 E = 788017.01 W/4 CORNER SEC. 1 LAT. = 32.3336804°N LONG. = 103.5346354°W NMSP EAST (FT) N = 486044.69 E = 788026.92 SECTION CORNER LAT. = 32.3264324°N LONG. = 103.5346254°W NMSP EAST (FT) N = 483407.85 E = 788049.66 W/4 CORNER SEC. 12 SCALED SW CORNER SEC. 12 LAT. = 32.3119169°N LONG. = 103.5346197°W NMSP EAST (FT) N = 478127.09 E = 788090.81		N89°42'53"E 2641.58 FT L4 L3 N/4 CORNER SEC. 1 SCALED 1870' BELL LAKE UNIT NORTH 204H ELEV. = 3518.8' LAT. = 32.3357770°N (NAD83) LONG. = 103.5246898°W NMSP EAST (FT) N = 486830.45 E = 791093.10 SEC. 1 FTP FIRST TAKE POINT 2600' FSL, 2260' FEL LAT. = 32.3335534°N LONG. = 103.5248200°W QUARTER CORNER SCALED N89°44'15"E 2644.54 FT N89°44'15"E 2644.54 FT LATITUDE AND LONGITUDE VALUES ARE NAD 83 STATE PLANE VALUES ARE NMSP EAST GRID SEC. 12 BOTTOM OF HOLE LAT. = 32.3128029°N LONG. = 103.5249232°W NMSP EAST (FT) N = 478471.89 E = 791084.06 S/4 CORNER SEC. 12 SCALED 330' 330' 2290' S89°42'57"W 2643.11 FT S89°42'57"W 2643.11 FT		NE CORNER SEC. 1 LAT. = 32.3409003°N LONG. = 103.5175014°W NMSP EAST (FT) N = 488711.17 E = 793299.16 E/4 CORNER SEC. 1 LAT. = 32.3336453°N LONG. = 103.5175046°W NMSP EAST (FT) N = 486071.76 E = 793318.27 SECTION CORNER LAT. = 32.3263895°N LONG. = 103.5175066°W NMSP EAST (FT) N = 483432.09 E = 793337.75 E/4 CORNER SEC. 12 SCALED SE CORNER SEC. 12 LAT. = 32.3118795°N LONG. = 103.5175128°W NMSP EAST (FT) N = 478153.30 E = 793376.02		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 10/5/22 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. OCTOBER 30, 2019 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number: 12797		

Intent ☒ As Drilled ☐

API # 30-025-47837		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: BELL LAKE UNIT NORTH	Well Number 204H

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 1	Township 23S	Range 33E	Lot	Feet 2600	From N/S SOUTH	Feet 2260	From E/W EAST	County LEA
Latitude 32.3335534					Longitude 103.5248200				NAD 83

Last Take Point (LTP)

UL O	Section 12	Township 23S	Range 33E	Lot	Feet 330	From N/S SOUTH	Feet 2290	From E/W EAST	County LEA
Latitude 32.3128029					Longitude 103.5249232				NAD 83

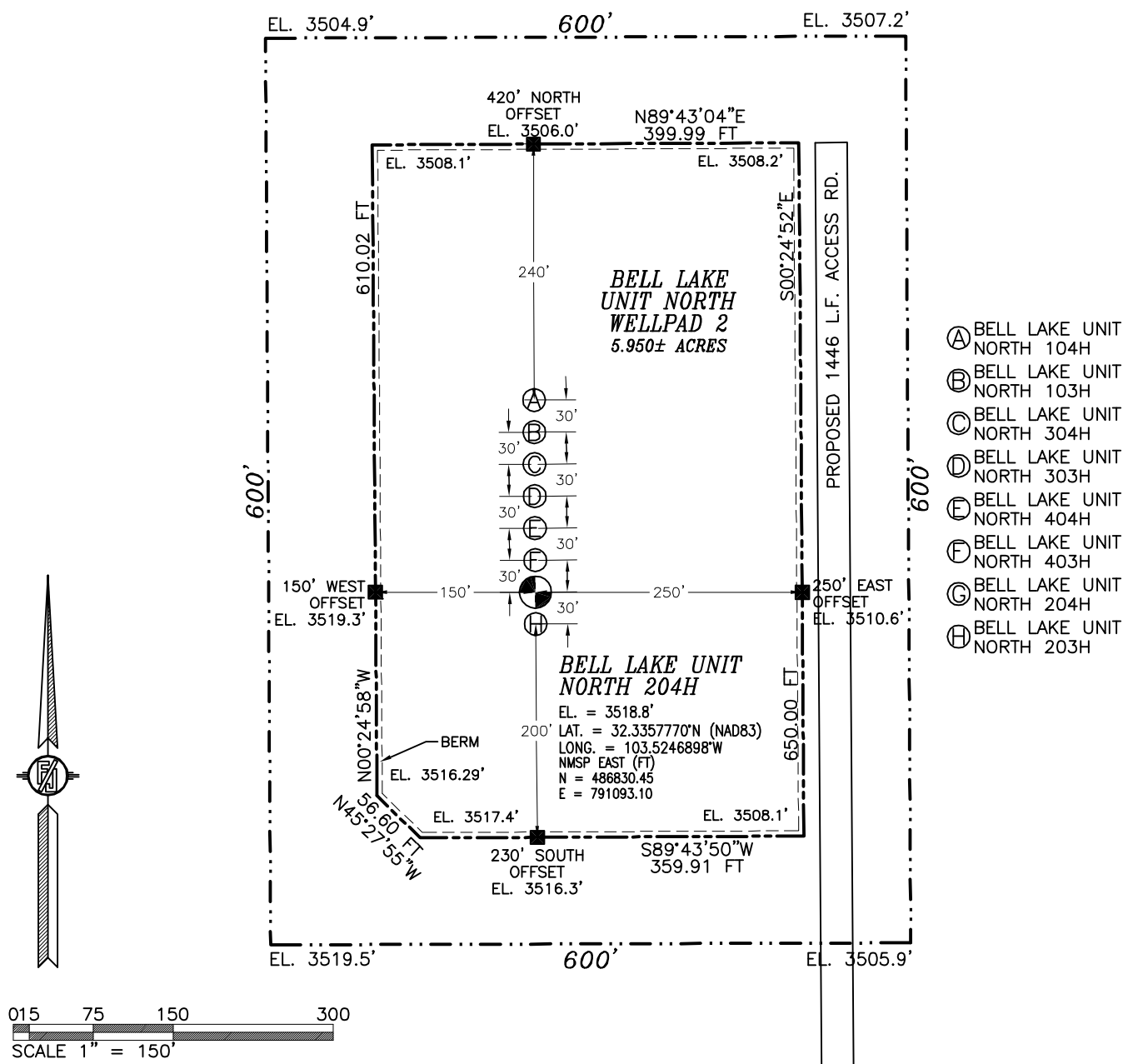
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

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

API # 30-025-44693		
Operator Name: Kaiser-Francis Oil Company	Property Name: Bell Lake Unit North	Well Number 401H

KZ 06/29/2018

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY. 128 & CR. 21
(DELAWARE BASIN ROAD) GO NORTH ON CR. 21 APPROX. 8.1
MILES WHERE ROAD TURNS RIGHT (EAST) CONTINUE TO THE
SECOND LEASE ROAD (KAISER-FRANCIS SIGNS), TURN LEFT (NORTH)
GO 0.4 MILES ROAD TURNS LEFT (WEST), GO WEST APPROX. 1.5
MILES TO A ROAD LATH ON RIGHT, TURN RIGHT (NORTH) AND
FOLLOW ROAD LATHS APPROX. 797' TO THE SOUTHEAST PAD
CORNER FOR THIS LOCATION.

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 THIS SURVEY AND TEAM MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

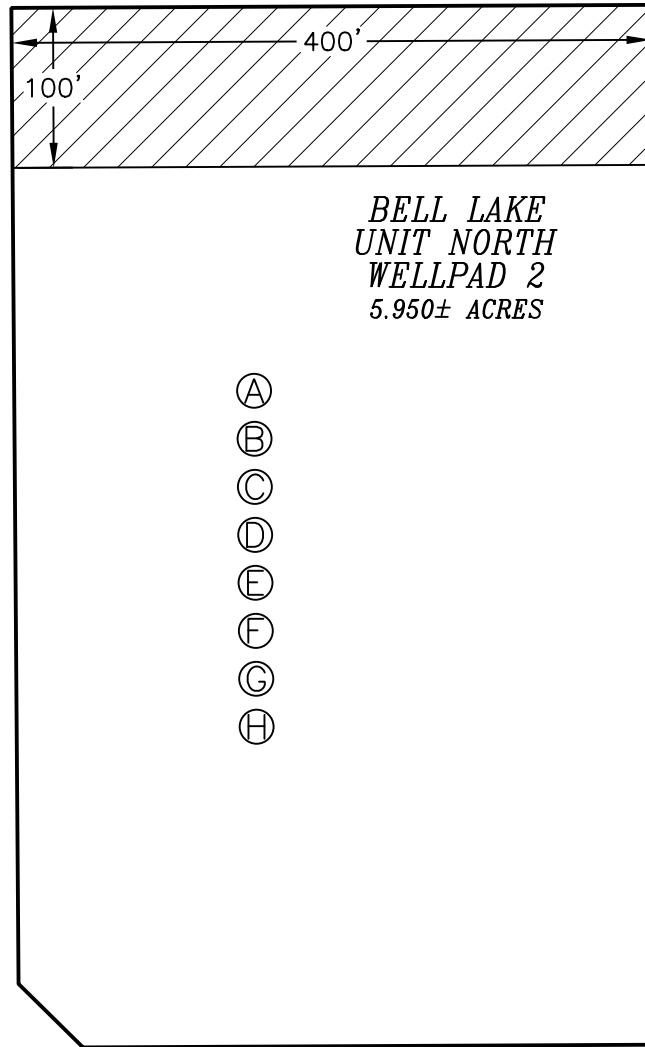
SURVEY NO. 7623

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



 DENOTES
RECLAMATION AREA
2.269± ACRES RECLAMATION AREA

- Ⓐ BELL LAKE UNIT NORTH 104H
- Ⓑ BELL LAKE UNIT NORTH 103H
- Ⓒ BELL LAKE UNIT NORTH 304H
- Ⓓ BELL LAKE UNIT NORTH 303H
- Ⓔ BELL LAKE UNIT NORTH 404H
- Ⓕ BELL LAKE UNIT NORTH 403H
- Ⓖ BELL LAKE UNIT NORTH 204H
- Ⓗ BELL LAKE UNIT NORTH 203H

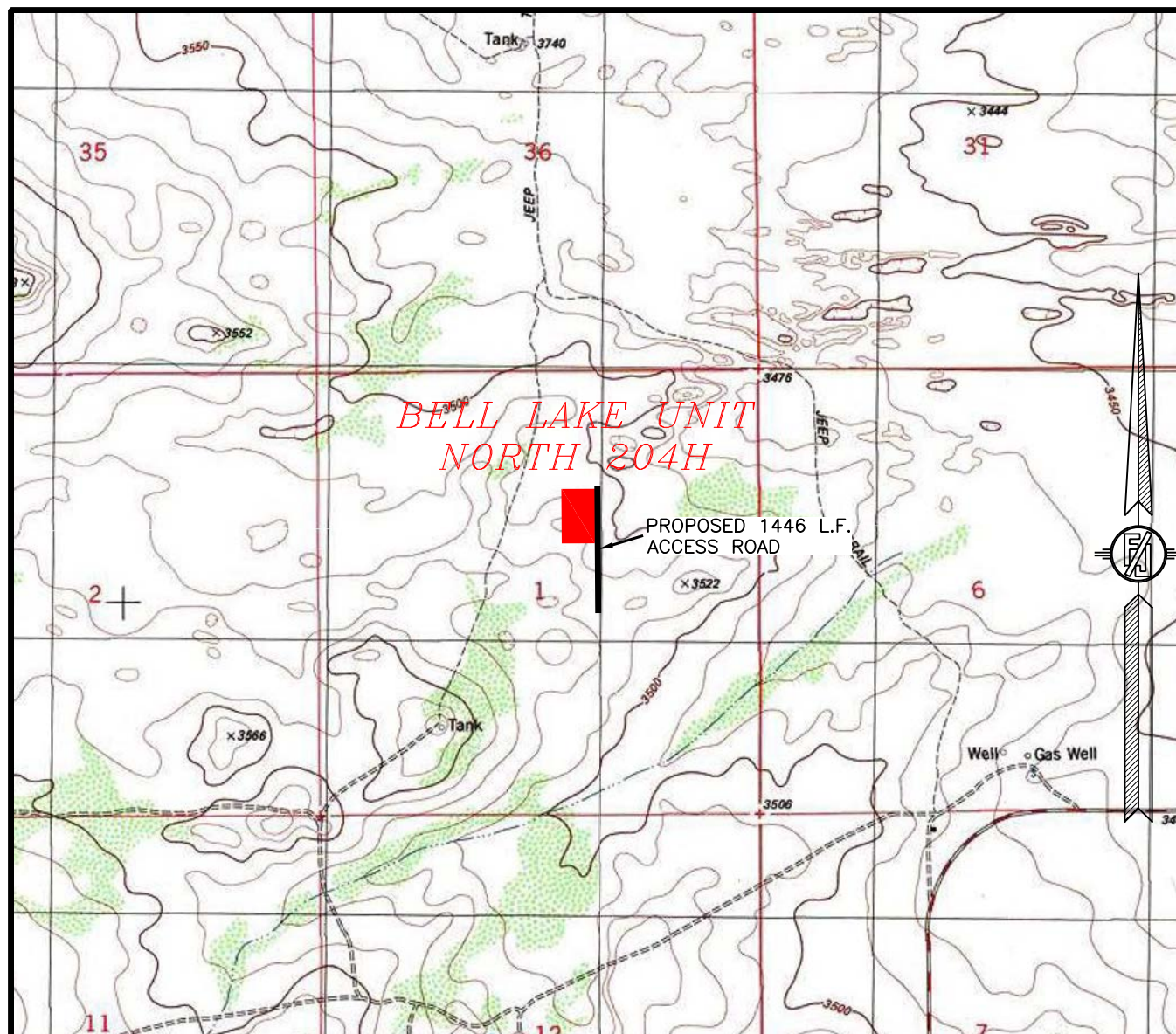
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

SURVEY NO. 7623

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

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
TIP TOP WELLS

NOT TO SCALE

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

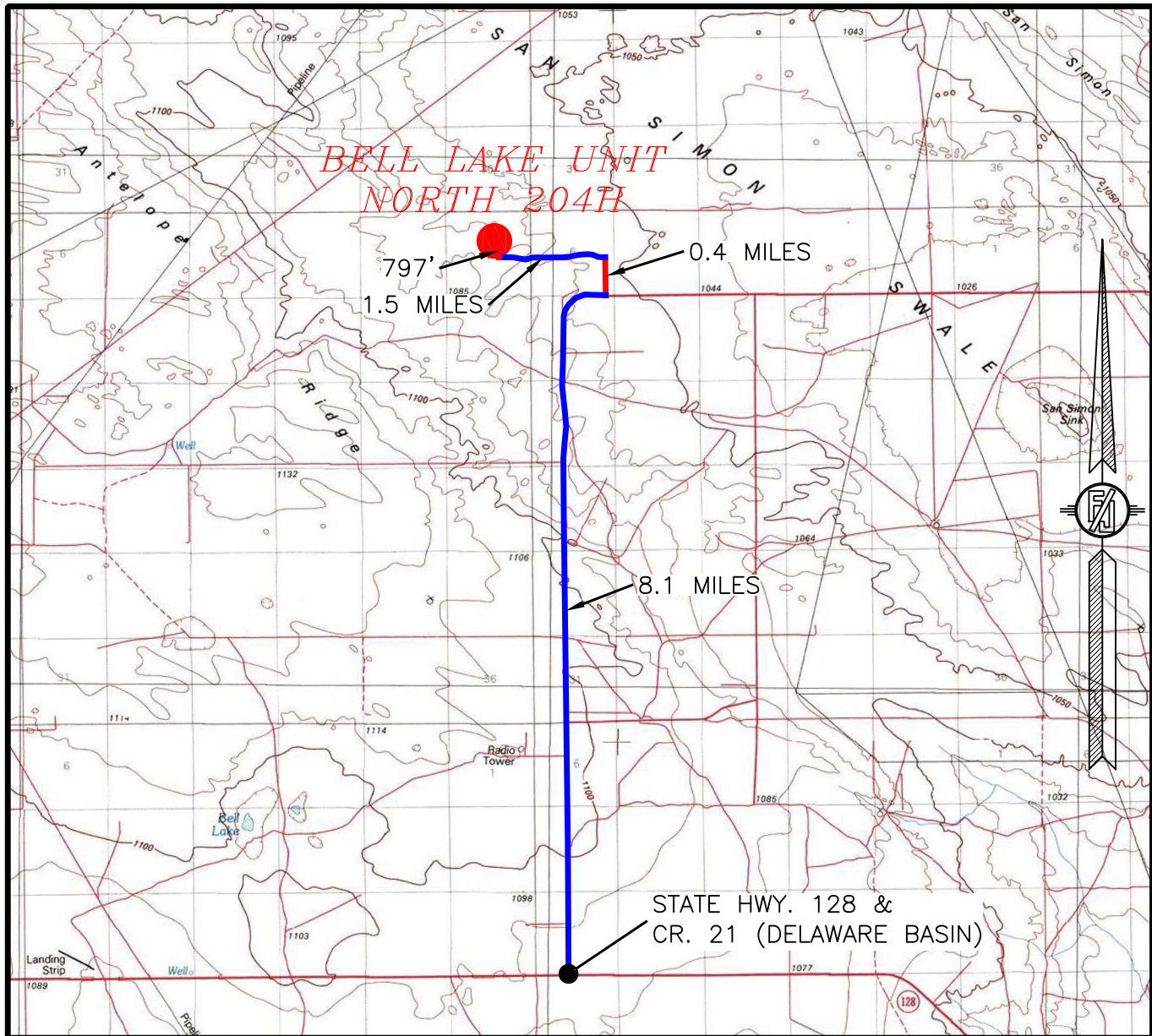
OCTOBER 30, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7623
CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 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 STATE HWY. 128 & CR. 21 (DELAWARE BASIN ROAD) GO NORTH ON CR. 21 APPROX. 8.1 MILES WHERE ROAD TURNS RIGHT (EAST) CONTINUE TO THE SECOND LEASE ROAD (KAISER-FRANCIS SIGNS), TURN LEFT (NORTH) GO 0.4 MILES ROAD TURNS LEFT (WEST), GO WEST APPROX. 1.5 MILES TO A ROAD LATH ON RIGHT, TURN RIGHT (NORTH) AND FOLLOW ROAD LATHES APPROX. 797' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

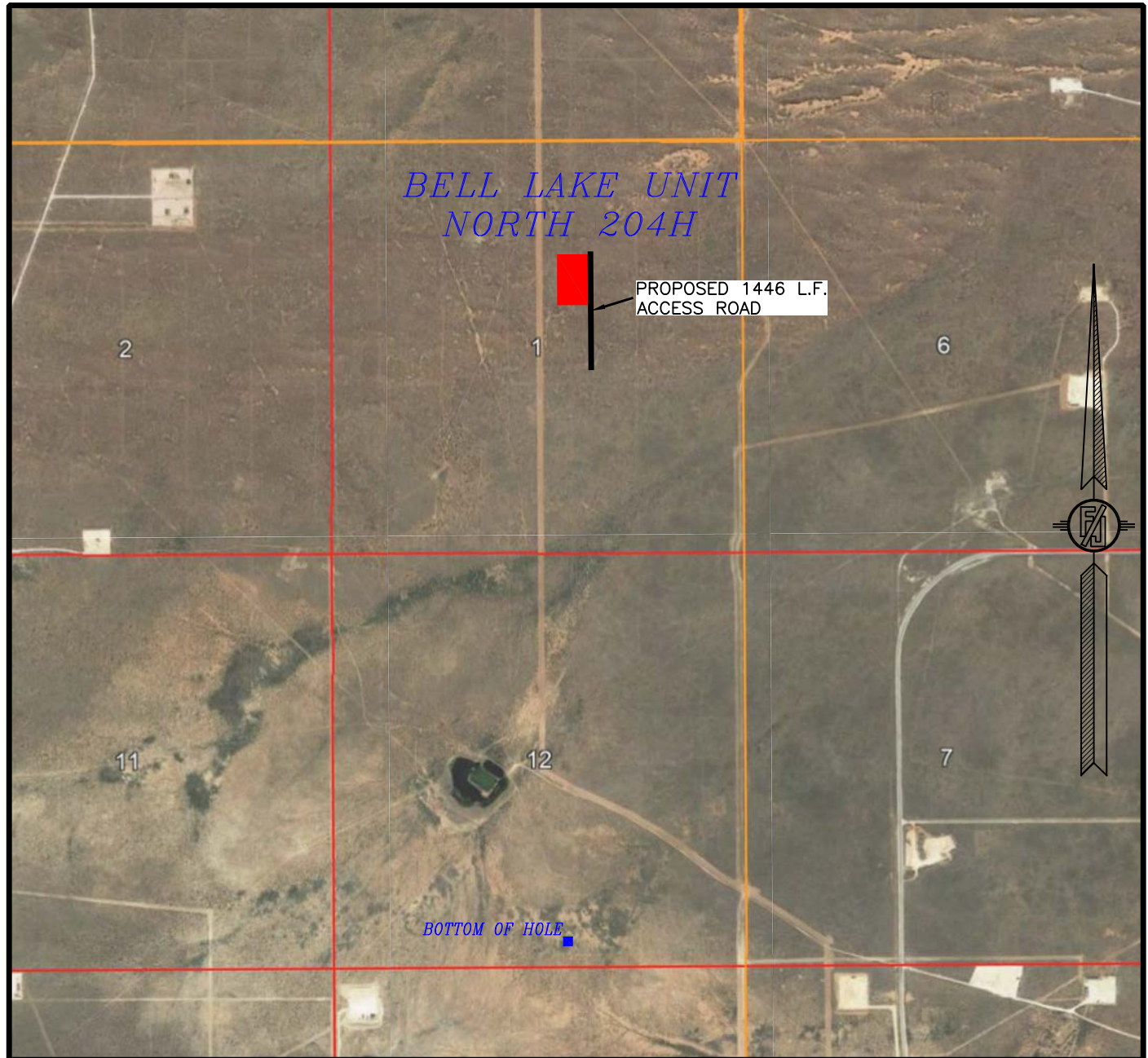
OCTOBER 30, 2019

SURVEY NO. 7623

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

CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 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 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

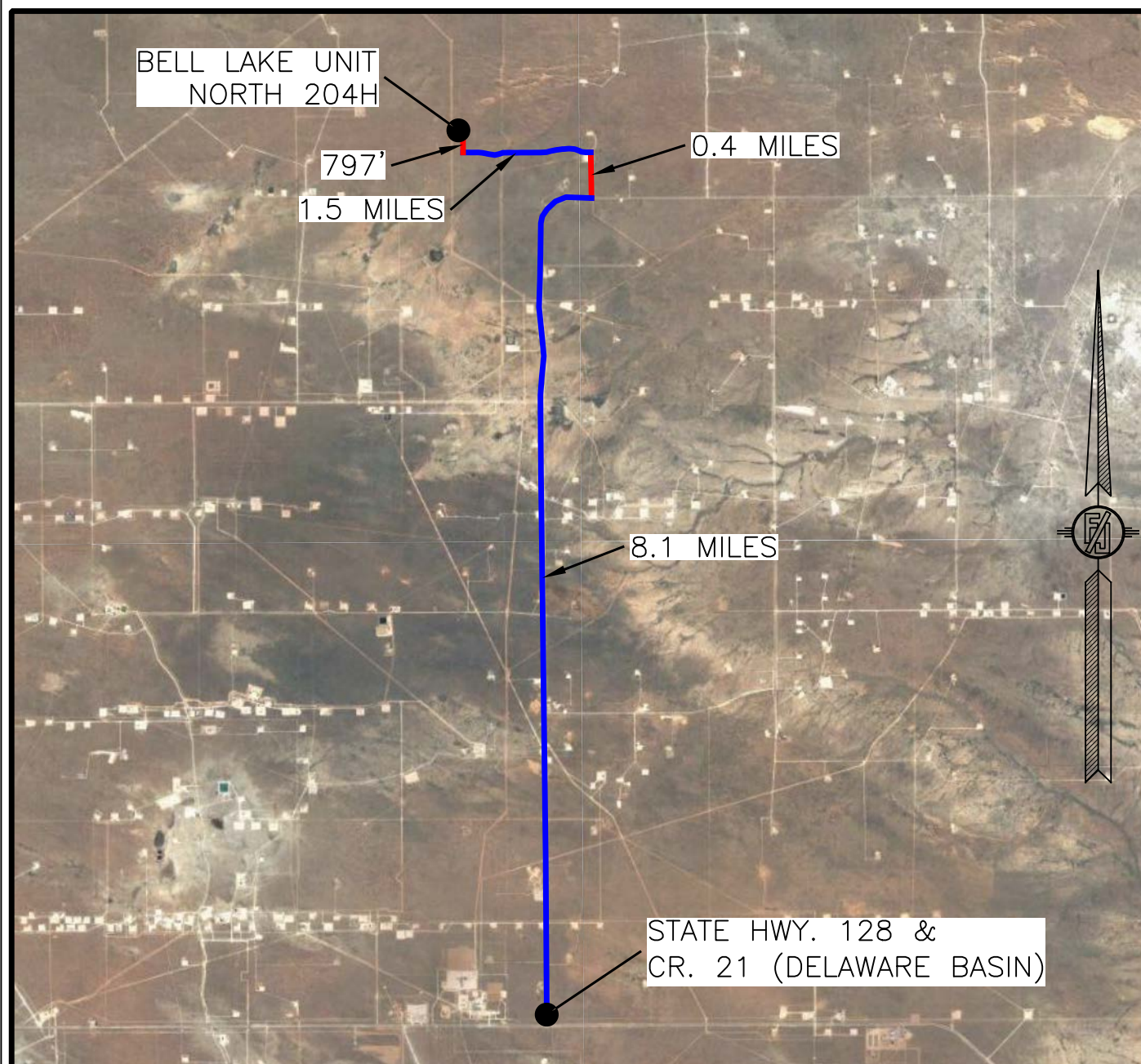
OCTOBER 30, 2019

SURVEY NO. 7623

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

CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 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 204H
LOCATED 1870 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

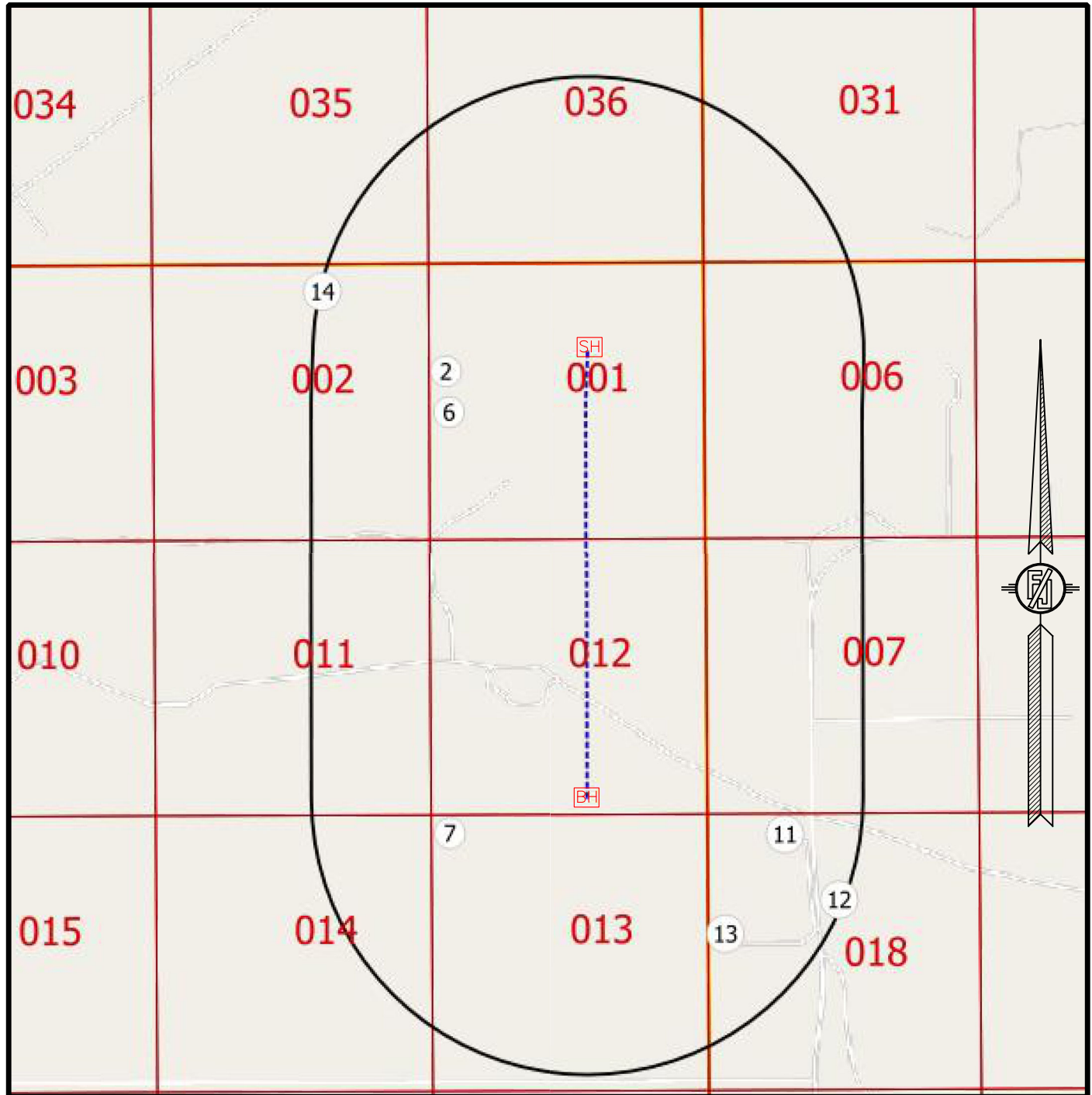
OCTOBER 30, 2019

SURVEY NO. 7623

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

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 204H
 LOCATED 1870 FT. FROM THE NORTH LINE
 AND 2220 FT. FROM THE EAST LINE OF
 SECTION 1, TOWNSHIP 23 SOUTH,
 RANGE 33 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

SURVEY NO. 7623

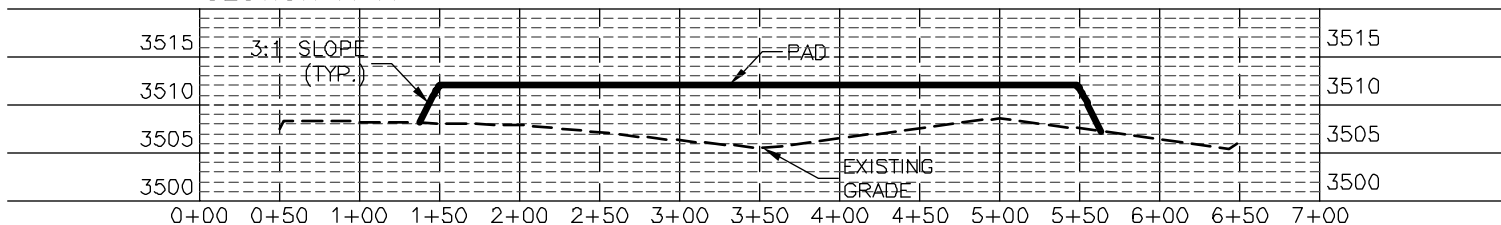
MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

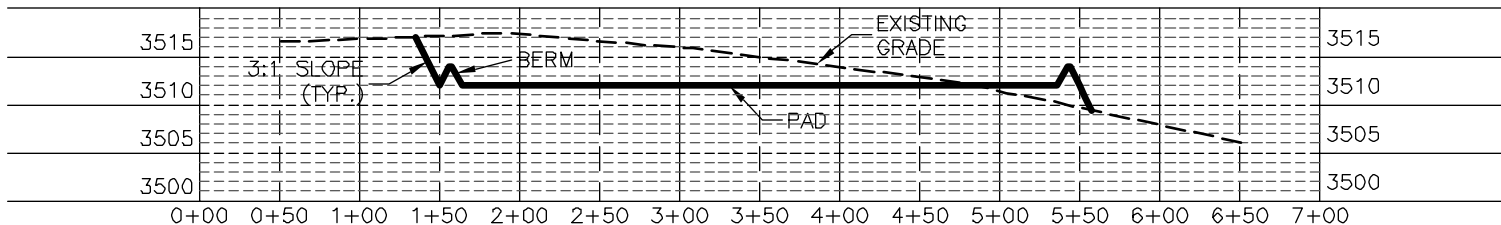


CROSS-SECTIONS

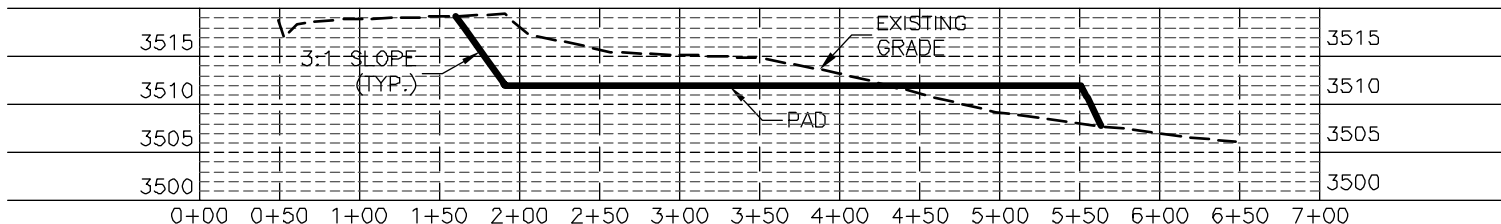
SECTION A-A'



SECTION B-B'



SECTION C-C'



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 THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL COMPANY
PAD GRADING AND CROSS SECTIONS
FOR BELL LAKE UNIT NORTH 204H
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

0 12 60 120 240
SCALE 1" = 120' - 1" = 20' VER

CUT	FILL	NET
18175 CU. YD	13284 CU. YD	4891 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

OCTOBER 30, 2019

301 SOUTH CANAL
(575) 234-3341

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SHEET 2-2
SURVEY NO. 7623

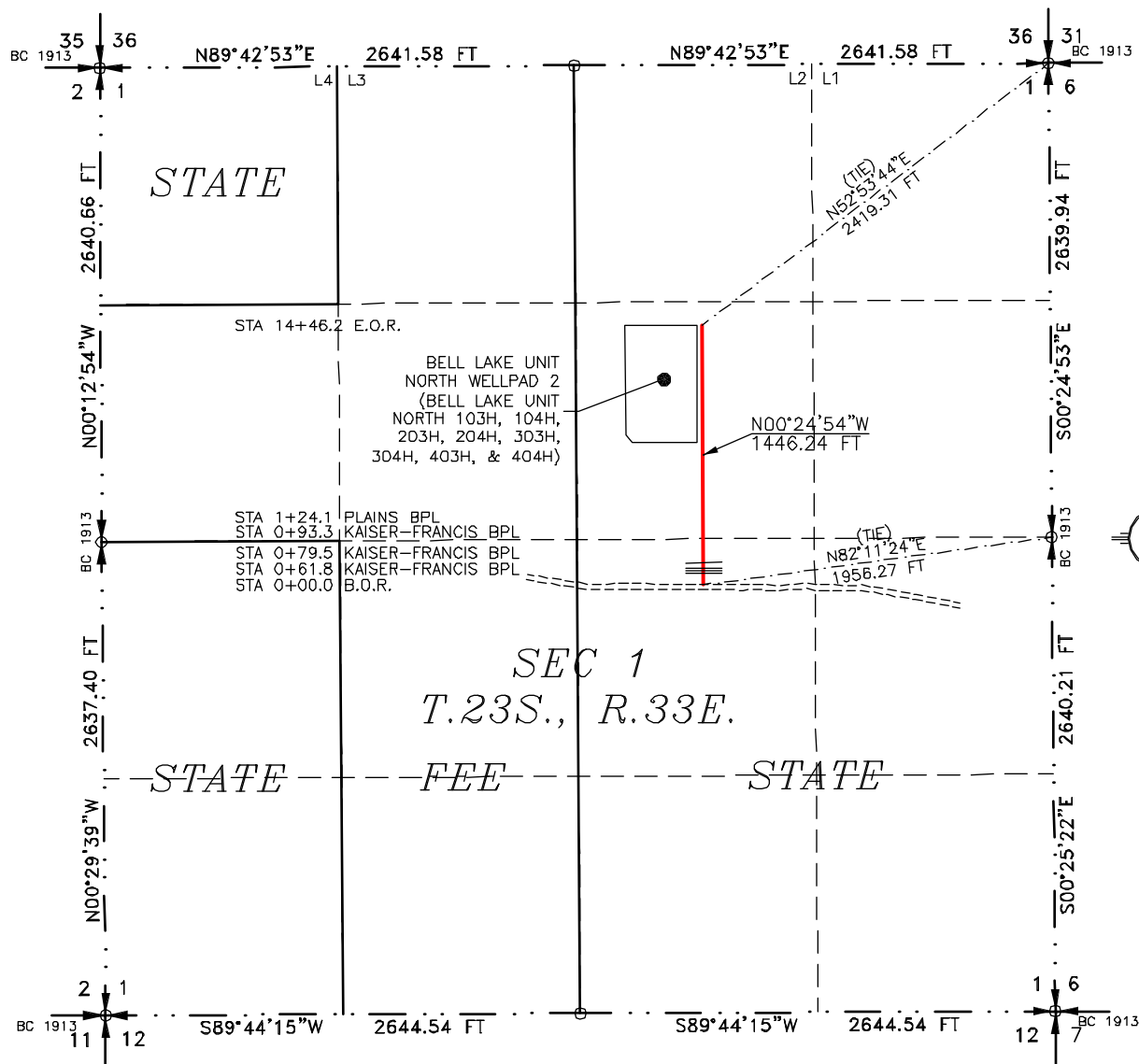


FILIMON F. JARAMILLO, P.E. 12797

ACCESS ROAD PLAT

ACCESS ROAD FOR BELL LAKE UNIT NORTH WELLPAD 2
(BELL LAKE UNIT NORTH 103H, 104H, 203H, 204H, 303H, 304H, 403H, & 404H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
OCTOBER 30, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION

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 31 DAY OF OCTOBER 2019

FILIMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
(575) 234-3341

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

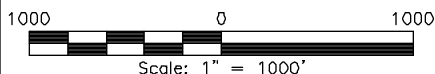
SURVEY NO. 7623

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

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



ACCESS ROAD PLAT

ACCESS ROAD FOR BELL LAKE UNIT NORTH WELLPAD 2
(BELL LAKE UNIT NORTH 103H, 104H, 203H, 204H, 303H, 304H, 403H, & 404H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
OCTOBER 30, 2019

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 1, TOWNSHIP 23 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 NW/4 SE/4 OF SAID SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N82°11'24"E, A DISTANCE OF 1956.27 FEET;
THENCE N00°24'54"W A DISTANCE OF 1446.24 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 1, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N52°53'44"E, A DISTANCE OF 2419.31 FEET;

SAID STRIP OF LAND BEING 1446.24 FEET OR 87.65 RODS IN LENGTH, CONTAINING 0.996 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SE/4	255.92 L.F.	15.51 RODS	0.176 ACRES
SW/4 NE/4	1190.32 L.F.	72.14 RODS	0.820 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: 2-2

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

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 31 DAY OF OCTOBER 2019


FILIMON F. JARAMILLO PLS. 12797

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

SURVEY NO. 7623



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 1-T23S-R33E

BELL LAKE UNIT N. 204H

HORIZONTAL

Plan: PLAN 1

Standard Planning Report

14 December, 2021

Kaiser-Francis Oil Company



SB Directional Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

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-T23S-R33E		
Site Position:		Northing:	485,999.00 usft
From:	Map	Easting:	749,493.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.33354131
		Longitude:	-103.52557723

Well	BELL LAKE UNIT N. 204H					
Well Position	+N/-S	0.00 usft	Northing:	486,770.50 usft	Latitude:	32.33565326
	+E/-W	0.00 usft	Easting:	749,909.97 usft	Longitude:	-103.52420850
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,518.80 usft	Ground Level:	3,518.80 usft
Grid Convergence:		0.43 °				

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/14/2021	6.56	60.02	47,590.65790848

Design	PLAN 1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Plan Survey Tool Program	Date	12/14/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,851.93	PLAN 1 (HORIZONTAL)	MWD	
				OWSG MWD - Standard	

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	
2,292.20	13.84	249.51	2,285.48	-29.14	-77.95	2.00	2.00	0.00	249.51	
6,206.44	13.84	249.51	6,086.02	-357.06	-955.26	0.00	0.00	0.00	0.00	
7,129.38	0.00	0.00	7,000.00	-395.91	-1,059.20	1.50	-1.50	0.00	180.00	
11,381.91	0.00	0.00	11,252.54	-395.91	-1,059.20	0.00	0.00	0.00	0.00	KOP BLUN204H
12,131.91	90.00	179.54	11,730.01	-873.36	-1,055.36	12.00	12.00	23.94	179.54	FTP BLUN204H
19,851.93	90.00	179.54	11,730.00	-8,593.13	-993.26	0.00	0.00	0.00	0.00	PBHL BLUN204H



SB Directional Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,152.00	0.00	0.00	1,152.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSTLER									
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
1,522.00	0.00	0.00	1,522.00	0.00	0.00	0.00	0.00	0.00	0.00
SALADO									
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	2.00	249.51	1,699.98	-0.61	-1.63	0.61	2.00	2.00	0.00
1,722.04	2.44	249.51	1,722.00	-0.91	-2.43	0.91	2.00	2.00	0.00
SALT TOP									
1,800.00	4.00	249.51	1,799.84	-2.44	-6.54	2.44	2.00	2.00	0.00
1,900.00	6.00	249.51	1,899.45	-5.49	-14.70	5.49	2.00	2.00	0.00
2,000.00	8.00	249.51	1,998.70	-9.76	-26.12	9.76	2.00	2.00	0.00
2,100.00	10.00	249.51	2,097.47	-15.24	-40.77	15.24	2.00	2.00	0.00
2,200.00	12.00	249.51	2,195.62	-21.92	-58.64	21.92	2.00	2.00	0.00
2,292.20	13.84	249.51	2,285.48	-29.14	-77.95	29.14	2.00	2.00	0.00
2,300.00	13.84	249.51	2,293.06	-29.79	-79.70	29.79	0.00	0.00	0.00
2,400.00	13.84	249.51	2,390.15	-38.17	-102.11	38.17	0.00	0.00	0.00
2,500.00	13.84	249.51	2,487.25	-46.55	-124.53	46.55	0.00	0.00	0.00
2,600.00	13.84	249.51	2,584.34	-54.92	-146.94	54.92	0.00	0.00	0.00
2,700.00	13.84	249.51	2,681.44	-63.30	-169.35	63.30	0.00	0.00	0.00
2,800.00	13.84	249.51	2,778.53	-71.68	-191.77	71.68	0.00	0.00	0.00
2,900.00	13.84	249.51	2,875.63	-80.06	-214.18	80.06	0.00	0.00	0.00
3,000.00	13.84	249.51	2,972.72	-88.43	-236.59	88.43	0.00	0.00	0.00
3,100.00	13.84	249.51	3,069.82	-96.81	-259.01	96.81	0.00	0.00	0.00
3,200.00	13.84	249.51	3,166.91	-105.19	-281.42	105.19	0.00	0.00	0.00
3,300.00	13.84	249.51	3,264.01	-113.57	-303.83	113.57	0.00	0.00	0.00
3,400.00	13.84	249.51	3,361.10	-121.95	-326.25	121.95	0.00	0.00	0.00
3,500.00	13.84	249.51	3,458.20	-130.32	-348.66	130.32	0.00	0.00	0.00
3,600.00	13.84	249.51	3,555.29	-138.70	-371.07	138.70	0.00	0.00	0.00
3,700.00	13.84	249.51	3,652.39	-147.08	-393.49	147.08	0.00	0.00	0.00
3,800.00	13.84	249.51	3,749.48	-155.46	-415.90	155.46	0.00	0.00	0.00
3,900.00	13.84	249.51	3,846.58	-163.83	-438.31	163.83	0.00	0.00	0.00
4,000.00	13.84	249.51	3,943.67	-172.21	-460.73	172.21	0.00	0.00	0.00
4,100.00	13.84	249.51	4,040.77	-180.59	-483.14	180.59	0.00	0.00	0.00
4,200.00	13.84	249.51	4,137.86	-188.97	-505.55	188.97	0.00	0.00	0.00
4,300.00	13.84	249.51	4,234.96	-197.34	-527.97	197.34	0.00	0.00	0.00
4,400.00	13.84	249.51	4,332.05	-205.72	-550.38	205.72	0.00	0.00	0.00
4,500.00	13.84	249.51	4,429.15	-214.10	-572.79	214.10	0.00	0.00	0.00



SB Directional Planning Report

Kaiser-Francis Oil Company

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	13.84	249.51	4,526.25	-222.48	-595.21	222.48	0.00	0.00	0.00
4,698.62	13.84	249.51	4,622.00	-230.74	-617.31	230.74	0.00	0.00	0.00
SALT BASE									
4,700.00	13.84	249.51	4,623.34	-230.86	-617.62	230.86	0.00	0.00	0.00
4,800.00	13.84	249.51	4,720.44	-239.23	-640.03	239.23	0.00	0.00	0.00
4,900.00	13.84	249.51	4,817.53	-247.61	-662.45	247.61	0.00	0.00	0.00
4,956.10	13.84	249.51	4,872.00	-252.31	-675.02	252.31	0.00	0.00	0.00
LAMAR									
5,000.00	13.84	249.51	4,914.63	-255.99	-684.86	255.99	0.00	0.00	0.00
5,100.00	13.84	249.51	5,011.72	-264.37	-707.27	264.37	0.00	0.00	0.00
5,162.08	13.84	249.51	5,072.00	-269.57	-721.19	269.57	0.00	0.00	0.00
BELL CAN									
5,200.00	13.84	249.51	5,108.82	-272.74	-729.69	272.74	0.00	0.00	0.00
5,300.00	13.84	249.51	5,205.91	-281.12	-752.10	281.12	0.00	0.00	0.00
5,400.00	13.84	249.51	5,303.01	-289.50	-774.51	289.50	0.00	0.00	0.00
5,500.00	13.84	249.51	5,400.10	-297.88	-796.93	297.88	0.00	0.00	0.00
5,600.00	13.84	249.51	5,497.20	-306.25	-819.34	306.25	0.00	0.00	0.00
5,700.00	13.84	249.51	5,594.29	-314.63	-841.75	314.63	0.00	0.00	0.00
5,800.00	13.84	249.51	5,691.39	-323.01	-864.17	323.01	0.00	0.00	0.00
5,900.00	13.84	249.51	5,788.48	-331.39	-886.58	331.39	0.00	0.00	0.00
6,000.00	13.84	249.51	5,885.58	-339.77	-908.99	339.77	0.00	0.00	0.00
6,027.21	13.84	249.51	5,912.00	-342.05	-915.09	342.05	0.00	0.00	0.00
CHERRY CAN									
6,100.00	13.84	249.51	5,982.67	-348.14	-931.41	348.14	0.00	0.00	0.00
6,206.44	13.84	249.51	6,086.02	-357.06	-955.26	357.06	0.00	0.00	0.00
6,300.00	12.44	249.51	6,177.13	-364.51	-975.19	364.51	1.50	-1.50	0.00
6,400.00	10.94	249.51	6,275.05	-371.60	-994.17	371.60	1.50	-1.50	0.00
6,500.00	9.44	249.51	6,373.47	-377.80	-1,010.74	377.80	1.50	-1.50	0.00
6,600.00	7.94	249.51	6,472.32	-383.09	-1,024.89	383.09	1.50	-1.50	0.00
6,700.00	6.44	249.51	6,571.53	-387.47	-1,036.62	387.47	1.50	-1.50	0.00
6,800.00	4.94	249.51	6,671.03	-390.94	-1,045.91	390.94	1.50	-1.50	0.00
6,900.00	3.44	249.51	6,770.76	-393.50	-1,052.75	393.50	1.50	-1.50	0.00
7,000.00	1.94	249.51	6,870.65	-395.14	-1,057.15	395.14	1.50	-1.50	0.00
7,100.00	0.44	249.51	6,970.63	-395.87	-1,059.09	395.87	1.50	-1.50	0.00
7,129.38	0.00	0.00	7,000.00	-395.91	-1,059.20	395.91	1.50	-1.50	0.00
7,200.00	0.00	0.00	7,070.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,300.00	0.00	0.00	7,170.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,400.00	0.00	0.00	7,270.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,401.38	0.00	0.00	7,272.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00
BRUSHY CAN									
7,500.00	0.00	0.00	7,370.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,600.00	0.00	0.00	7,470.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,700.00	0.00	0.00	7,570.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,800.00	0.00	0.00	7,670.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
7,900.00	0.00	0.00	7,770.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,000.00	0.00	0.00	7,870.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,100.00	0.00	0.00	7,970.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,200.00	0.00	0.00	8,070.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,300.00	0.00	0.00	8,170.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,400.00	0.00	0.00	8,270.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,500.00	0.00	0.00	8,370.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,600.00	0.00	0.00	8,470.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00
8,641.38	0.00	0.00	8,512.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00



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Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
BONE SPRING										
8,700.00	0.00	0.00	8,570.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
8,704.38	0.00	0.00	8,575.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
AVALON										
8,800.00	0.00	0.00	8,670.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,770.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,870.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,970.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,070.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,170.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,270.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,370.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,470.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,644.38	0.00	0.00	9,515.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
1 BSS										
9,700.00	0.00	0.00	9,570.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,670.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,770.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,870.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,970.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,177.38	0.00	0.00	10,048.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
2 BSS										
10,200.00	0.00	0.00	10,070.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,170.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,270.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,370.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,470.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,611.38	0.00	0.00	10,482.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
3 BSL										
10,700.00	0.00	0.00	10,570.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,670.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,770.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,870.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,071.38	0.00	0.00	10,942.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
3 BSS										
11,100.00	0.00	0.00	10,970.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,070.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,170.63	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,363.38	0.00	0.00	11,234.00	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
WOLFCAMP										
11,381.91	0.00	0.00	11,252.54	-395.91	-1,059.20	395.91	0.00	0.00	0.00	
11,400.00	2.17	179.54	11,270.62	-396.25	-1,059.20	396.25	12.00	12.00	0.00	
11,425.00	5.17	179.54	11,295.57	-397.85	-1,059.18	397.85	12.00	12.00	0.00	
11,450.00	8.17	179.54	11,320.39	-400.76	-1,059.16	400.76	12.00	12.00	0.00	
11,475.00	11.17	179.54	11,345.04	-404.96	-1,059.13	404.96	12.00	12.00	0.00	
11,500.00	14.17	179.54	11,369.43	-410.44	-1,059.08	410.44	12.00	12.00	0.00	
11,525.00	17.17	179.54	11,393.49	-417.19	-1,059.03	417.19	12.00	12.00	0.00	
11,550.00	20.17	179.54	11,417.17	-425.19	-1,058.96	425.19	12.00	12.00	0.00	
11,575.00	23.17	179.54	11,440.41	-434.42	-1,058.89	434.42	12.00	12.00	0.00	
11,600.00	26.17	179.54	11,463.12	-444.86	-1,058.81	444.86	12.00	12.00	0.00	
11,625.00	29.17	179.54	11,485.26	-456.46	-1,058.71	456.46	12.00	12.00	0.00	
11,650.00	32.17	179.54	11,506.76	-469.21	-1,058.61	469.21	12.00	12.00	0.00	
11,675.00	35.17	179.54	11,527.56	-483.07	-1,058.50	483.07	12.00	12.00	0.00	



SB Directional Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,700.00	38.17	179.54	11,547.61	-498.00	-1,058.38	498.00	12.00	12.00	0.00	
11,725.00	41.17	179.54	11,566.85	-513.96	-1,058.25	513.96	12.00	12.00	0.00	
11,750.00	44.17	179.54	11,585.23	-530.90	-1,058.11	530.90	12.00	12.00	0.00	
11,775.00	47.17	179.54	11,602.70	-548.78	-1,057.97	548.78	12.00	12.00	0.00	
11,800.00	50.17	179.54	11,619.21	-567.55	-1,057.82	567.55	12.00	12.00	0.00	
11,825.00	53.17	179.54	11,634.71	-587.16	-1,057.66	587.16	12.00	12.00	0.00	
11,850.00	56.17	179.54	11,649.17	-607.55	-1,057.50	607.55	12.00	12.00	0.00	
11,875.00	59.17	179.54	11,662.54	-628.67	-1,057.33	628.67	12.00	12.00	0.00	
11,900.00	62.17	179.54	11,674.78	-650.47	-1,057.15	650.47	12.00	12.00	0.00	
11,925.00	65.17	179.54	11,685.87	-672.87	-1,056.97	672.87	12.00	12.00	0.00	
11,950.00	68.17	179.54	11,695.77	-695.82	-1,056.79	695.82	12.00	12.00	0.00	
11,975.00	71.17	179.54	11,704.45	-719.26	-1,056.60	719.26	12.00	12.00	0.00	
12,000.00	74.17	179.54	11,711.90	-743.12	-1,056.41	743.12	12.00	12.00	0.00	
12,025.00	77.17	179.54	11,718.08	-767.34	-1,056.21	767.34	12.00	12.00	0.00	
12,050.00	80.17	179.54	11,723.00	-791.85	-1,056.02	791.85	12.00	12.00	0.00	
12,075.00	83.17	179.54	11,726.62	-816.58	-1,055.82	816.58	12.00	12.00	0.00	
12,100.00	86.17	179.54	11,728.94	-841.47	-1,055.62	841.47	12.00	12.00	0.00	
12,125.00	89.17	179.54	11,729.95	-866.45	-1,055.42	866.45	12.00	12.00	0.00	
12,131.91	90.00	179.54	11,730.01	-873.36	-1,055.36	873.36	12.00	12.00	0.00	
12,200.00	90.00	179.54	11,730.01	-941.44	-1,054.81	941.44	0.00	0.00	0.00	
12,300.00	90.00	179.54	11,730.01	-1,041.44	-1,054.01	1,041.44	0.00	0.00	0.00	
12,400.00	90.00	179.54	11,730.01	-1,141.44	-1,053.20	1,141.44	0.00	0.00	0.00	
12,500.00	90.00	179.54	11,730.01	-1,241.43	-1,052.40	1,241.43	0.00	0.00	0.00	
12,600.00	90.00	179.54	11,730.01	-1,341.43	-1,051.60	1,341.43	0.00	0.00	0.00	
12,700.00	90.00	179.54	11,730.01	-1,441.43	-1,050.79	1,441.43	0.00	0.00	0.00	
12,800.00	90.00	179.54	11,730.01	-1,541.42	-1,049.99	1,541.42	0.00	0.00	0.00	
12,900.00	90.00	179.54	11,730.01	-1,641.42	-1,049.18	1,641.42	0.00	0.00	0.00	
13,000.00	90.00	179.54	11,730.01	-1,741.42	-1,048.38	1,741.42	0.00	0.00	0.00	
13,100.00	90.00	179.54	11,730.01	-1,841.41	-1,047.57	1,841.41	0.00	0.00	0.00	
13,200.00	90.00	179.54	11,730.01	-1,941.41	-1,046.77	1,941.41	0.00	0.00	0.00	
13,300.00	90.00	179.54	11,730.01	-2,041.41	-1,045.97	2,041.41	0.00	0.00	0.00	
13,400.00	90.00	179.54	11,730.01	-2,141.41	-1,045.16	2,141.41	0.00	0.00	0.00	
13,500.00	90.00	179.54	11,730.01	-2,241.40	-1,044.36	2,241.40	0.00	0.00	0.00	
13,600.00	90.00	179.54	11,730.02	-2,341.40	-1,043.55	2,341.40	0.00	0.00	0.00	
13,700.00	90.00	179.54	11,730.02	-2,441.40	-1,042.75	2,441.40	0.00	0.00	0.00	
13,800.00	90.00	179.54	11,730.02	-2,541.39	-1,041.94	2,541.39	0.00	0.00	0.00	
13,900.00	90.00	179.54	11,730.02	-2,641.39	-1,041.14	2,641.39	0.00	0.00	0.00	
14,000.00	90.00	179.54	11,730.02	-2,741.39	-1,040.34	2,741.39	0.00	0.00	0.00	
14,100.00	90.00	179.54	11,730.02	-2,841.38	-1,039.53	2,841.38	0.00	0.00	0.00	
14,200.00	90.00	179.54	11,730.02	-2,941.38	-1,038.73	2,941.38	0.00	0.00	0.00	
14,300.00	90.00	179.54	11,730.02	-3,041.38	-1,037.92	3,041.38	0.00	0.00	0.00	
14,400.00	90.00	179.54	11,730.02	-3,141.37	-1,037.12	3,141.37	0.00	0.00	0.00	
14,500.00	90.00	179.54	11,730.02	-3,241.37	-1,036.31	3,241.37	0.00	0.00	0.00	
14,600.00	90.00	179.54	11,730.02	-3,341.37	-1,035.51	3,341.37	0.00	0.00	0.00	
14,700.00	90.00	179.54	11,730.02	-3,441.36	-1,034.71	3,441.36	0.00	0.00	0.00	
14,800.00	90.00	179.54	11,730.02	-3,541.36	-1,033.90	3,541.36	0.00	0.00	0.00	
14,900.00	90.00	179.54	11,730.02	-3,641.36	-1,033.10	3,641.36	0.00	0.00	0.00	
15,000.00	90.00	179.54	11,730.03	-3,741.35	-1,032.29	3,741.35	0.00	0.00	0.00	
15,100.00	90.00	179.54	11,730.03	-3,841.35	-1,031.49	3,841.35	0.00	0.00	0.00	
15,200.00	90.00	179.54	11,730.03	-3,941.35	-1,030.69	3,941.35	0.00	0.00	0.00	
15,300.00	90.00	179.54	11,730.03	-4,041.34	-1,029.88	4,041.34	0.00	0.00	0.00	
15,400.00	90.00	179.54	11,730.03	-4,141.34	-1,029.08	4,141.34	0.00	0.00	0.00	
15,500.00	90.00	179.54	11,730.03	-4,241.34	-1,028.27	4,241.34	0.00	0.00	0.00	
15,600.00	90.00	179.54	11,730.03	-4,341.33	-1,027.47	4,341.33	0.00	0.00	0.00	



SB Directional Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 204H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,700.00	90.00	179.54	11,730.03	-4,441.33	-1,026.66	4,441.33	0.00	0.00	0.00
15,800.00	90.00	179.54	11,730.03	-4,541.33	-1,025.86	4,541.33	0.00	0.00	0.00
15,900.00	90.00	179.54	11,730.03	-4,641.32	-1,025.06	4,641.32	0.00	0.00	0.00
16,000.00	90.00	179.54	11,730.03	-4,741.32	-1,024.25	4,741.32	0.00	0.00	0.00
16,100.00	90.00	179.54	11,730.03	-4,841.32	-1,023.45	4,841.32	0.00	0.00	0.00
16,200.00	90.00	179.54	11,730.03	-4,941.31	-1,022.64	4,941.31	0.00	0.00	0.00
16,300.00	90.00	179.54	11,730.03	-5,041.31	-1,021.84	5,041.31	0.00	0.00	0.00
16,400.00	90.00	179.54	11,730.04	-5,141.31	-1,021.03	5,141.31	0.00	0.00	0.00
16,500.00	90.00	179.54	11,730.04	-5,241.30	-1,020.23	5,241.30	0.00	0.00	0.00
16,600.00	90.00	179.54	11,730.04	-5,341.30	-1,019.43	5,341.30	0.00	0.00	0.00
16,700.00	90.00	179.54	11,730.04	-5,441.30	-1,018.62	5,441.30	0.00	0.00	0.00
16,800.00	90.00	179.54	11,730.04	-5,541.30	-1,017.82	5,541.30	0.00	0.00	0.00
16,900.00	90.00	179.54	11,730.04	-5,641.29	-1,017.01	5,641.29	0.00	0.00	0.00
17,000.00	90.00	179.54	11,730.04	-5,741.29	-1,016.21	5,741.29	0.00	0.00	0.00
17,100.00	90.00	179.54	11,730.04	-5,841.29	-1,015.40	5,841.29	0.00	0.00	0.00
17,200.00	90.00	179.54	11,730.04	-5,941.28	-1,014.60	5,941.28	0.00	0.00	0.00
17,300.00	90.00	179.54	11,730.04	-6,041.28	-1,013.80	6,041.28	0.00	0.00	0.00
17,400.00	90.00	179.54	11,730.04	-6,141.28	-1,012.99	6,141.28	0.00	0.00	0.00
17,500.00	90.00	179.54	11,730.04	-6,241.27	-1,012.19	6,241.27	0.00	0.00	0.00
17,600.00	90.00	179.54	11,730.04	-6,341.27	-1,011.38	6,341.27	0.00	0.00	0.00
17,700.00	90.00	179.54	11,730.04	-6,441.27	-1,010.58	6,441.27	0.00	0.00	0.00
17,800.00	90.00	179.54	11,730.05	-6,541.26	-1,009.77	6,541.26	0.00	0.00	0.00
17,900.00	90.00	179.54	11,730.05	-6,641.26	-1,008.97	6,641.26	0.00	0.00	0.00
18,000.00	90.00	179.54	11,730.05	-6,741.26	-1,008.17	6,741.26	0.00	0.00	0.00
18,100.00	90.00	179.54	11,730.05	-6,841.25	-1,007.36	6,841.25	0.00	0.00	0.00
18,200.00	90.00	179.54	11,730.05	-6,941.25	-1,006.56	6,941.25	0.00	0.00	0.00
18,300.00	90.00	179.54	11,730.05	-7,041.25	-1,005.75	7,041.25	0.00	0.00	0.00
18,400.00	90.00	179.54	11,730.05	-7,141.24	-1,004.95	7,141.24	0.00	0.00	0.00
18,500.00	90.00	179.54	11,730.05	-7,241.24	-1,004.14	7,241.24	0.00	0.00	0.00
18,600.00	90.00	179.54	11,730.05	-7,341.24	-1,003.34	7,341.24	0.00	0.00	0.00
18,700.00	90.00	179.54	11,730.05	-7,441.23	-1,002.54	7,441.23	0.00	0.00	0.00
18,800.00	90.00	179.54	11,730.05	-7,541.23	-1,001.73	7,541.23	0.00	0.00	0.00
18,900.00	90.00	179.54	11,730.05	-7,641.23	-1,000.93	7,641.23	0.00	0.00	0.00
19,000.00	90.00	179.54	11,730.05	-7,741.22	-1,000.12	7,741.22	0.00	0.00	0.00
19,100.00	90.00	179.54	11,730.05	-7,841.22	-999.32	7,841.22	0.00	0.00	0.00
19,200.00	90.00	179.54	11,730.06	-7,941.22	-998.52	7,941.22	0.00	0.00	0.00
19,300.00	90.00	179.54	11,730.06	-8,041.21	-997.71	8,041.21	0.00	0.00	0.00
19,400.00	90.00	179.54	11,730.06	-8,141.21	-996.91	8,141.21	0.00	0.00	0.00
19,500.00	90.00	179.54	11,730.06	-8,241.21	-996.10	8,241.21	0.00	0.00	0.00
19,600.00	90.00	179.54	11,730.06	-8,341.20	-995.30	8,341.20	0.00	0.00	0.00
19,700.00	90.00	179.54	11,730.06	-8,441.20	-994.49	8,441.20	0.00	0.00	0.00
19,800.00	90.00	179.54	11,730.06	-8,541.20	-993.69	8,541.20	0.00	0.00	0.00
19,851.93	90.00	179.54	11,730.00	-8,593.13	-993.26	8,593.13	0.00	0.00	0.00



SB Directional Planning Report

Kaiser-Francis Oil Company

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3542.30usft (Original Well Elev)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP BLUN204H - plan hits target center - Point	0.00	0.00	11,252.54	-395.91	-1,059.20	486,374.59	748,850.77	32.33458698	-103.52764719
PBHL BLUN204H - plan hits target center - Point	0.00	0.00	11,730.00	-8,593.13	-993.26	478,177.37	748,916.71	32.31205409	-103.52763326
FTP BLUN204H - plan hits target center - Point	0.00	0.00	11,730.01	-873.36	-1,055.36	485,897.14	748,854.61	32.33327455	-103.52764638

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,851.93	11,730.00	20" Casing	20	24	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,152.00	1,152.00	RUSTLER		0.00		
1,522.00	1,522.00	SALADO		0.00		
1,722.04	1,722.00	SALT TOP		0.00		
4,698.62	4,622.00	SALT BASE		0.00		
4,956.10	4,872.00	LAMAR		0.00		
5,162.08	5,072.00	BELL CAN		0.00		
6,027.21	5,912.00	CHERRY CAN		0.00		
7,401.38	7,272.00	BRUSHY CAN		0.00		
8,641.38	8,512.00	BONE SPRING		0.00		
8,704.38	8,575.00	AVALON		0.00		
9,644.38	9,515.00	1 BSS		0.00		
10,177.38	10,048.00	2 BSS		0.00		
10,611.38	10,482.00	3 BSL		0.00		
11,071.38	10,942.00	3 BSS		0.00		
11,363.38	11,234.00	WOLFCAMP		0.00		

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 148958

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 148958
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/11/2022