

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. 30-025-48517
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>1,810</u> feet from the <u>North</u> line and <u>2,220</u> feet from the <u>East</u> line Section <u>1</u> Township <u>23S</u> Range <u>33E</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.) 3409' GR		8. Well Number 404H
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 11/30/2022
 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		² Pool Code	³ Pool Name	
⁴ Property Code	⁵ Property Name BELL LAKE UNIT NORTH			⁶ Well Number 404H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY			⁹ Elevation 3518.3

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	1	23 S	33 E		1810	NORTH	2220	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 12	Township 23 S	Range 33 E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
					330	SOUTH	2290	EAST	LEA
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code			¹⁵ Order No.				

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. = 32.3408137°N
LONG. = 103.5341220°W

NMSP EAST (FT)
N = 488624.85
E = 746833.93

W/4 CORNER SEC. 1
LAT. = 32.3335567°N
LONG. = 103.5341539°W

NMSP EAST (FT)
N = 485984.76
E = 746843.78

SECTION CORNER
LAT. = 32.3263087°N
LONG. = 103.5341442°W

NMSP EAST (FT)
N = 483348.00
E = 746866.46

W/4 CORNER SEC. 12
SCALED

SW CORNER SEC. 12
LAT. = 32.3117931°N
LONG. = 103.5341388°W

NMSP EAST (FT)
N = 478067.40
E = 746907.50

NE CORNER SEC. 1
LAT. = 32.3407765°N
LONG. = 103.5170201°W

NMSP EAST (FT)
N = 488651.16
E = 752116.06

E/4 CORNER SEC. 1
LAT. = 32.3335215°N
LONG. = 103.5170235°W

NMSP EAST (FT)
N = 486011.84
E = 752135.11

SECTION CORNER
LAT. = 32.3262657°N
LONG. = 103.5170258°W

NMSP EAST (FT)
N = 483372.24
E = 752154.54

E/4 CORNER SEC. 12
SCALED

SE CORNER SEC. 12
LAT. = 32.3117557°N
LONG. = 103.5170324°W

NMSP EAST (FT)
N = 478093.62
E = 752192.69

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.

Signature _____ Date _____

Printed Name _____

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 _____

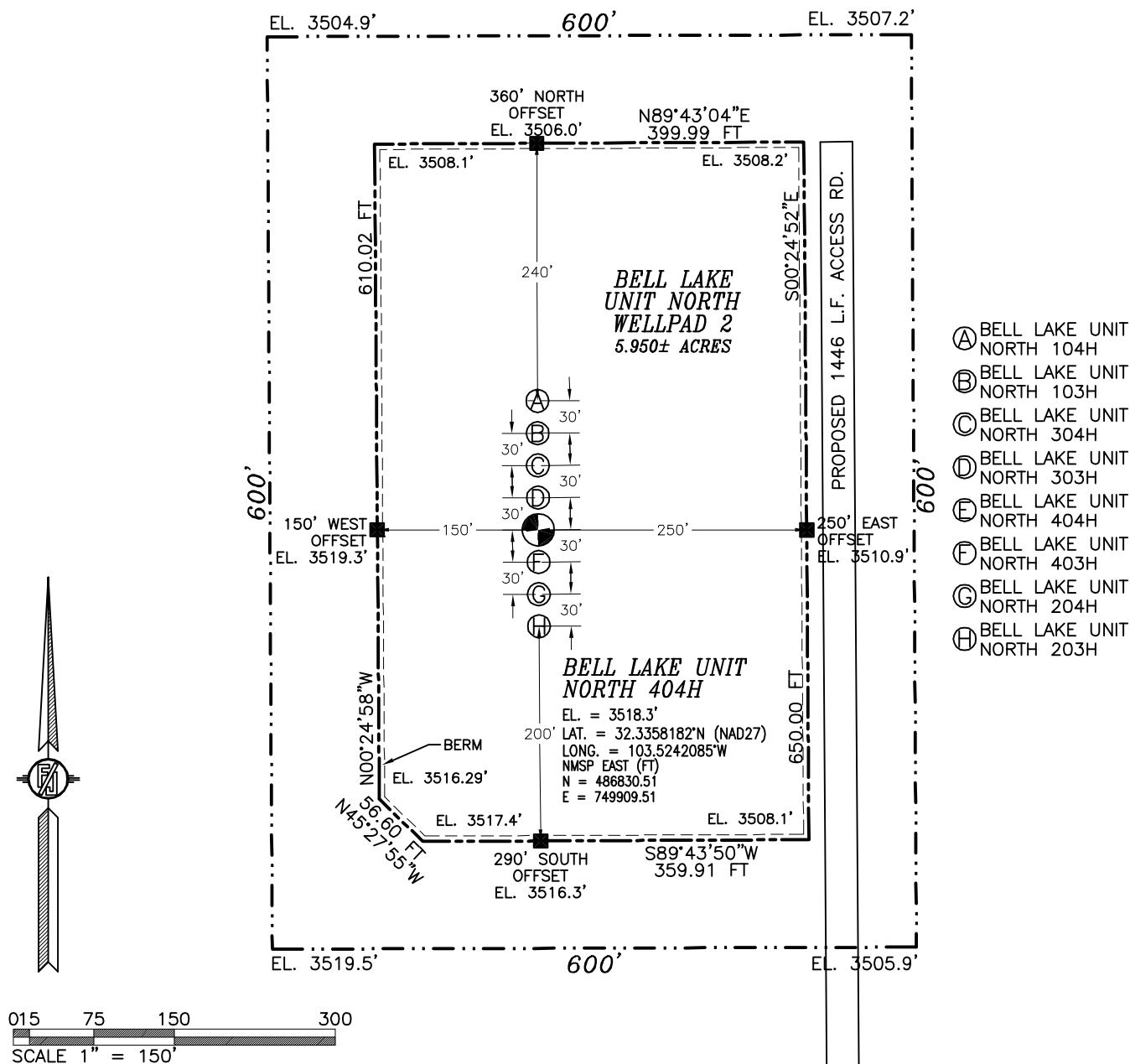


Signature and Seal of Professional Surveyor: _____

Certificate Number: **WILLIAM F. JARAMILLO, PLS 12797**

PROFESSIONAL SURVEYOR NO. 7625

**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, 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 MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, S. 12/1/2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

**KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 404H**

**LOCATED 1810 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. 7625

CARLSBAD, NEW MEXICO

Intent ☐ As Drilled ☐

API #		
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 #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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Phone: (575) 393-6161 Fax: (575) 393-0720
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3518.3

¹⁰ Surface Location

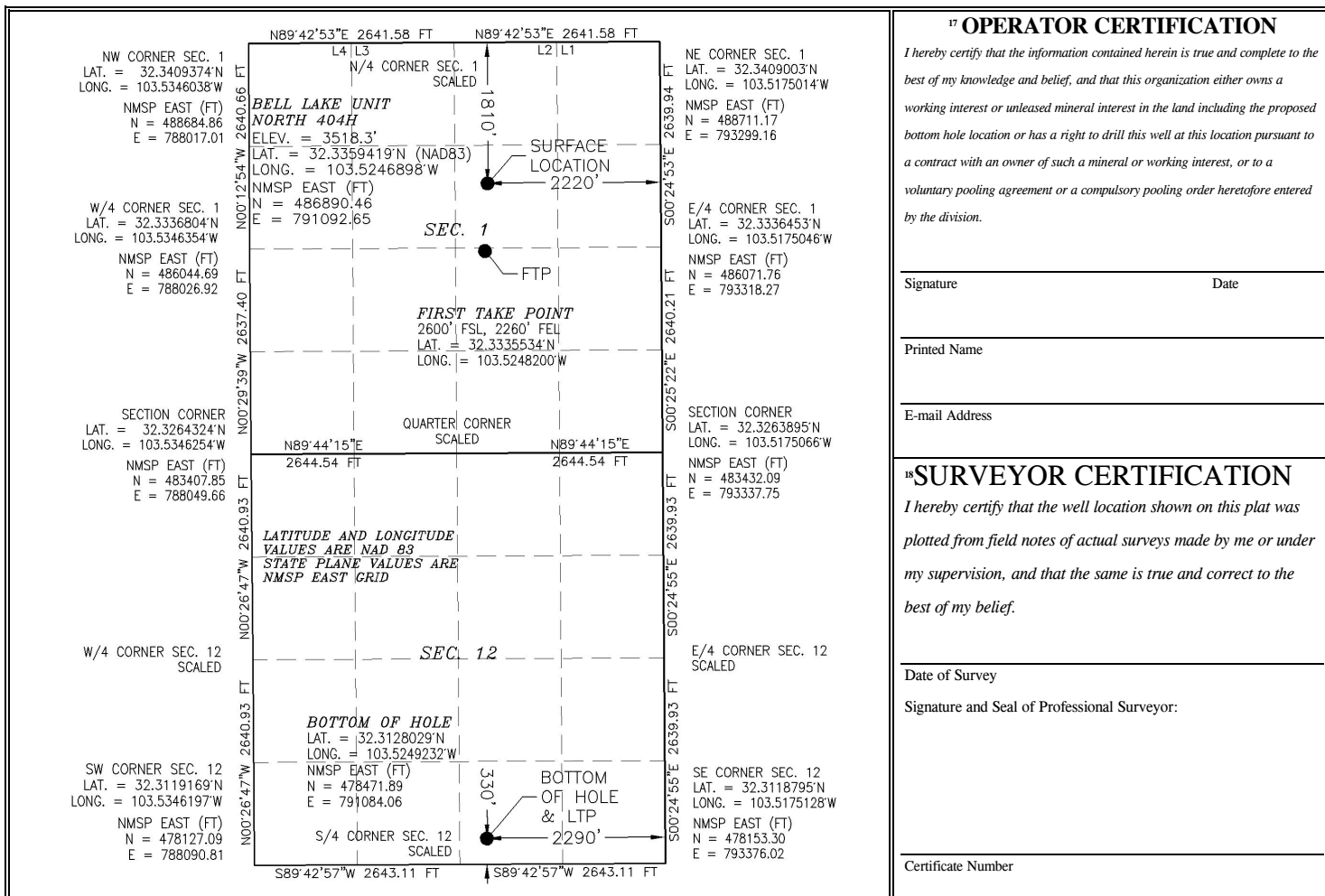
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	1	23S	33E		1900	NORTH	1810	EAST	LEA

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	23S	33E		330	SOUTH	2290	EAST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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.



Intent ☐ As Drilled ☐

API #		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: BELL LAKE UNIT NORTH	Well Number 404H

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

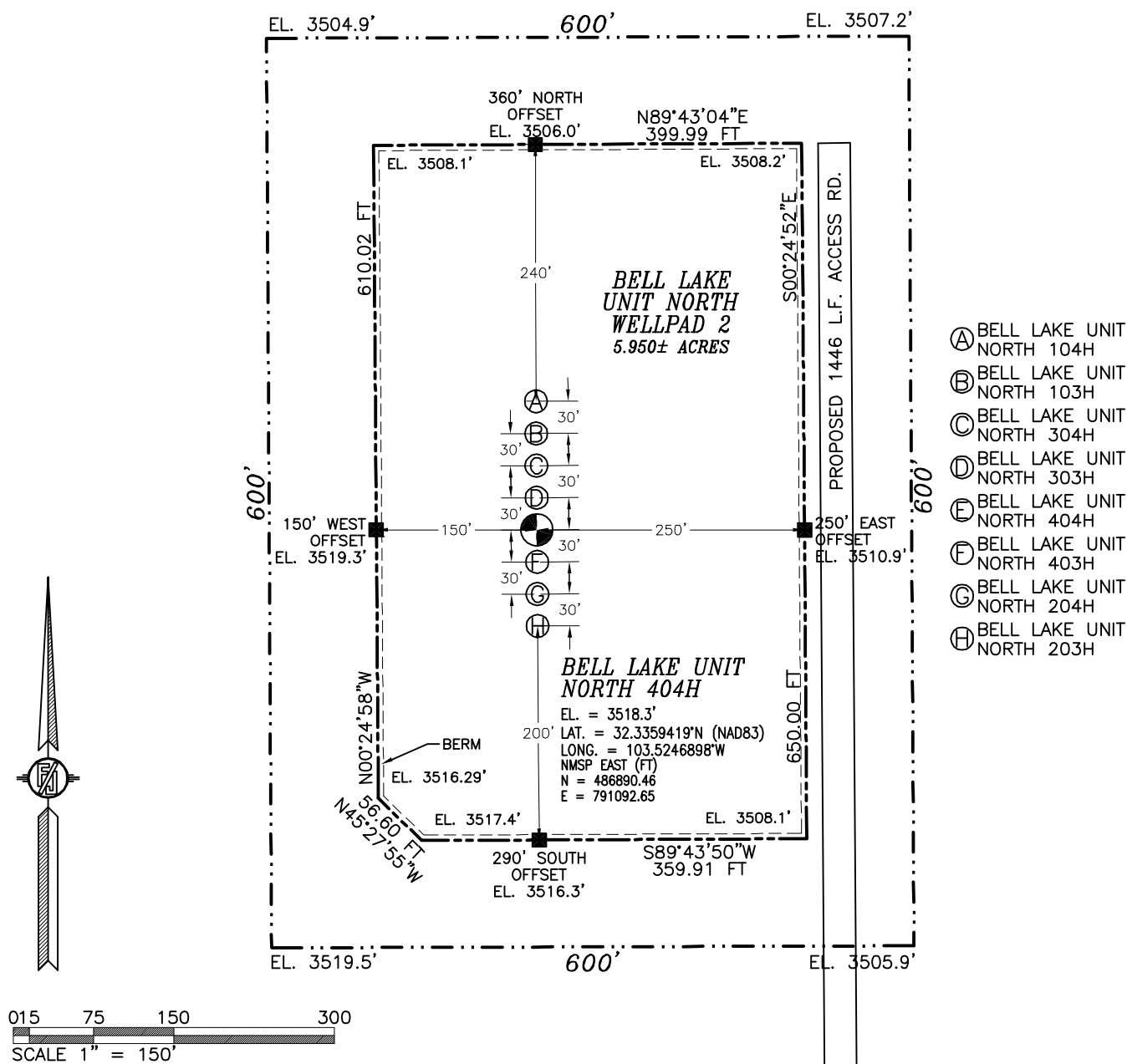
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

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 THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO P/S 1279

KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 404H
LOCATED 1810 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

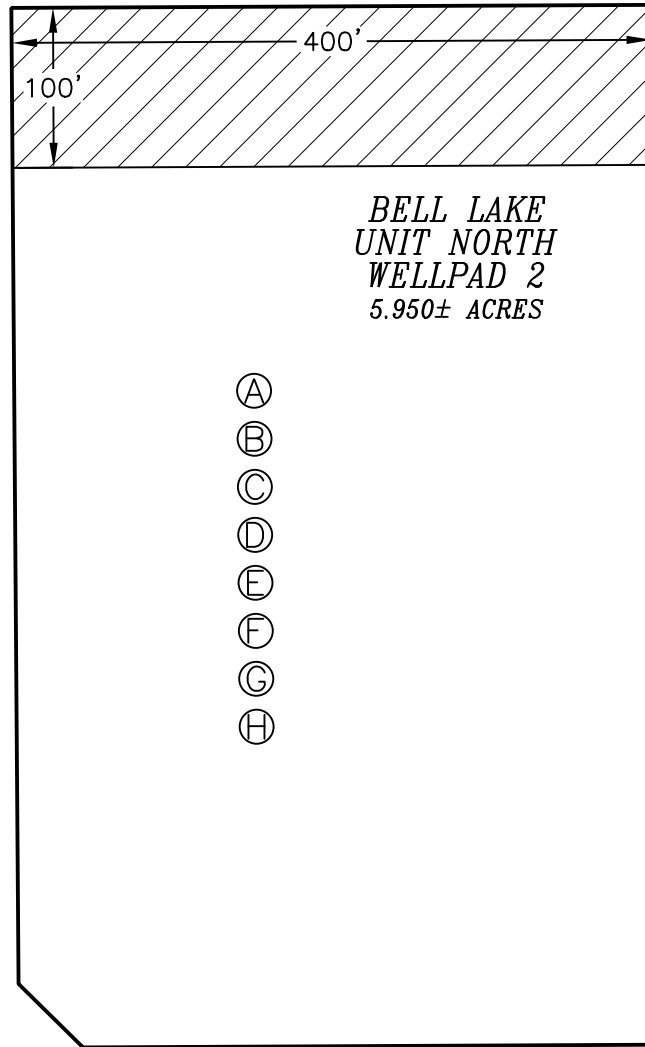
SURVEY NO. 7625

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



PROPOSED 1446 L.F. ACCESS RD.

- Ⓐ 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

 DENOTES RECLAMATION AREA
2.269± ACRES RECLAMATION AREA

0 12 60 120 240
SCALE 1" = 120'

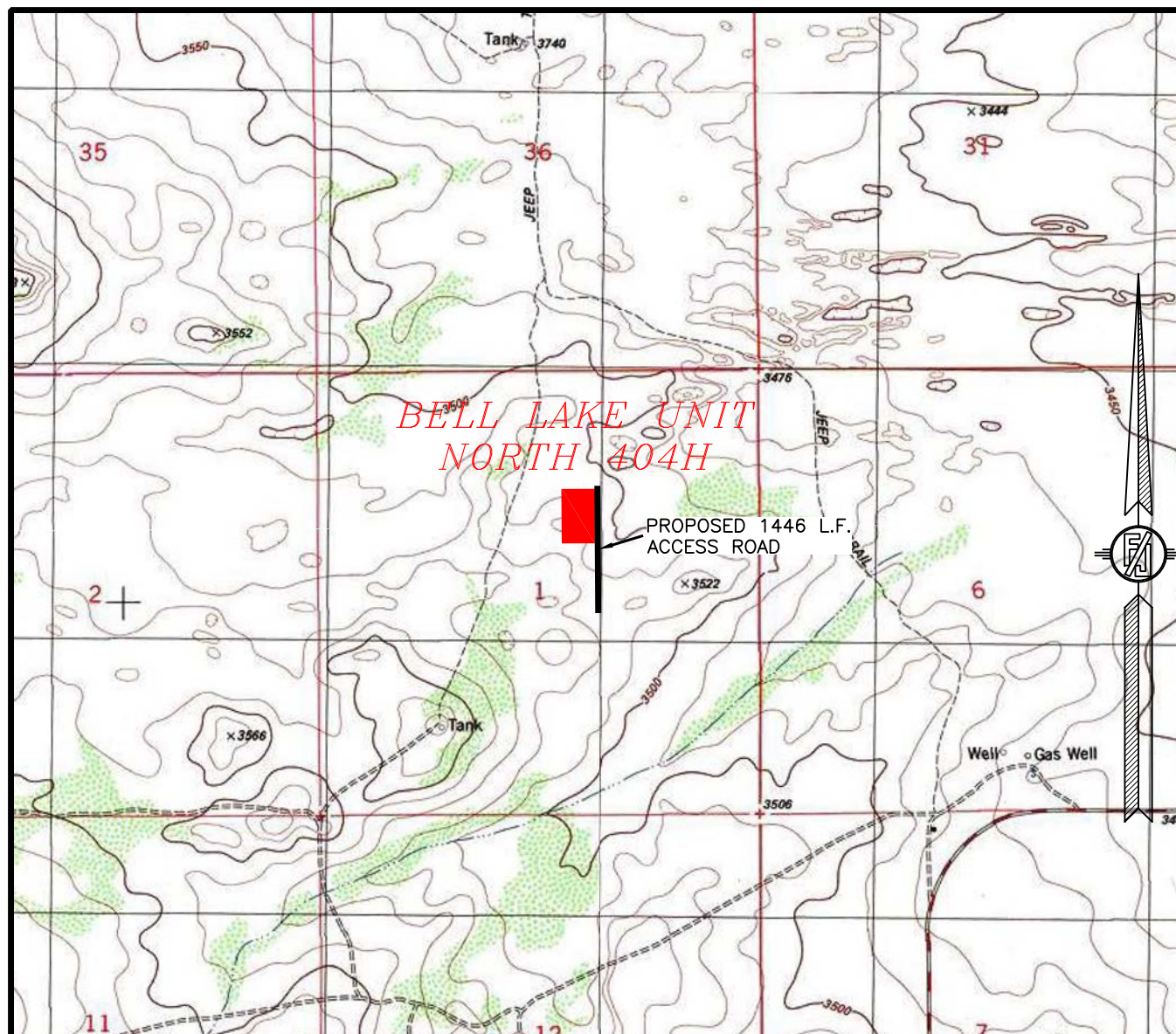
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 404H
LOCATED 1810 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

SURVEY NO. 7625

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 404H
LOCATED 1810 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

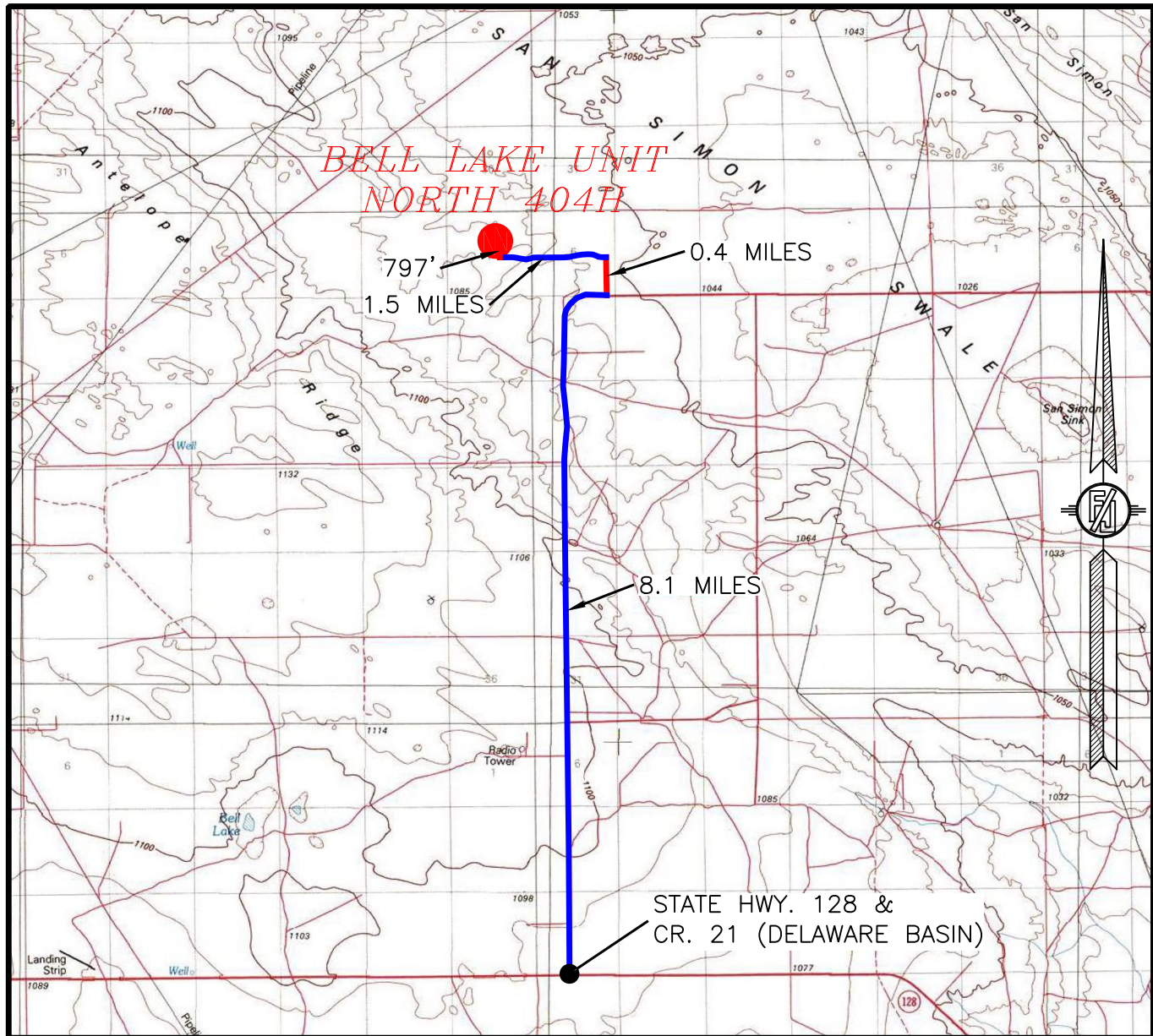
OCTOBER 30, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7625
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 LATHS APPROX. 797' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

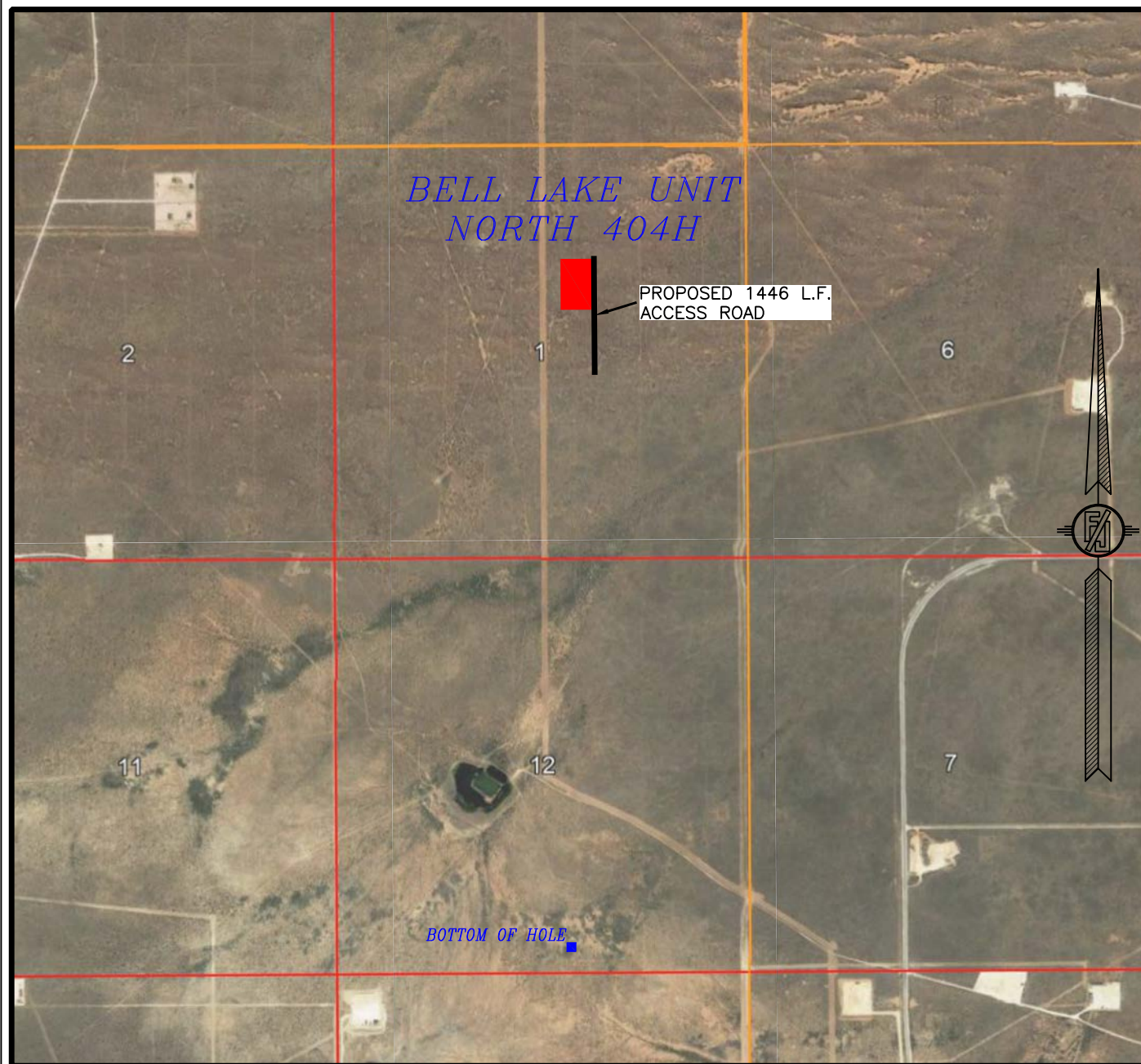
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 404H
LOCATED 1810 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

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

SURVEY NO. 7625
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 404H
LOCATED 1810 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

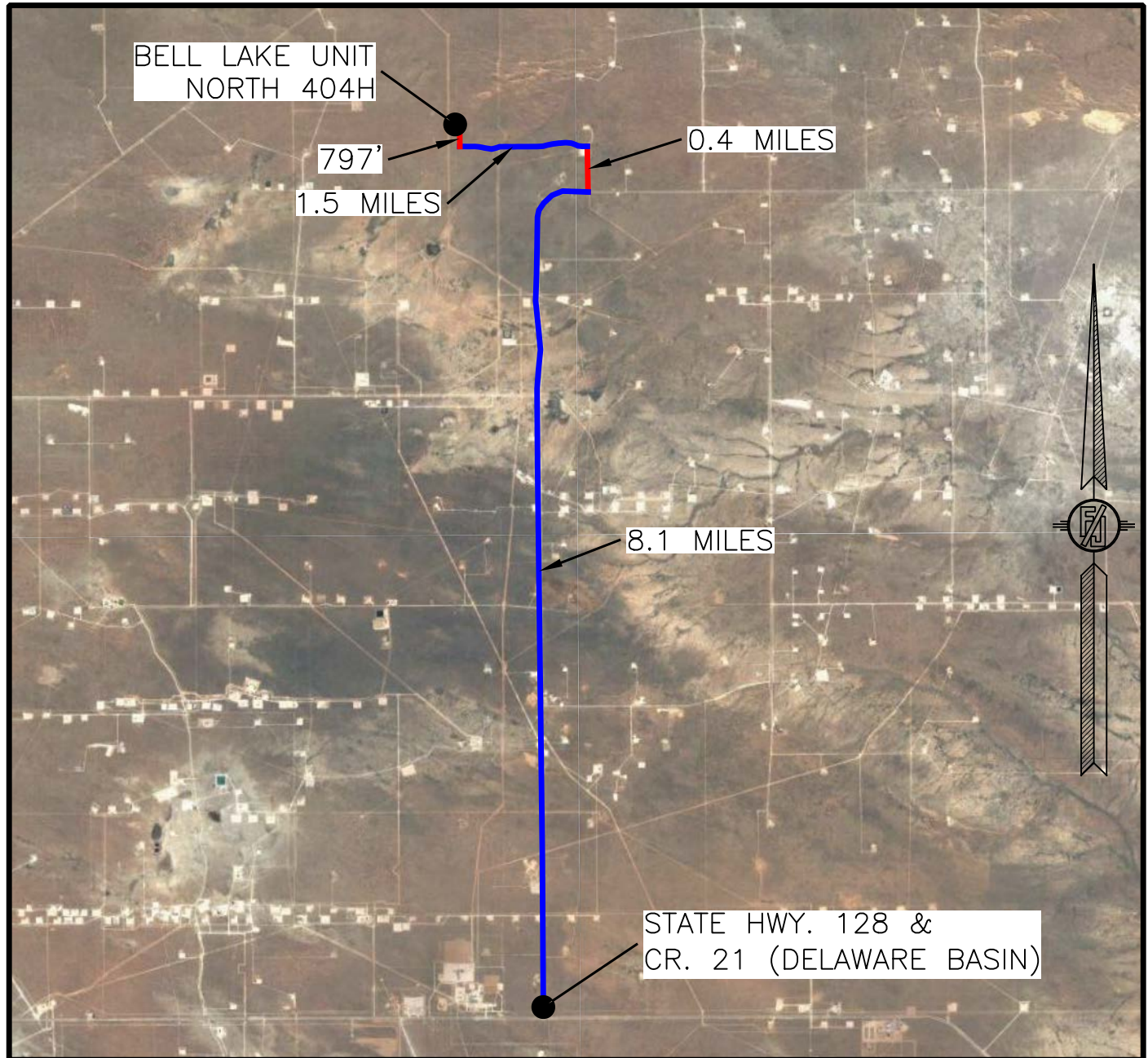
OCTOBER 30, 2019

SURVEY NO. 7625

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

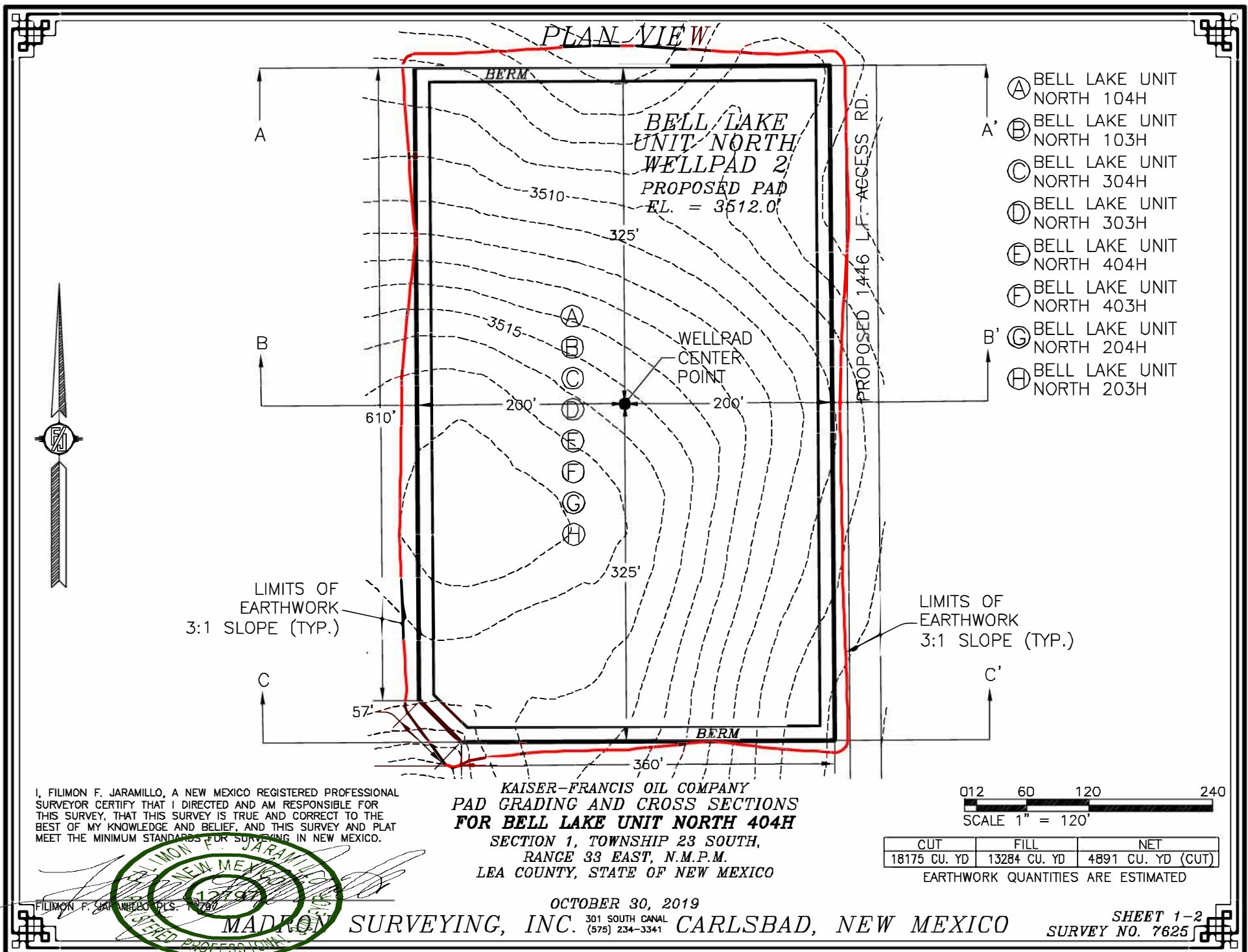
KAISER-FRANCIS OIL COMPANY
BELL LAKE UNIT NORTH 404H
LOCATED 1810 FT. FROM THE NORTH LINE
AND 2220 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 30, 2019

SURVEY NO. 7625

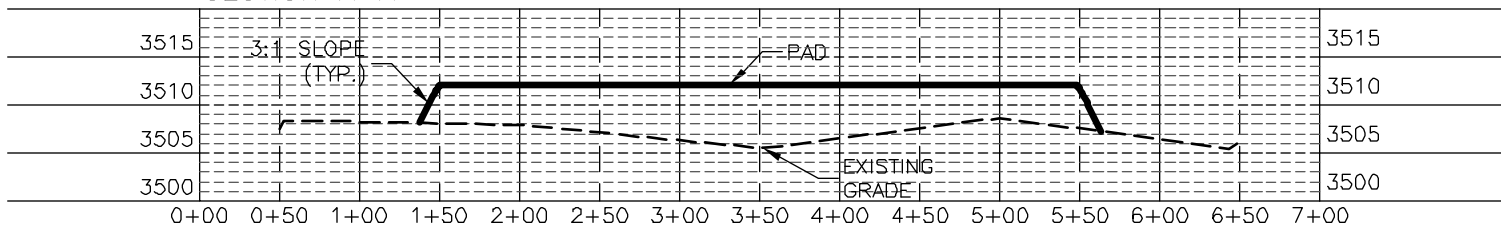
MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

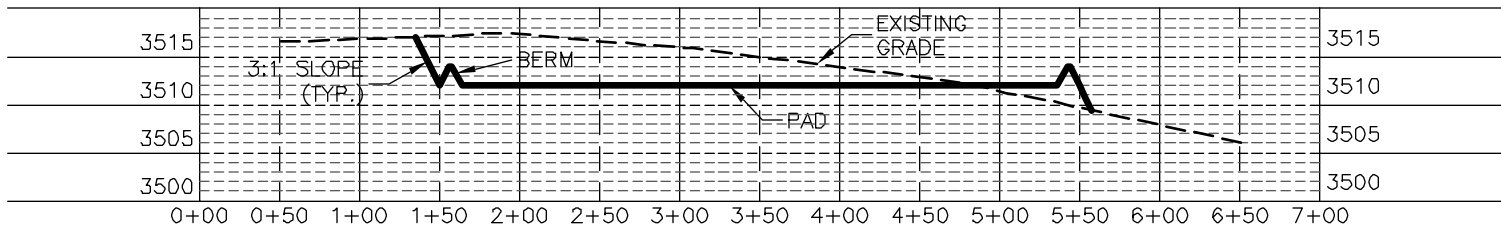


CROSS-SECTIONS

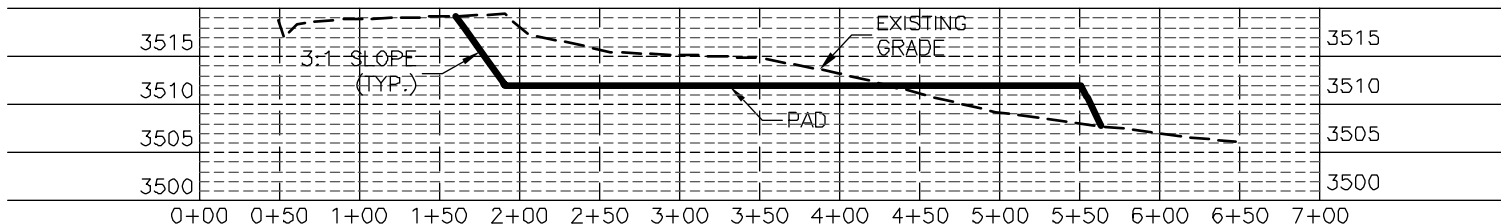
SECTION A-A'



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 404H
 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

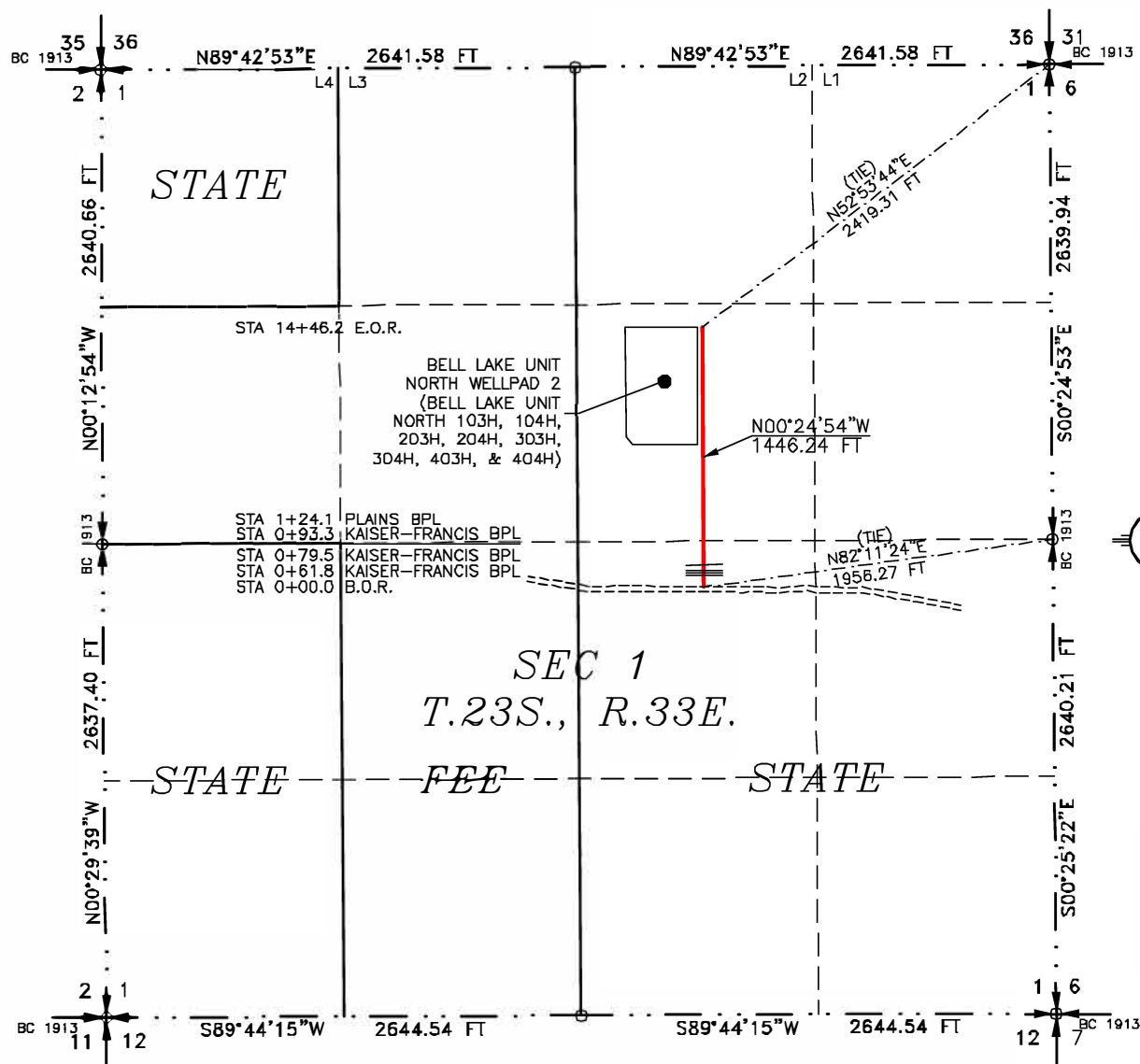
SHEET 2-2
 SURVEY NO. 7625



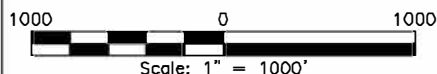
ACCESS ROAD PLAT

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

**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, 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



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

SURVEY NO. 7625

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.

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
NEW MEXICO
12797
301 SOUTH CANAL
(575) 234-3341

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

SURVEY NO. 7625

CARLSBAD, NEW MEXICO



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 1-T23S-R33E

BELL LAKE UNIT N. 404H

HORIZONTAL

Plan: PLAN 3

Standard Planning Report

29 December, 2021

Kaiser-Francis Oil Company



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 404H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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-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. 404H					
Well Position	+N/-S	0.00 usft	Northing:	486,830.51 usft	Latitude:	32.33581822
	+E/-W	0.00 usft	Easting:	749,909.51 usft	Longitude:	-103.52420853
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,518.30 usft	Ground Level:	3,518.30 usft
Grid Convergence:		0.43 °				

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/13/2021	6.47	59.99	47,512.24720350

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	12/29/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,710.99	PLAN 3 (HORIZONTAL)	MWD+IGRF	
				OWSG MWD + IGRF or WM	



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Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,984.21	7.68	163.33	1,983.05	-24.64	7.38	2.00	2.00	0.00	163.33	
5,522.18	7.68	163.33	5,489.26	-477.84	143.04	0.00	0.00	0.00	0.00	
6,034.46	0.00	0.00	6,000.00	-510.70	152.88	1.50	-1.50	0.00	180.00	
11,260.89	0.00	0.00	11,226.43	-510.70	152.88	0.00	0.00	0.00	0.00	KOP BLUN 404H
11,949.89	82.68	179.58	11,700.00	-927.32	155.93	12.00	12.00	0.00	179.58	PBHL BLUN 404H
16,661.09	82.68	179.58	12,300.26	-5,600.00	190.16	0.00	0.00	0.00	0.00	
16,920.95	87.88	179.58	12,321.64	-5,858.88	192.06	2.00	2.00	0.00	0.00	
19,711.21	87.88	179.58	12,425.00	-8,647.16	212.48	0.00	0.00	0.00	0.00	PBHL BLUN 404H



Planning Report

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Project:	LEA COUNTY, N.M. 27	MD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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
Start Nudge 2° DLS									
1,700.00	2.00	163.33	1,699.98	-1.67	0.50	1.67	2.00	2.00	0.00
1,800.00	4.00	163.33	1,799.84	-6.69	2.00	6.69	2.00	2.00	0.00
1,900.00	6.00	163.33	1,899.45	-15.03	4.50	15.03	2.00	2.00	0.00
1,984.21	7.68	163.33	1,983.06	-24.64	7.38	24.64	2.00	2.00	0.00
Hold 7.68° Inc									
2,000.00	7.68	163.33	1,998.71	-26.67	7.98	26.67	0.00	0.00	0.00
2,100.00	7.68	163.33	2,097.81	-39.48	11.82	39.48	0.00	0.00	0.00
2,200.00	7.68	163.33	2,196.91	-52.29	15.65	52.29	0.00	0.00	0.00
2,300.00	7.68	163.33	2,296.01	-65.10	19.49	65.10	0.00	0.00	0.00
2,400.00	7.68	163.33	2,395.12	-77.91	23.32	77.91	0.00	0.00	0.00
2,500.00	7.68	163.33	2,494.22	-90.71	27.16	90.71	0.00	0.00	0.00
2,600.00	7.68	163.33	2,593.32	-103.52	30.99	103.52	0.00	0.00	0.00
2,700.00	7.68	163.33	2,692.42	-116.33	34.83	116.33	0.00	0.00	0.00
2,800.00	7.68	163.33	2,791.52	-129.14	38.66	129.14	0.00	0.00	0.00
2,900.00	7.68	163.33	2,890.63	-141.95	42.49	141.95	0.00	0.00	0.00
3,000.00	7.68	163.33	2,989.73	-154.76	46.33	154.76	0.00	0.00	0.00
3,100.00	7.68	163.33	3,088.83	-167.57	50.16	167.57	0.00	0.00	0.00
3,200.00	7.68	163.33	3,187.93	-180.38	54.00	180.38	0.00	0.00	0.00
3,300.00	7.68	163.33	3,287.03	-193.19	57.83	193.19	0.00	0.00	0.00
3,400.00	7.68	163.33	3,386.14	-206.00	61.67	206.00	0.00	0.00	0.00
3,500.00	7.68	163.33	3,485.24	-218.81	65.50	218.81	0.00	0.00	0.00
3,600.00	7.68	163.33	3,584.34	-231.62	69.34	231.62	0.00	0.00	0.00
3,700.00	7.68	163.33	3,683.44	-244.43	73.17	244.43	0.00	0.00	0.00
3,800.00	7.68	163.33	3,782.54	-257.24	77.01	257.24	0.00	0.00	0.00
3,900.00	7.68	163.33	3,881.65	-270.05	80.84	270.05	0.00	0.00	0.00
4,000.00	7.68	163.33	3,980.75	-282.86	84.67	282.86	0.00	0.00	0.00
4,100.00	7.68	163.33	4,079.85	-295.67	88.51	295.67	0.00	0.00	0.00
4,200.00	7.68	163.33	4,178.95	-308.48	92.34	308.48	0.00	0.00	0.00
4,300.00	7.68	163.33	4,278.05	-321.29	96.18	321.29	0.00	0.00	0.00
4,400.00	7.68	163.33	4,377.16	-334.10	100.01	334.10	0.00	0.00	0.00
4,500.00	7.68	163.33	4,476.26	-346.90	103.85	346.90	0.00	0.00	0.00
4,600.00	7.68	163.33	4,575.36	-359.71	107.68	359.71	0.00	0.00	0.00
4,700.00	7.68	163.33	4,674.46	-372.52	111.52	372.52	0.00	0.00	0.00
4,800.00	7.68	163.33	4,773.56	-385.33	115.35	385.33	0.00	0.00	0.00
4,900.00	7.68	163.33	4,872.67	-398.14	119.19	398.14	0.00	0.00	0.00
5,000.00	7.68	163.33	4,971.77	-410.95	123.02	410.95	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

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Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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)
5,100.00	7.68	163.33	5,070.87	-423.76	126.85	423.76	0.00	0.00	0.00
5,200.00	7.68	163.33	5,169.97	-436.57	130.69	436.57	0.00	0.00	0.00
5,300.00	7.68	163.33	5,269.07	-449.38	134.52	449.38	0.00	0.00	0.00
5,400.00	7.68	163.33	5,368.18	-462.19	138.36	462.19	0.00	0.00	0.00
5,500.00	7.68	163.33	5,467.28	-475.00	142.19	475.00	0.00	0.00	0.00
5,522.18	7.68	163.33	5,489.26	-477.84	143.04	477.84	0.00	0.00	0.00
Start Drop 1.5° DLS									
5,600.00	6.52	163.33	5,566.48	-487.06	145.80	487.06	1.50	-1.50	0.00
5,700.00	5.02	163.33	5,665.97	-496.68	148.68	496.68	1.50	-1.50	0.00
5,800.00	3.52	163.33	5,765.69	-503.81	150.82	503.81	1.50	-1.50	0.00
5,900.00	2.02	163.33	5,865.57	-508.43	152.20	508.43	1.50	-1.50	0.00
6,000.00	0.52	163.33	5,965.55	-510.55	152.84	510.55	1.50	-1.50	0.00
6,034.45	0.00	163.33	6,000.00	-510.70	152.88	510.70	1.50	-1.50	0.00
Hold 0° Inc									
6,100.00	0.00	0.00	6,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,200.00	0.00	0.00	6,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,300.00	0.00	0.00	6,265.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,400.00	0.00	0.00	6,365.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,500.00	0.00	0.00	6,465.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,600.00	0.00	0.00	6,565.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,700.00	0.00	0.00	6,665.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,800.00	0.00	0.00	6,765.55	-510.70	152.88	510.70	0.00	0.00	0.00
6,900.00	0.00	0.00	6,865.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,000.00	0.00	0.00	6,965.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,100.00	0.00	0.00	7,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,200.00	0.00	0.00	7,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,300.00	0.00	0.00	7,265.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,400.00	0.00	0.00	7,365.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,500.00	0.00	0.00	7,465.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,600.00	0.00	0.00	7,565.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,700.00	0.00	0.00	7,665.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,800.00	0.00	0.00	7,765.55	-510.70	152.88	510.70	0.00	0.00	0.00
7,900.00	0.00	0.00	7,865.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,000.00	0.00	0.00	7,965.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,100.00	0.00	0.00	8,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,200.00	0.00	0.00	8,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,300.00	0.00	0.00	8,265.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,400.00	0.00	0.00	8,365.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,500.00	0.00	0.00	8,465.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,600.00	0.00	0.00	8,565.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,700.00	0.00	0.00	8,665.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,800.00	0.00	0.00	8,765.55	-510.70	152.88	510.70	0.00	0.00	0.00
8,900.00	0.00	0.00	8,865.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,000.00	0.00	0.00	8,965.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,100.00	0.00	0.00	9,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,200.00	0.00	0.00	9,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,300.00	0.00	0.00	9,265.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,400.00	0.00	0.00	9,365.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,500.00	0.00	0.00	9,465.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,600.00	0.00	0.00	9,565.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,700.00	0.00	0.00	9,665.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,800.00	0.00	0.00	9,765.55	-510.70	152.88	510.70	0.00	0.00	0.00
9,900.00	0.00	0.00	9,865.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,000.00	0.00	0.00	9,965.55	-510.70	152.88	510.70	0.00	0.00	0.00



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Well:	BELL LAKE UNIT N. 404H	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)
10,100.00	0.00	0.00	10,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,200.00	0.00	0.00	10,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,300.00	0.00	0.00	10,265.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,400.00	0.00	0.00	10,365.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,500.00	0.00	0.00	10,465.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,600.00	0.00	0.00	10,565.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,700.00	0.00	0.00	10,665.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,800.00	0.00	0.00	10,765.55	-510.70	152.88	510.70	0.00	0.00	0.00
10,900.00	0.00	0.00	10,865.55	-510.70	152.88	510.70	0.00	0.00	0.00
11,000.00	0.00	0.00	10,965.55	-510.70	152.88	510.70	0.00	0.00	0.00
11,100.00	0.00	0.00	11,065.55	-510.70	152.88	510.70	0.00	0.00	0.00
11,200.00	0.00	0.00	11,165.55	-510.70	152.88	510.70	0.00	0.00	0.00
11,260.88	0.00	0.00	11,226.43	-510.70	152.88	510.70	0.00	0.00	0.00
KOP 12° DLS									
11,275.00	1.69	179.58	11,240.54	-510.91	152.88	510.91	12.00	12.00	0.00
11,300.00	4.69	179.58	11,265.50	-512.30	152.89	512.30	12.00	12.00	0.00
11,325.00	7.69	179.58	11,290.35	-515.00	152.91	515.00	12.00	12.00	0.00
11,350.00	10.69	179.58	11,315.03	-518.99	152.94	518.99	12.00	12.00	0.00
11,375.00	13.69	179.58	11,339.46	-524.27	152.98	524.27	12.00	12.00	0.00
11,400.00	16.69	179.58	11,363.59	-530.82	153.03	530.82	12.00	12.00	0.00
11,425.00	19.69	179.58	11,387.33	-538.63	153.08	538.63	12.00	12.00	0.00
11,450.00	22.69	179.58	11,410.64	-547.66	153.15	547.66	12.00	12.00	0.00
11,475.00	25.69	179.58	11,433.44	-557.91	153.23	557.91	12.00	12.00	0.00
11,500.00	28.69	179.58	11,455.67	-569.33	153.31	569.33	12.00	12.00	0.00
11,525.00	31.69	179.58	11,477.28	-581.90	153.40	581.90	12.00	12.00	0.00
11,550.00	34.69	179.58	11,498.20	-595.59	153.50	595.59	12.00	12.00	0.00
11,575.00	37.69	179.58	11,518.37	-610.35	153.61	610.35	12.00	12.00	0.00
11,600.00	40.69	179.58	11,537.75	-626.15	153.73	626.15	12.00	12.00	0.00
11,625.00	43.69	179.58	11,556.27	-642.93	153.85	642.93	12.00	12.00	0.00
11,650.00	46.69	179.58	11,573.88	-660.67	153.98	660.67	12.00	12.00	0.00
11,675.00	49.69	179.58	11,590.54	-679.30	154.12	679.30	12.00	12.00	0.00
11,700.00	52.69	179.58	11,606.21	-698.78	154.26	698.78	12.00	12.00	0.00
11,725.00	55.69	179.58	11,620.83	-719.05	154.41	719.05	12.00	12.00	0.00
11,750.00	58.69	179.58	11,634.38	-740.06	154.56	740.06	12.00	12.00	0.00
11,775.00	61.69	179.58	11,646.80	-761.75	154.72	761.75	12.00	12.00	0.00
11,800.00	64.69	179.58	11,658.08	-784.06	154.88	784.06	12.00	12.00	0.00
11,825.00	67.69	179.58	11,668.17	-806.93	155.05	806.93	12.00	12.00	0.00
11,850.00	70.69	179.58	11,677.04	-830.30	155.22	830.30	12.00	12.00	0.00
11,875.00	73.69	179.58	11,684.69	-854.10	155.40	854.10	12.00	12.00	0.00
11,900.00	76.69	179.58	11,691.08	-878.26	155.57	878.26	12.00	12.00	0.00
11,925.00	79.69	179.58	11,696.19	-902.73	155.75	902.73	12.00	12.00	0.00
11,949.88	82.68	179.58	11,700.00	-927.31	155.93	927.31	12.00	12.00	0.00
LP 11949.8' MD & 11700' TVD									
12,000.00	82.68	179.58	11,706.39	-977.02	156.30	977.02	0.00	0.00	0.00
12,100.00	82.68	179.58	11,719.13	-1,076.21	157.02	1,076.21	0.00	0.00	0.00
12,200.00	82.68	179.58	11,731.87	-1,175.39	157.75	1,175.39	0.00	0.00	0.00
12,300.00	82.68	179.58	11,744.61	-1,274.57	158.48	1,274.57	0.00	0.00	0.00
12,400.00	82.68	179.58	11,757.35	-1,373.75	159.20	1,373.75	0.00	0.00	0.00
12,500.00	82.68	179.58	11,770.09	-1,472.94	159.93	1,472.94	0.00	0.00	0.00
12,600.00	82.68	179.58	11,782.84	-1,572.12	160.65	1,572.12	0.00	0.00	0.00
12,700.00	82.68	179.58	11,795.58	-1,671.30	161.38	1,671.30	0.00	0.00	0.00
12,800.00	82.68	179.58	11,808.32	-1,770.48	162.11	1,770.48	0.00	0.00	0.00
12,900.00	82.68	179.58	11,821.06	-1,869.67	162.83	1,869.67	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 404H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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)
13,000.00	82.68	179.58	11,833.80	-1,968.85	163.56	1,968.85	0.00	0.00	0.00
13,100.00	82.68	179.58	11,846.54	-2,068.03	164.29	2,068.03	0.00	0.00	0.00
13,200.00	82.68	179.58	11,859.28	-2,167.21	165.01	2,167.21	0.00	0.00	0.00
13,300.00	82.68	179.58	11,872.02	-2,266.40	165.74	2,266.40	0.00	0.00	0.00
13,400.00	82.68	179.58	11,884.76	-2,365.58	166.47	2,365.58	0.00	0.00	0.00
13,500.00	82.68	179.58	11,897.51	-2,464.76	167.19	2,464.76	0.00	0.00	0.00
13,600.00	82.68	179.58	11,910.25	-2,563.94	167.92	2,563.94	0.00	0.00	0.00
13,700.00	82.68	179.58	11,922.99	-2,663.12	168.65	2,663.12	0.00	0.00	0.00
13,800.00	82.68	179.58	11,935.73	-2,762.31	169.37	2,762.31	0.00	0.00	0.00
13,900.00	82.68	179.58	11,948.47	-2,861.49	170.10	2,861.49	0.00	0.00	0.00
14,000.00	82.68	179.58	11,961.21	-2,960.67	170.83	2,960.67	0.00	0.00	0.00
14,100.00	82.68	179.58	11,973.95	-3,059.85	171.55	3,059.85	0.00	0.00	0.00
14,200.00	82.68	179.58	11,986.69	-3,159.04	172.28	3,159.04	0.00	0.00	0.00
14,300.00	82.68	179.58	11,999.43	-3,258.22	173.01	3,258.22	0.00	0.00	0.00
14,400.00	82.68	179.58	12,012.17	-3,357.40	173.73	3,357.40	0.00	0.00	0.00
14,500.00	82.68	179.58	12,024.92	-3,456.58	174.46	3,456.58	0.00	0.00	0.00
14,600.00	82.68	179.58	12,037.66	-3,555.77	175.19	3,555.77	0.00	0.00	0.00
14,700.00	82.68	179.58	12,050.40	-3,654.95	175.91	3,654.95	0.00	0.00	0.00
14,800.00	82.68	179.58	12,063.14	-3,754.13	176.64	3,754.13	0.00	0.00	0.00
14,900.00	82.68	179.58	12,075.88	-3,853.31	177.36	3,853.31	0.00	0.00	0.00
15,000.00	82.68	179.58	12,088.62	-3,952.50	178.09	3,952.50	0.00	0.00	0.00
15,100.00	82.68	179.58	12,101.36	-4,051.68	178.82	4,051.68	0.00	0.00	0.00
15,200.00	82.68	179.58	12,114.10	-4,150.86	179.54	4,150.86	0.00	0.00	0.00
15,300.00	82.68	179.58	12,126.84	-4,250.04	180.27	4,250.04	0.00	0.00	0.00
15,400.00	82.68	179.58	12,139.59	-4,349.22	181.00	4,349.22	0.00	0.00	0.00
15,500.00	82.68	179.58	12,152.33	-4,448.41	181.72	4,448.41	0.00	0.00	0.00
15,600.00	82.68	179.58	12,165.07	-4,547.59	182.45	4,547.59	0.00	0.00	0.00
15,700.00	82.68	179.58	12,177.81	-4,646.77	183.18	4,646.77	0.00	0.00	0.00
15,800.00	82.68	179.58	12,190.55	-4,745.95	183.90	4,745.95	0.00	0.00	0.00
15,900.00	82.68	179.58	12,203.29	-4,845.14	184.63	4,845.14	0.00	0.00	0.00
16,000.00	82.68	179.58	12,216.03	-4,944.32	185.36	4,944.32	0.00	0.00	0.00
16,100.00	82.68	179.58	12,228.77	-5,043.50	186.08	5,043.50	0.00	0.00	0.00
16,200.00	82.68	179.58	12,241.51	-5,142.68	186.81	5,142.68	0.00	0.00	0.00
16,300.00	82.68	179.58	12,254.26	-5,241.87	187.54	5,241.87	0.00	0.00	0.00
16,400.00	82.68	179.58	12,267.00	-5,341.05	188.26	5,341.05	0.00	0.00	0.00
16,500.00	82.68	179.58	12,279.74	-5,440.23	188.99	5,440.23	0.00	0.00	0.00
16,600.00	82.68	179.58	12,292.48	-5,539.41	189.72	5,539.41	0.00	0.00	0.00
16,661.09	82.68	179.58	12,300.26	-5,600.00	190.16	5,600.00	0.00	0.00	0.00
5600' VS									
16,700.00	83.46	179.58	12,304.96	-5,638.63	190.44	5,638.63	2.00	2.00	0.00
16,800.00	85.46	179.58	12,314.61	-5,738.15	191.17	5,738.15	2.00	2.00	0.00
16,900.00	87.46	179.58	12,320.79	-5,837.95	191.90	5,837.95	2.00	2.00	0.00
16,920.95	87.88	179.58	12,321.64	-5,858.88	192.06	5,858.88	2.00	2.00	0.00
17,000.00	87.88	179.58	12,324.57	-5,937.88	192.63	5,937.88	0.00	0.00	0.00
17,100.00	87.88	179.58	12,328.28	-6,037.81	193.37	6,037.81	0.00	0.00	0.00
17,200.00	87.88	179.58	12,331.98	-6,137.74	194.10	6,137.74	0.00	0.00	0.00
17,300.00	87.88	179.58	12,335.68	-6,237.67	194.83	6,237.67	0.00	0.00	0.00
17,400.00	87.88	179.58	12,339.39	-6,337.59	195.56	6,337.59	0.00	0.00	0.00
17,500.00	87.88	179.58	12,343.09	-6,437.52	196.29	6,437.52	0.00	0.00	0.00
17,600.00	87.88	179.58	12,346.80	-6,537.45	197.03	6,537.45	0.00	0.00	0.00
17,700.00	87.88	179.58	12,350.50	-6,637.38	197.76	6,637.38	0.00	0.00	0.00
17,800.00	87.88	179.58	12,354.21	-6,737.31	198.49	6,737.31	0.00	0.00	0.00
17,900.00	87.88	179.58	12,357.91	-6,837.24	199.22	6,837.24	0.00	0.00	0.00
18,000.00	87.88	179.58	12,361.61	-6,937.17	199.95	6,937.17	0.00	0.00	0.00



Planning Report

Kaiser-Francis Oil Company

Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 404H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE + 23.5 @ 3541.80usft (CAC 169)
Site:	SEC 1-T23S-R33E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 404H	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)
18,100.00	87.88	179.58	12,365.32	-7,037.09	200.69	7,037.09	0.00	0.00	0.00
18,200.00	87.88	179.58	12,369.02	-7,137.02	201.42	7,137.02	0.00	0.00	0.00
18,300.00	87.88	179.58	12,372.73	-7,236.95	202.15	7,236.95	0.00	0.00	0.00
18,400.00	87.88	179.58	12,376.43	-7,336.88	202.88	7,336.88	0.00	0.00	0.00
18,500.00	87.88	179.58	12,380.13	-7,436.81	203.61	7,436.81	0.00	0.00	0.00
18,600.00	87.88	179.58	12,383.84	-7,536.74	204.35	7,536.74	0.00	0.00	0.00
18,700.00	87.88	179.58	12,387.54	-7,636.67	205.08	7,636.67	0.00	0.00	0.00
18,800.00	87.88	179.58	12,391.25	-7,736.60	205.81	7,736.60	0.00	0.00	0.00
18,900.00	87.88	179.58	12,394.95	-7,836.52	206.54	7,836.52	0.00	0.00	0.00
19,000.00	87.88	179.58	12,398.66	-7,936.45	207.27	7,936.45	0.00	0.00	0.00
19,100.00	87.88	179.58	12,402.36	-8,036.38	208.01	8,036.38	0.00	0.00	0.00
19,200.00	87.88	179.58	12,406.06	-8,136.31	208.74	8,136.31	0.00	0.00	0.00
19,300.00	87.88	179.58	12,409.77	-8,236.24	209.47	8,236.24	0.00	0.00	0.00
19,400.00	87.88	179.58	12,413.47	-8,336.17	210.20	8,336.17	0.00	0.00	0.00
19,500.00	87.88	179.58	12,417.18	-8,436.10	210.93	8,436.10	0.00	0.00	0.00
19,600.00	87.88	179.58	12,420.88	-8,536.03	211.67	8,536.03	0.00	0.00	0.00
19,700.00	87.88	179.58	12,424.58	-8,635.95	212.40	8,635.95	0.00	0.00	0.00
19,711.21	87.88	179.58	12,425.00	-8,647.16	212.48	8,647.16	0.00	0.00	0.00
PBHL 19711.2' MD & 12424' TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP BLUN 404H - hit/miss target center - Shape - Point	0.00	0.00	11,226.43	-510.70	152.88	486,319.81	750,062.39	32.33441130	-103.52372609
FTP BLUN 404H - plan hits target center - Point	0.00	0.00	11,700.00	-927.32	155.93	485,903.19	750,065.44	32.33326608	-103.52372641
PBHL BLUN 404H - plan hits target center - Point	0.00	0.00	12,425.00	-8,647.16	212.48	478,183.35	750,121.99	32.31204557	-103.52373217

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
1,984.21	1,983.06	-24.64	7.38	Hold 7.68° Inc
5,522.18	5,489.26	-477.84	143.04	Start Drop 1.5° DLS
6,034.45	6,000.00	-510.70	152.88	Hold 0° Inc
11,260.88	11,226.43	-510.70	152.88	KOP 12° DLS
11,949.88	11,700.00	-927.31	155.93	LP 11949.8' MD & 11700' TVD
16,661.09	12,300.26	-5,600.00	190.16	5600' VS
19,711.21	12,425.00	-8,647.16	212.48	PBHL 19711.2' MD & 12424' 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 162677

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 162677
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/1/2022