

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. 30-025-47031
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>B</u> : <u>300</u> feet from the <u>North</u> line and <u>2,355</u> feet from the <u>East</u> line Section <u>31</u> Township <u>25S</u> Range <u>33E</u> NMPM County <u>Lea</u>		7. Lease Name or Unit Agreement Name Red Hills Federal
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3409' GR		8. Well Number 505H
9. OGRID Number 12361		10. Pool name or Wildcat WC-025 G-09 S253236A; UPR WOLFCAMP

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 Red Hills Federal 505H be updated to 98158; WC-025 G-09 S253236A; UPR WOLFCAMP.

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
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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 30-025-47031	² Pool Code 98158	³ Pool Name WC-025 G-09 S253236A; UPR WOLFCAMP
⁴ Property Code 5467	⁵ Property Name RED HILLS	⁶ Well Number 505H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3408.8

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
B	31	25 S	33 E		300	NORTH	2355	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	6	26 S	33 E		100	SOUTH	1790	EAST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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>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.</i> Christina Opfer 11/30/22 Signature Date Christina Opfer Printed Name ChristinaO@kfoc.net E-mail Address
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> JUNE 16, 2020 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number: F. J. JARAMELLO-PIS 12797 Survey No. 6447E

Intent ☒ As Drilled ☐

API # 30-025-47031		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 505H

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 B	Section 31	Township 25S	Range 33E	Lot	Feet 100	From N/S NORTH	Feet 1790	From E/W EAST	County LEA
Latitude 32.0939205					Longitude 103.6081627				NAD 27

Last Take Point (LTP)

UL O	Section 6	Township 26S	Range 33E	Lot	Feet 100	From N/S SOUTH	Feet 1790	From E/W EAST	County LEA
Latitude 32.0654466					Longitude 103.6081572				NAD 27

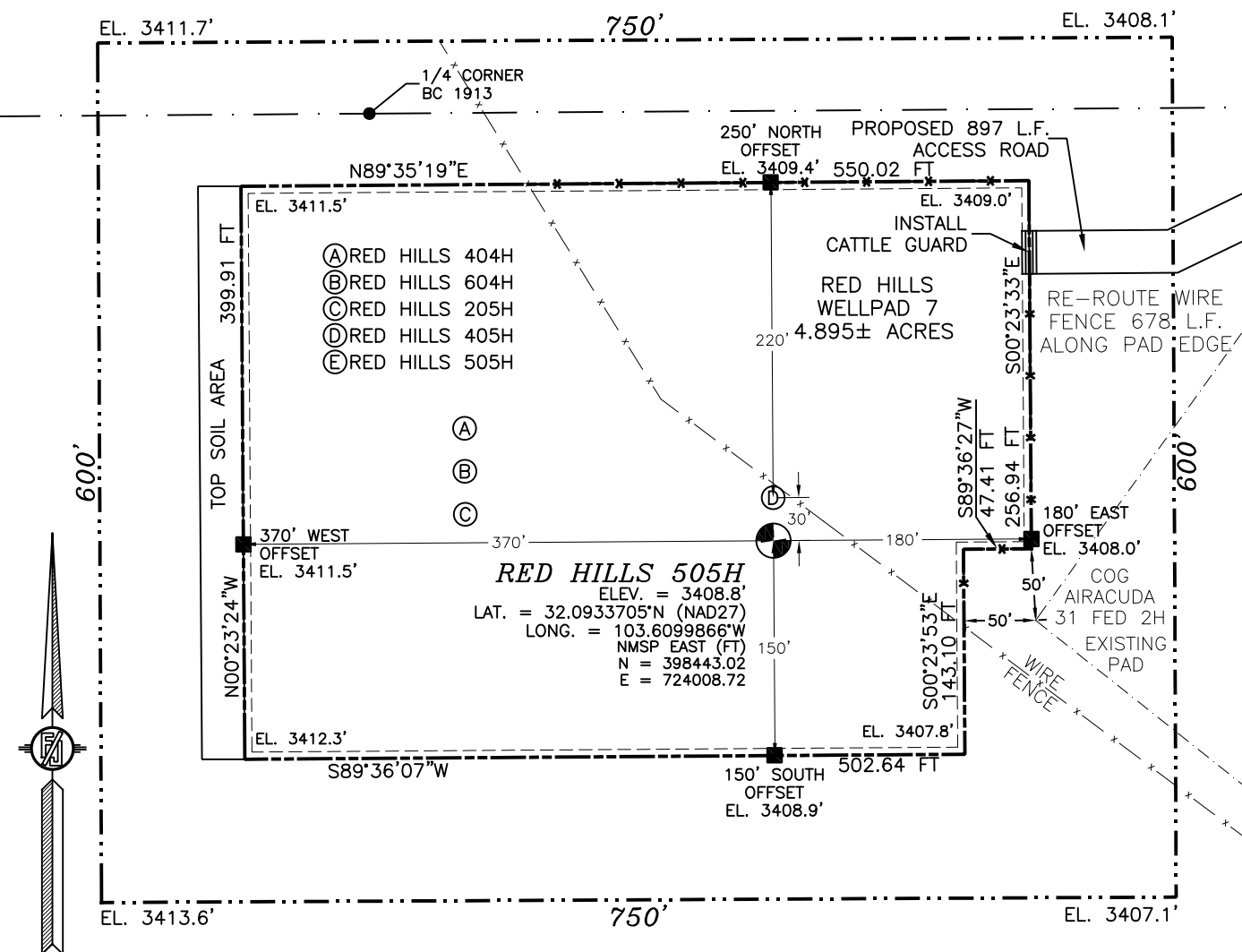
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

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

API # 30-025-45572		
Operator Name: Kaiser-Francis Oil Company	Property Name: Red Hills Federal	Well Number 401H

KZ 06/29/2018

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP



012 60 120 240

SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY. 128 & CO. RD. 1 (ORLA HWY.), GO SOUTH ON CO. RD 1 APPROX. 8.1 MILES, TURN LEFT AND GO EAST ON CALICHE LEASE ROAD APPROX. 2.8 MILES, CONTINUE SOUTHEAST APPROX. 0.65 MILES, CONTINUE EAST APPROX. 0.5 MILES, CONTINUE NORTH APPROX. 0.35 MILES TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY WEST 850' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

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

FILIMON F. JARAMILLO, LICENSED PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

KAISER-FRANCIS OIL COMPANY
RED HILLS 505H
LOCATED 300 FT. FROM THE NORTH LINE
AND 2355 FT. FROM THE EAST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 16, 2020

SURVEY NO. 6447E

CARLSBAD, NEW MEXICO

District I
1625 N. French Dr., Hobbs, NM 88240
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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.

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--	---

Intent ☒ As Drilled ☐

API # 30-025-47031		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 505H

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 B	Section 31	Township 25S	Range 33E	Lot	Feet 100	From N/S NORTH	Feet 1790	From E/W EAST	County LEA
Latitude 32.0940453					Longitude 103.6086342				NAD 83

Last Take Point (LTP)

UL O	Section 6	Township 26S	Range 33E	Lot	Feet 100	From N/S SOUTH	Feet 1790	From E/W EAST	County LEA
Latitude 32.0655715					Longitude 103.6086269				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 # 30-025-45572		
Operator Name: Kaiser-Francis Oil Company	Property Name: Red Hills Federal	Well Number 401H

KZ 06/29/2018

EL. 3411.7' 750' EL. 3408.1'

1/4 CORNER BC 1913

250' NORTH OFFSET EL. 3409.4' 550.02 FT

PROPOSED 897 L.F. ACCESS ROAD

EL. 3411.5'

N89°35'19"E

EL. 3409.0'

INSTALL CATTLE GUARD

RED HILLS WELLPAD 7 4.895± ACRES

RE-ROUTE FENCE 678' ALONG PAD

EL. 3412.3'

TOP SOIL AREA 399.91 FT

N00°23'24"W

370' WEST OFFSET EL. 3411.5'

370'

RED HILLS 505H

ELEV. = 3408.8'

LAT. = 32.0934952°N (NAD83)

LONG. = 103.6104581°W

NMSP EAST (FT)

N = 398500.67

E = 765195.12

220'

30'

180'

150'

502.64 FT

EL. 3407.8'

S89°36'07"W

150' SOUTH OFFSET EL. 3408.9'

50'

50'

S00°23'53"E 143.10 FT

S89°36'27"W 47.41 FT

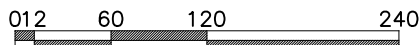
256.94 FT

180' EAST OFFSET EL. 3408.0'

COG AIRACUDA 31 FED 2H EXISTING PAD

WIRE FENCE

EL. 3413.6' 750' EL. 3407.1'



SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY. 128 & CO. RD. 1 (ORLA HWY.), GO SOUTH ON CO. RD 1 APPROX. 8.1 MILES, TURN LEFT AND GO EAST ON CALICHE LEASE ROAD APPROX. 2.8 MILES, CONTINUE SOUTHEAST APPROX. 0.65 MILES, CONTINUE EAST APPROX. 0.5 MILES, CONTINUE NORTH APPROX. 0.35 MILES TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY WEST 850' TO THE NORTHEAST 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 DOES MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL COMPANY
RED HILLS 505H
LOCATED 300 FT. FROM THE NORTH LINE
AND 2355 FT. FROM THE EAST LINE OF
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RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JUNE 16, 2020

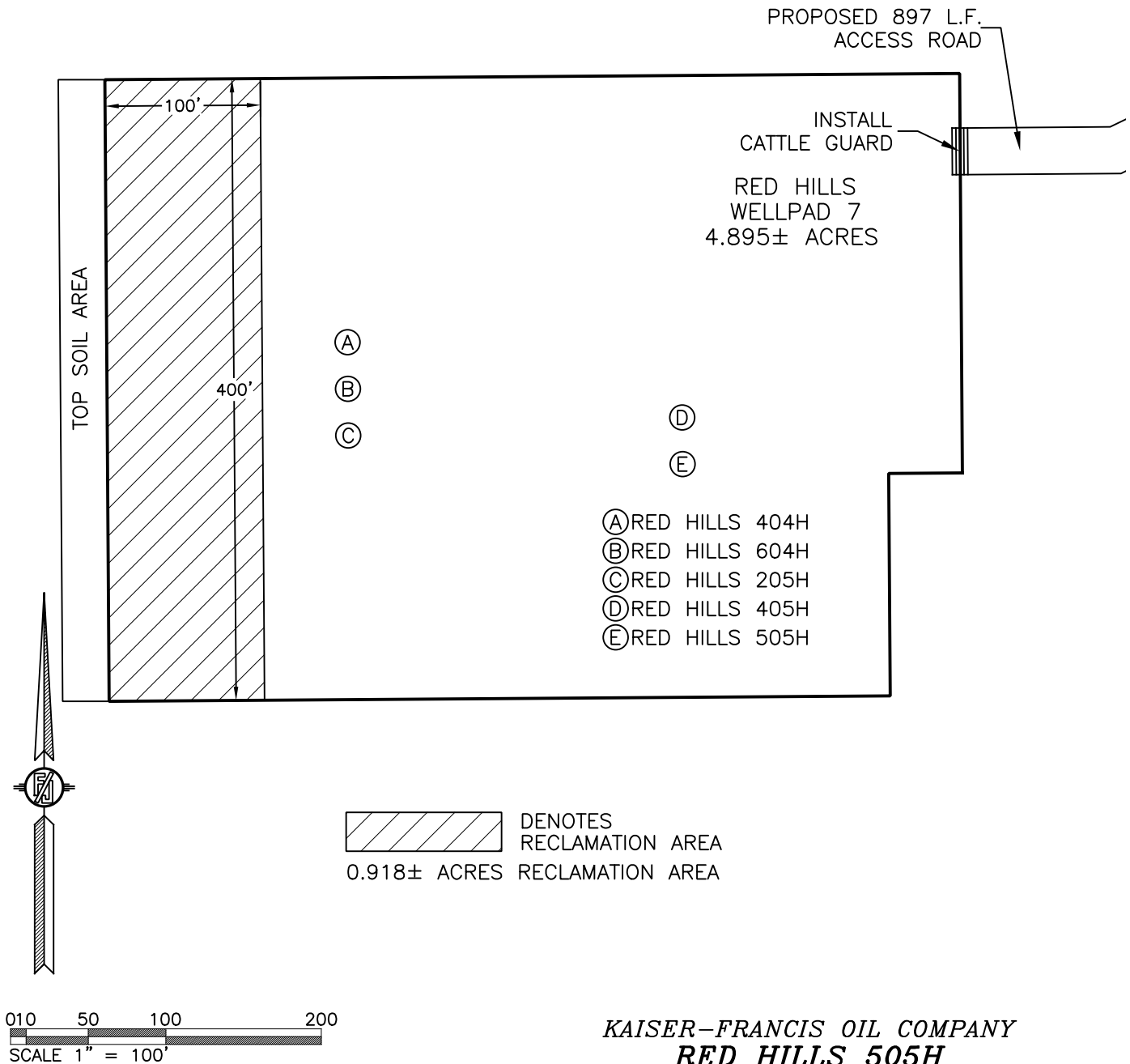
SURVEY NO. 6447E

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



KAISER-FRANCIS OIL COMPANY
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LEA COUNTY, STATE OF NEW MEXICO

JUNE 16, 2020

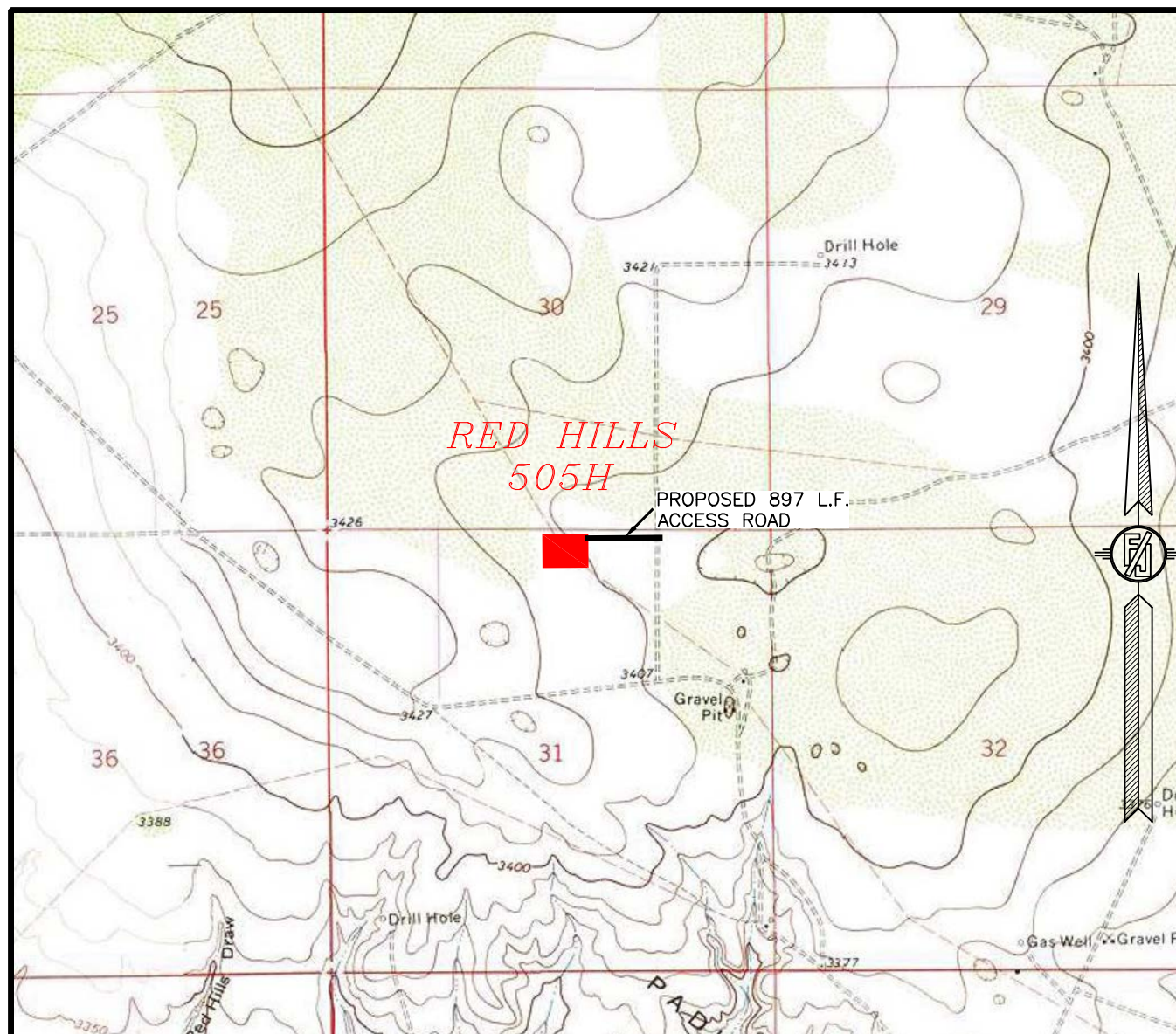
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 6447E

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS EAST

NOT TO SCALE

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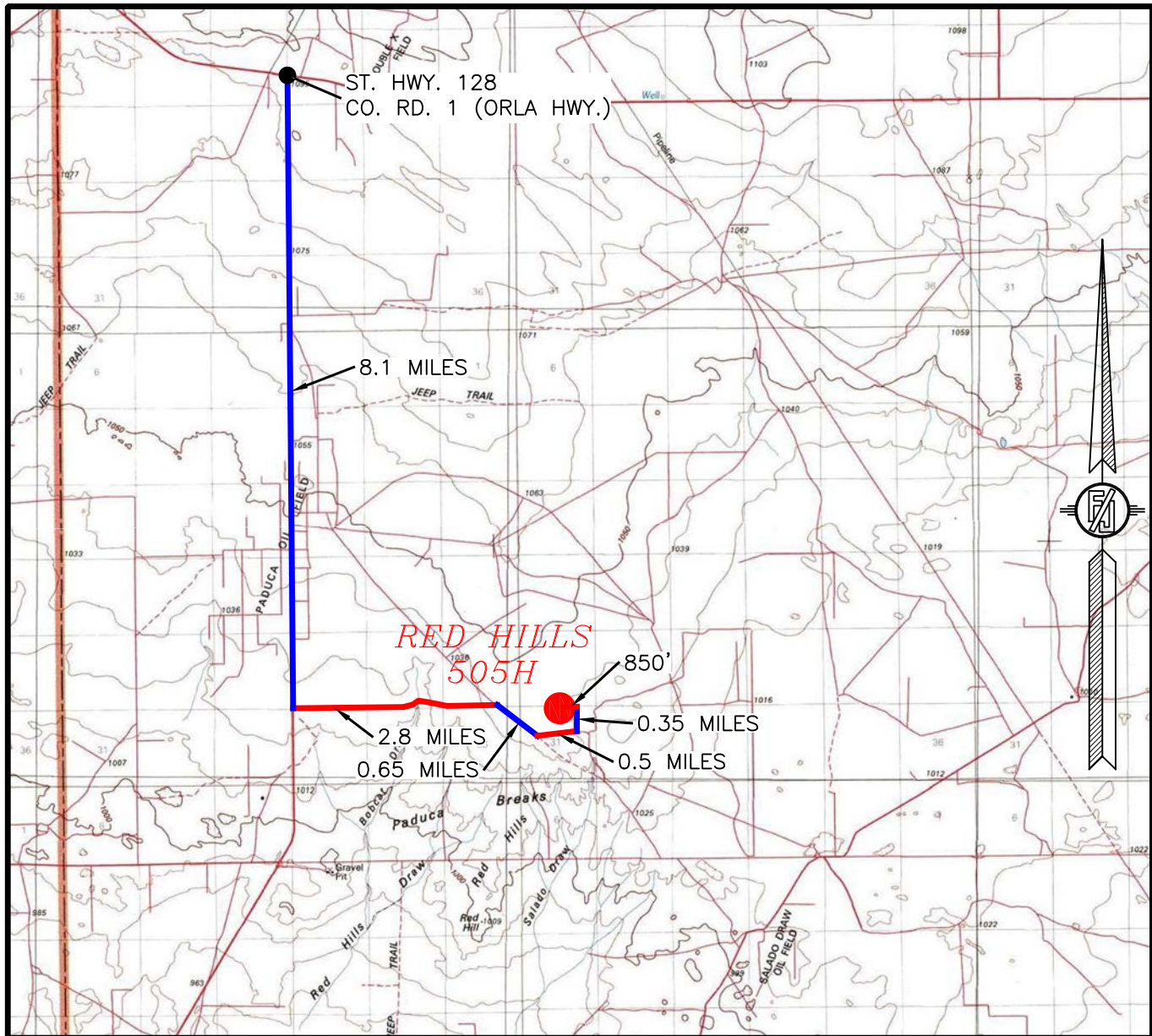
JUNE 16, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 6447E
CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 25 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 & CO. RD. 1 (ORLA HWY.), GO SOUTH ON CO. RD 1 APPROX. 8.1 MILES, TURN LEFT AND GO EAST ON CALICHE LEASE ROAD APPROX. 2.8 MILES, CONTINUE SOUTHEAST APPROX. 0.65 MILES, CONTINUE EAST APPROX. 0.5 MILES, CONTINUE NORTH APPROX. 0.35 MILES TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY WEST 850' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

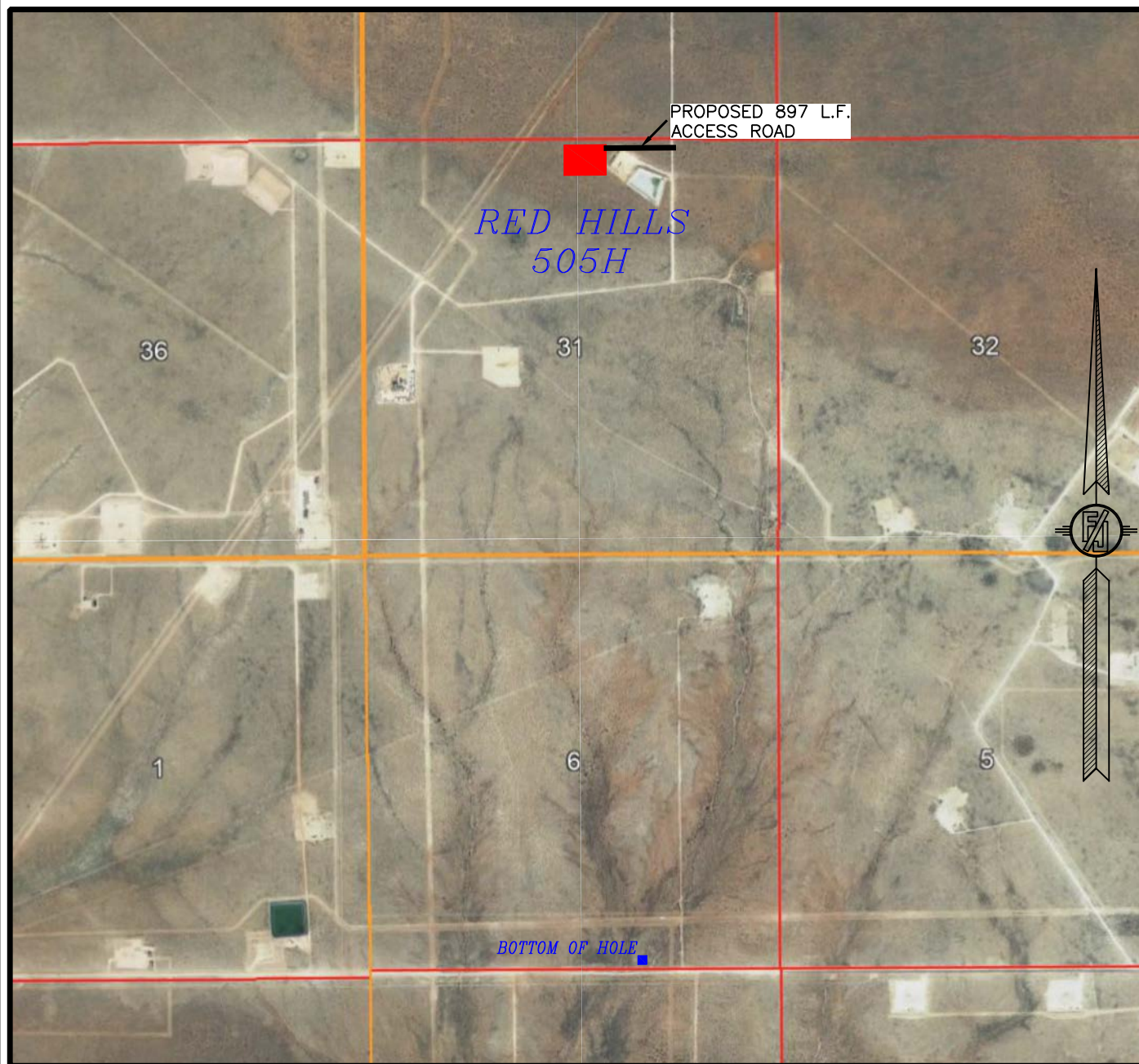
KAISER-FRANCIS OIL COMPANY
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LEA COUNTY, STATE OF NEW MEXICO

JUNE 16, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341SURVEY NO. 6447E
CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEB. 2019

KAISER-FRANCIS OIL COMPANY
RED HILLS 505H
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RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

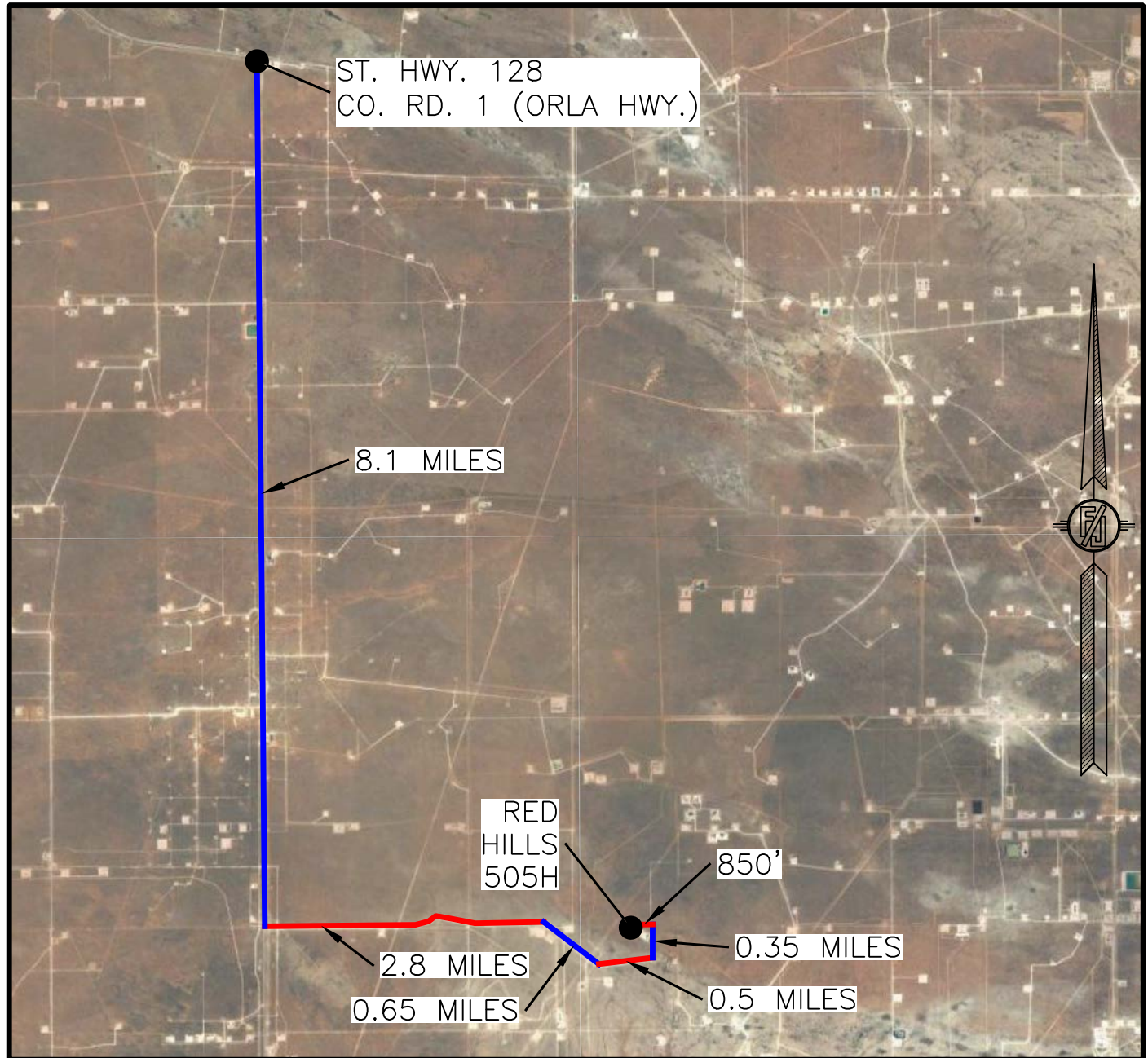
JUNE 16, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 6447E
CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 25 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
FEB. 2019

KAISER-FRANCIS OIL COMPANY
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RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

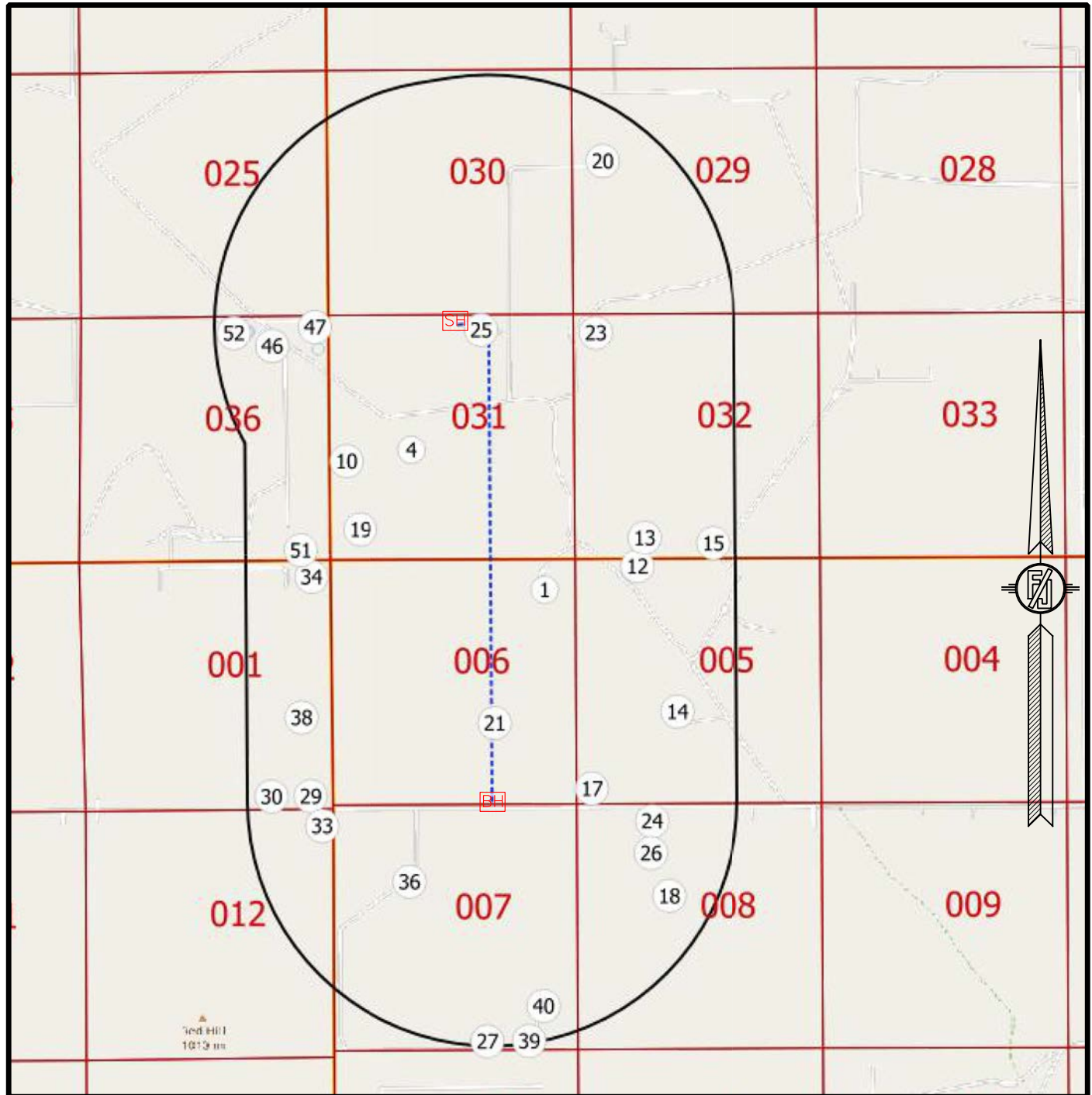
JUNE 16, 2020

SURVEY NO. 6447E

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
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JUNE 16, 2020

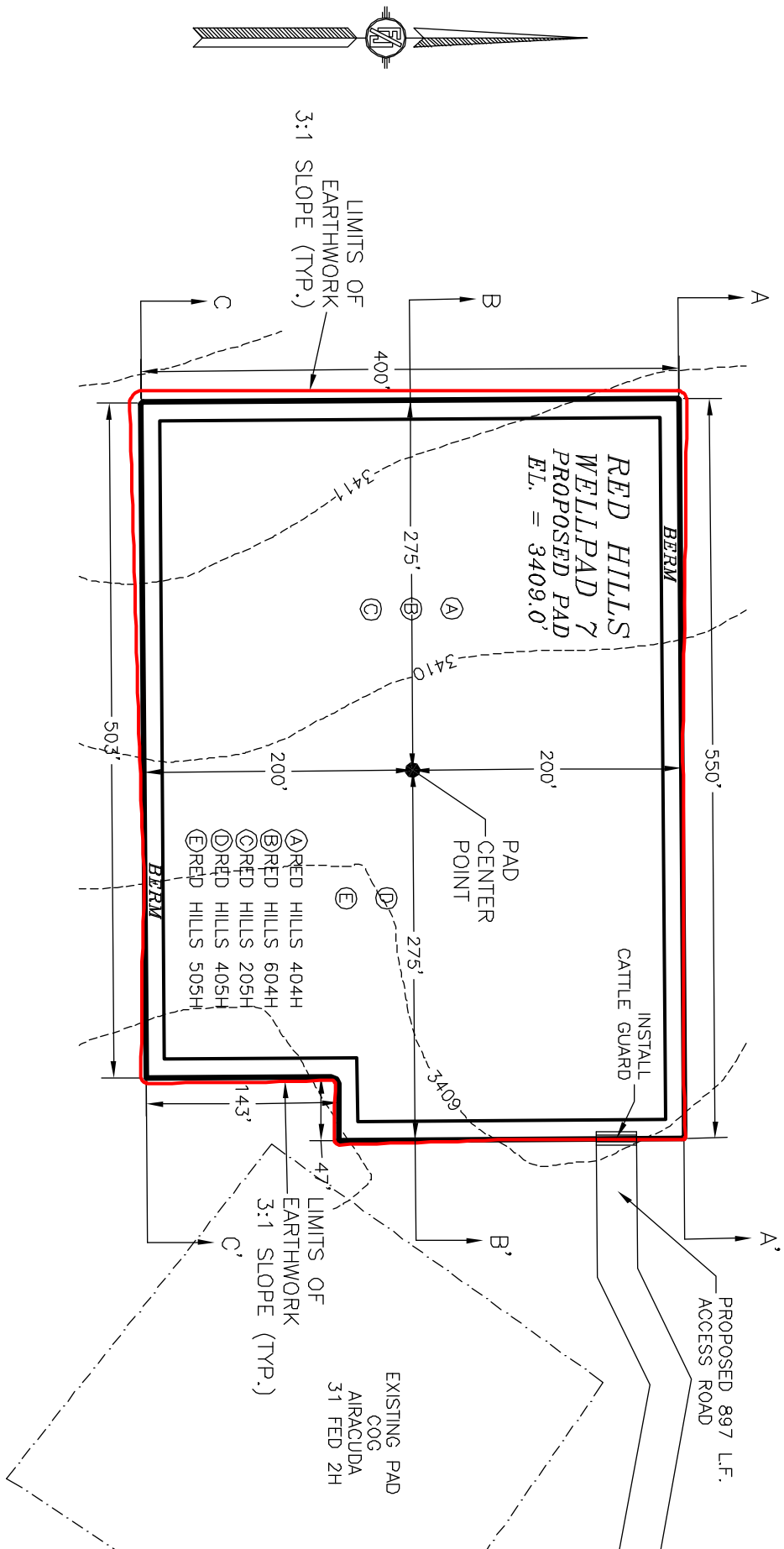
SURVEY NO. 6447E

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO

PLAN VIEW

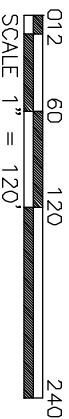


I, FILMON F. JARAMILA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE SURVEYED AND PLANNED EARTHWORK FOR THIS SURVEY, THE PLAN, THE EARTHWORK, AND THE PLAT TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE STANDARDS MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL COMPANY
PAD GRADING AND CROSS SECTIONS
FOR RED HILLS 505H
SECTION 31, TOWNSHIP 26 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
6779 CU. YD.	1275 CU. YD.	5504 CU. YD. (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED



JUNE 16, 2020
301 SOUTH CANAL
(979) 234-3341
CARLSBAD, NEW MEXICO
SURVEY NO. 6447E

PROFESSIONAL SURVEYING, INC.

SECTION 31, TOWNSHIP 26 SOUTH,

RANGE 33 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

KAISER-FRANCIS OIL COMPANY

PAD GRADING AND CROSS SECTIONS

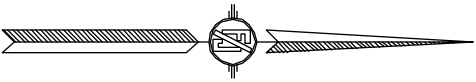
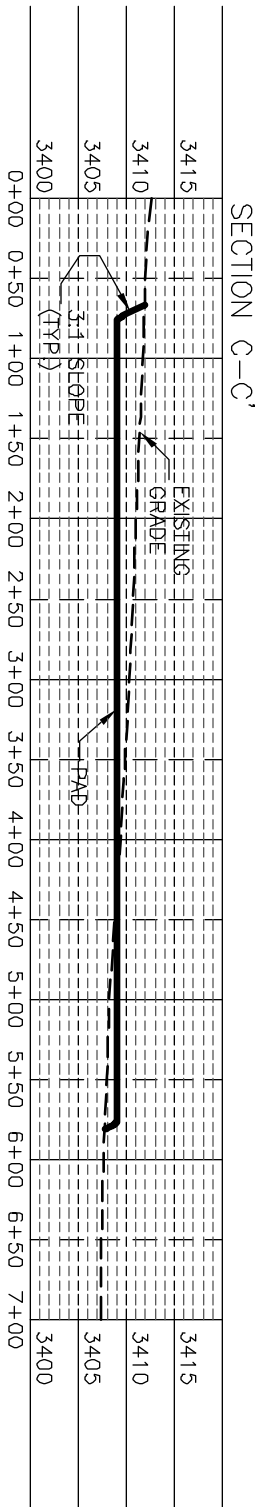
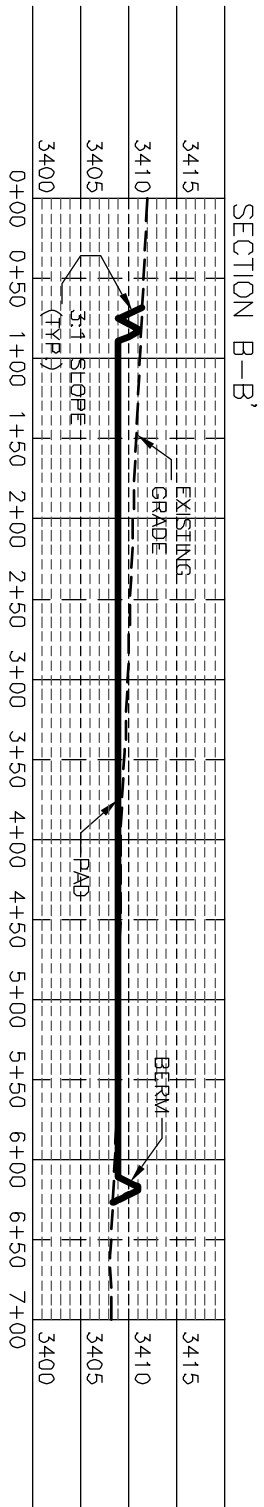
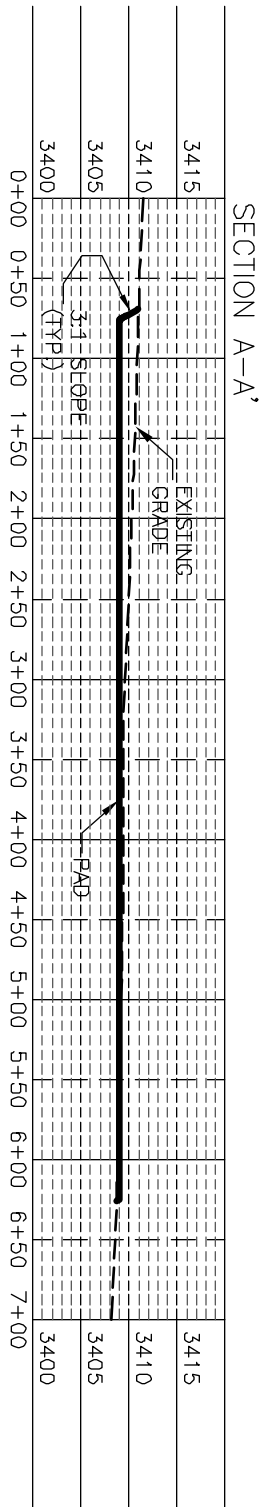
FOR RED HILLS 505H

SECTION 31, TOWNSHIP 26 SOUTH,

RANGE 33 EAST, N.M.P.M.

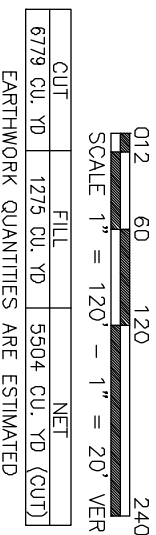
LEA COUNTY, STATE OF NEW MEXICO

CROSS-SECTIONS



I, FILMON F. JARAMA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12299, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEFS, AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

KAISER-FRANCIS OIL COMPANY
PAD GRADING AND CROSS SECTIONS
FOR RED HILLS 505H
SECTION 31, TOWNSHIP 26 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

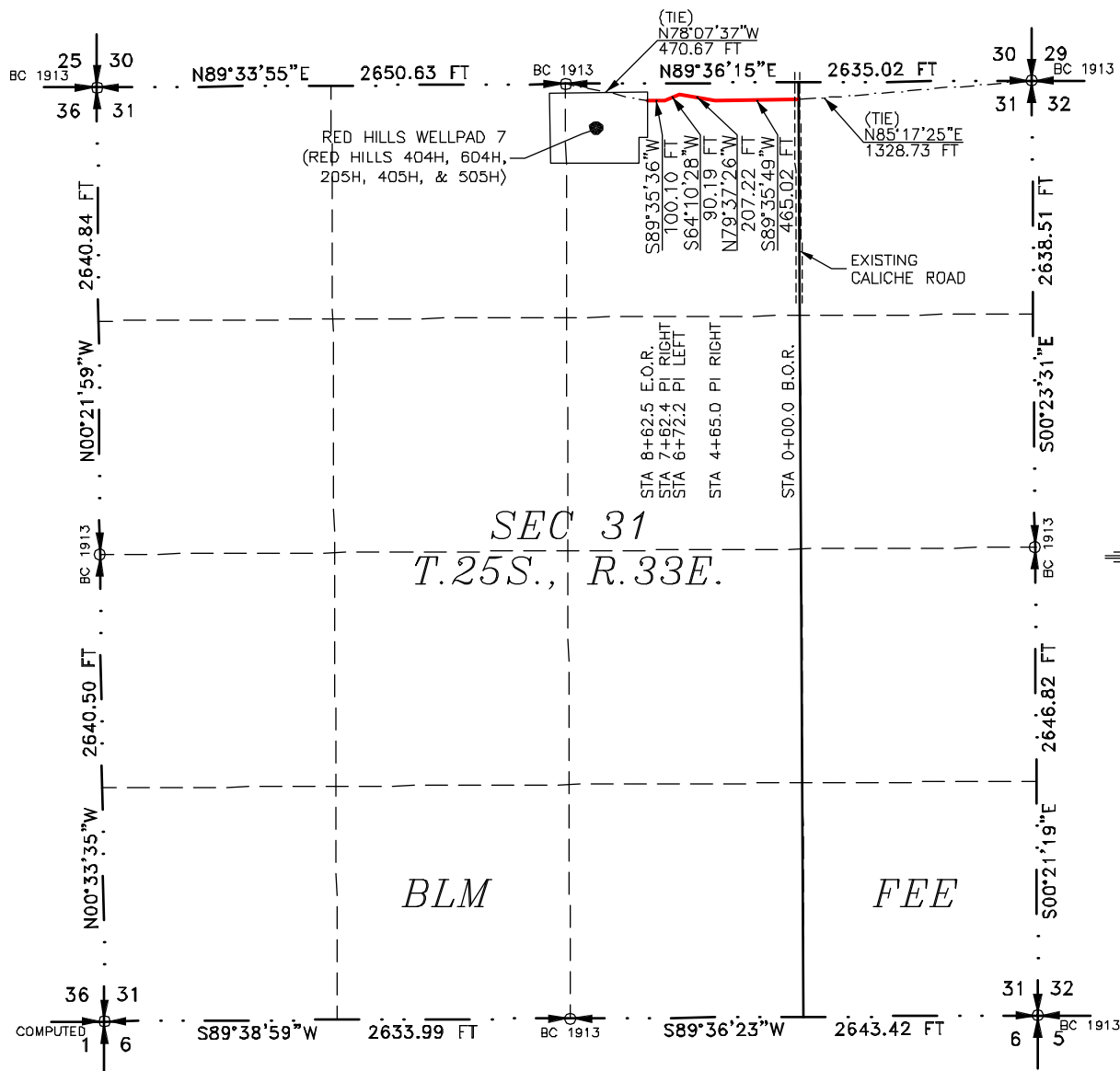


FILMON F. JARAMA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR
JUNE 16, 2020
301 SOUTH CANAL
(979) 234-3341
CARLSBAD, NEW MEXICO
SHEET 2-2
SURVEY NO. 6447E

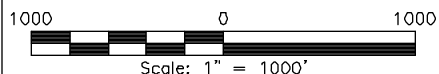
ACCESS ROAD PLAT

ACCESS ROAD FOR RED HILLS WELLPAD 7
(RED HILLS 404H, 604H, 205H, 405H, & 505H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
JUNE 16, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 16th DAY OF JUNE 2020

FILMON F. JARAMILLO, PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 6447E

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR RED HILLS WELLPAD 7
(RED HILLS 404H, 604H, 205H, 405H, & 505H)

KAISER-FRANCIS OIL COMPANY
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
JUNE 16, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 31, TOWNSHIP 25 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 NE/4 OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N85°17'25"E, A DISTANCE OF 1328.73 FEET;
THENCE S89°35'49"W A DISTANCE OF 465.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N79°37'26"W A DISTANCE OF 207.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S64°10'28"W A DISTANCE OF 90.19 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°35'36"W A DISTANCE OF 100.10 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N78°07'37"W, A DISTANCE OF 470.67 FEET;

SAID STRIP OF LAND BEING 862.53 FEET OR 52.27 RODS IN LENGTH, CONTAINING 0.564 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 862.53 L.F. 52.27 RODS 0.564 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 16TH DAY OF JUNE 2020

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

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

SURVEY NO. 6447E

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.

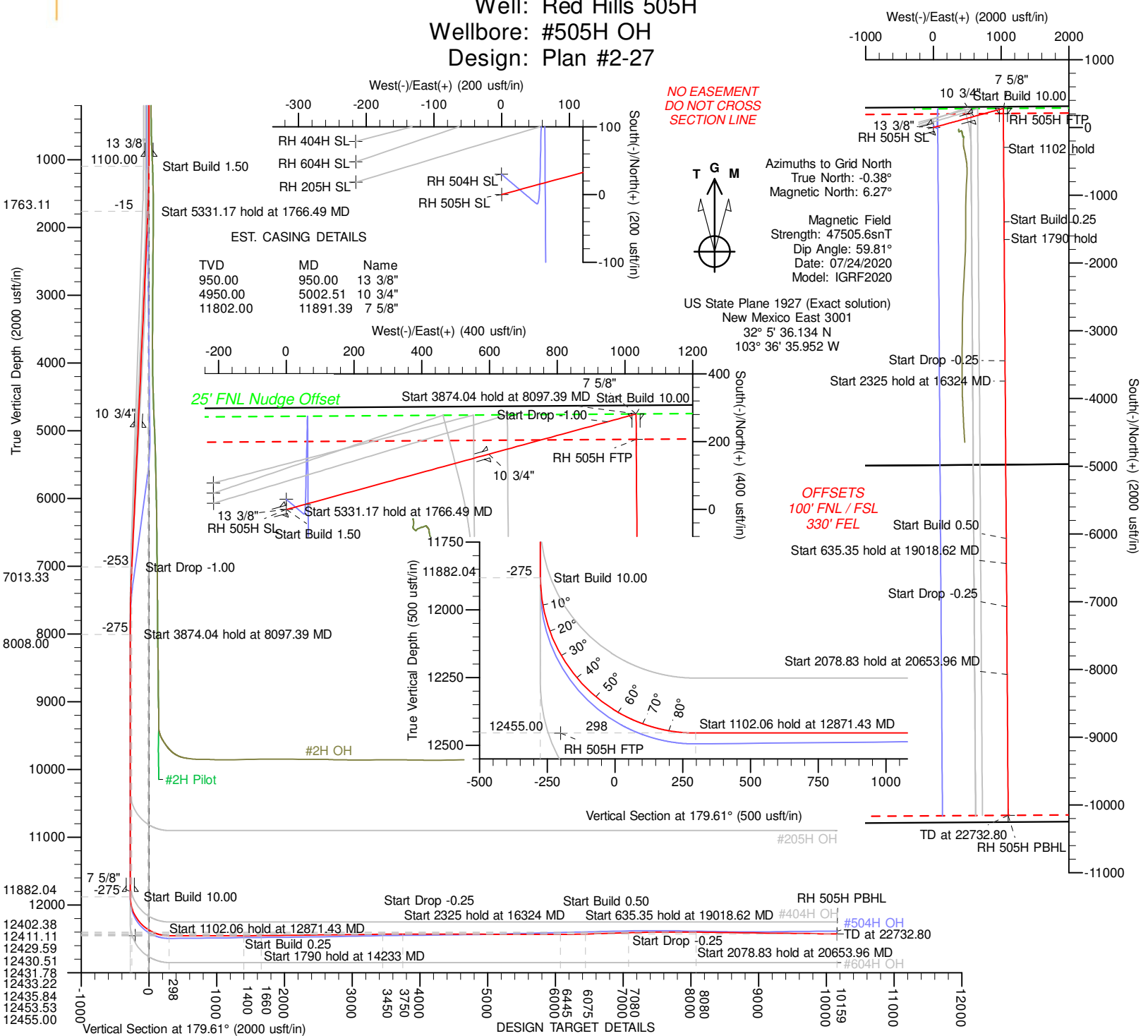
SHEET: 2-2

MADRON SURVEYING, INC.

Design: Plan #2-27



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Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RH 505H SL	0.00	0.00	0.00	398443.02	724008.72	32° 5' 36.134 N 03° 36'	35.952 W
RH 505H PBHL	12429.59	-10151.16	1104.51	388292.19	725113.20	32° 3' 55.610 N 03° 36'	23.908 W
RH 505H FTP	12455.00	207.13	1033.17	398650.14	725041.85	32° 5' 38.115 N 03° 36'	23.927 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
3	1766.49	10.00	74.72	1763.11	15.29	55.95	1.50	74.72	-14.90	
4	7097.66	10.00	74.72	7013.33	259.20	948.73	0.00	0.00	-252.66	
5	8097.39	0.00	0.00	8008.00	282.13	1032.65	1.00	180.00	-275.01	
6	11971.43	0.00	0.00	11882.04	282.13	1032.65	0.00	0.00	-275.01	
7	12871.43	90.00	179.61	12455.00	-290.81	1036.60	10.00	179.61	297.94	
8	13973.49	90.00	179.61	12455.00	-1392.84	1044.19	0.00	0.00	1400.00	
9	14233.49	90.65	179.61	12453.53	-1652.83	1045.98	0.25	0.00	1659.99	
10	16023.61	90.65	179.61	12433.22	-3442.79	1058.31	0.00	0.00	3450.00	
11	116323.61	89.90	179.61	12431.78	-3742.78	1060.38	0.25	180.00	3749.99	
12	18648.62	89.90	179.61	12435.84	-6067.73	1076.39	0.00	0.00	6075.00	
13	1319018.62	91.75	179.61	12430.51	-6437.67	1078.94	0.50	0.00	6444.95	
14	119653.97	91.75	179.61	12411.11	-7072.71	1083.31	0.00	0.00	7080.00	
15	220634.99	89.25	179.61	12402.38	-8072.56	1090.20	0.25	-180.00	8079.88	
16	22732.80	89.25	179.61	12429.59	-10151.16	1104.51	0.00	0.00	10158.53	RH 505H PBHL

S31-T25S-R33E SL
300'FNL 2355'FEL
S31-T25S-R33E FTP
100'FNL 1320'FEL
S6-T26S-R33E PBHL
100'FSL 1320'FEL

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

Project	Permian NM E'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		Using geodetic scale factor

Site	Red Hills Pad 7, Centered on 404H		
Site Position:		Northing:	398,521.45 usft
From:	Map	Easting:	723,793.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.924 N
		Longitude:	103° 36' 38.451 W
		Grid Convergence:	0.38 °

Well	Red Hills 505H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	#505H OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	07/24/20	6.66
			Dip Angle
			(°)
			Field Strength
			(nT)

Design	Plan #2-27		
Audit Notes:	p2-27 for lateral contours; nudge prior to KOP is unchanged - pad proximities are the same as p1		
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
950.00	0.00	0.00	950.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
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	1.50	74.72	1,199.99	0.34	1.26	-0.34	1.50	1.50	0.00
1,300.00	3.00	74.72	1,299.91	1.38	5.05	-1.34	1.50	1.50	0.00
1,400.00	4.50	74.72	1,399.69	3.10	11.36	-3.02	1.50	1.50	0.00
1,500.00	6.00	74.72	1,499.27	5.51	20.19	-5.38	1.50	1.50	0.00
1,600.00	7.50	74.72	1,598.57	8.61	31.52	-8.40	1.50	1.50	0.00
1,700.00	9.00	74.72	1,697.54	12.39	45.36	-12.08	1.50	1.50	0.00
1,766.49	10.00	74.72	1,763.11	15.29	55.95	-14.90	1.50	1.50	0.00
1,800.00	10.00	74.72	1,796.11	16.82	61.56	-16.39	0.00	0.00	0.00
1,900.00	10.00	74.72	1,894.60	21.39	78.31	-20.85	0.00	0.00	0.00
2,000.00	10.00	74.72	1,993.08	25.97	95.05	-25.31	0.00	0.00	0.00
2,100.00	10.00	74.72	2,091.56	30.54	111.80	-29.77	0.00	0.00	0.00
2,200.00	10.00	74.72	2,190.04	35.12	128.55	-34.23	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)
2,300.00	10.00	74.72	2,288.52	39.70	145.29	-38.69	0.00	0.00	0.00
2,400.00	10.00	74.72	2,387.00	44.27	162.04	-43.15	0.00	0.00	0.00
2,500.00	10.00	74.72	2,485.49	48.85	178.79	-47.61	0.00	0.00	0.00
2,600.00	10.00	74.72	2,583.97	53.42	195.53	-52.07	0.00	0.00	0.00
2,700.00	10.00	74.72	2,682.45	58.00	212.28	-56.53	0.00	0.00	0.00
2,800.00	10.00	74.72	2,780.93	62.57	229.03	-60.99	0.00	0.00	0.00
2,900.00	10.00	74.72	2,879.41	67.15	245.77	-65.45	0.00	0.00	0.00
3,000.00	10.00	74.72	2,977.89	71.72	262.52	-69.91	0.00	0.00	0.00
3,100.00	10.00	74.72	3,076.38	76.30	279.26	-74.37	0.00	0.00	0.00
3,200.00	10.00	74.72	3,174.86	80.87	296.01	-78.83	0.00	0.00	0.00
3,300.00	10.00	74.72	3,273.34	85.45	312.76	-83.29	0.00	0.00	0.00
3,400.00	10.00	74.72	3,371.82	90.02	329.50	-87.75	0.00	0.00	0.00
3,500.00	10.00	74.72	3,470.30	94.60	346.25	-92.21	0.00	0.00	0.00
3,600.00	10.00	74.72	3,568.78	99.17	363.00	-96.67	0.00	0.00	0.00
3,700.00	10.00	74.72	3,667.26	103.75	379.74	-101.13	0.00	0.00	0.00
3,800.00	10.00	74.72	3,765.75	108.33	396.49	-105.59	0.00	0.00	0.00
3,900.00	10.00	74.72	3,864.23	112.90	413.24	-110.05	0.00	0.00	0.00
4,000.00	10.00	74.72	3,962.71	117.48	429.98	-114.51	0.00	0.00	0.00
4,100.00	10.00	74.72	4,061.19	122.05	446.73	-118.97	0.00	0.00	0.00
4,200.00	10.00	74.72	4,159.67	126.63	463.48	-123.43	0.00	0.00	0.00
4,300.00	10.00	74.72	4,258.15	131.20	480.22	-127.89	0.00	0.00	0.00
4,400.00	10.00	74.72	4,356.64	135.78	496.97	-132.35	0.00	0.00	0.00
4,500.00	10.00	74.72	4,455.12	140.35	513.72	-136.81	0.00	0.00	0.00
4,600.00	10.00	74.72	4,553.60	144.93	530.46	-141.27	0.00	0.00	0.00
4,700.00	10.00	74.72	4,652.08	149.50	547.21	-145.73	0.00	0.00	0.00
4,800.00	10.00	74.72	4,750.56	154.08	563.96	-150.19	0.00	0.00	0.00
4,900.00	10.00	74.72	4,849.04	158.65	580.70	-154.65	0.00	0.00	0.00
5,000.00	10.00	74.72	4,947.53	163.23	597.45	-159.11	0.00	0.00	0.00
5,002.51	10.00	74.72	4,950.00	163.34	597.87	-159.22	0.00	0.00	0.00
10 3/4"									
5,100.00	10.00	74.72	5,046.01	167.80	614.19	-163.57	0.00	0.00	0.00
5,200.00	10.00	74.72	5,144.49	172.38	630.94	-168.03	0.00	0.00	0.00
5,300.00	10.00	74.72	5,242.97	176.95	647.69	-172.49	0.00	0.00	0.00
5,400.00	10.00	74.72	5,341.45	181.53	664.43	-176.95	0.00	0.00	0.00
5,500.00	10.00	74.72	5,439.93	186.11	681.18	-181.41	0.00	0.00	0.00
5,600.00	10.00	74.72	5,538.41	190.68	697.93	-185.87	0.00	0.00	0.00
5,700.00	10.00	74.72	5,636.90	195.26	714.67	-190.33	0.00	0.00	0.00
5,800.00	10.00	74.72	5,735.38	199.83	731.42	-194.79	0.00	0.00	0.00
5,900.00	10.00	74.72	5,833.86	204.41	748.17	-199.25	0.00	0.00	0.00
6,000.00	10.00	74.72	5,932.34	208.98	764.91	-203.71	0.00	0.00	0.00
6,100.00	10.00	74.72	6,030.82	213.56	781.66	-208.17	0.00	0.00	0.00
6,200.00	10.00	74.72	6,129.30	218.13	798.41	-212.63	0.00	0.00	0.00
6,300.00	10.00	74.72	6,227.79	222.71	815.15	-217.09	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)	
6,400.00	10.00	74.72	6,326.27	227.28	831.90	-221.55	0.00	0.00	0.00	
6,500.00	10.00	74.72	6,424.75	231.86	848.65	-226.01	0.00	0.00	0.00	
6,600.00	10.00	74.72	6,523.23	236.43	865.39	-230.47	0.00	0.00	0.00	
6,700.00	10.00	74.72	6,621.71	241.01	882.14	-234.93	0.00	0.00	0.00	
6,800.00	10.00	74.72	6,720.19	245.58	898.88	-239.39	0.00	0.00	0.00	
6,900.00	10.00	74.72	6,818.68	250.16	915.63	-243.85	0.00	0.00	0.00	
7,000.00	10.00	74.72	6,917.16	254.73	932.38	-248.31	0.00	0.00	0.00	
7,097.66	10.00	74.72	7,013.33	259.20	948.73	-252.66	0.00	0.00	0.00	
7,100.00	9.97	74.72	7,015.64	259.31	949.12	-252.77	1.00	-1.00	0.00	
7,200.00	8.97	74.72	7,114.27	263.65	965.00	-257.00	1.00	-1.00	0.00	
7,300.00	7.97	74.72	7,213.18	267.53	979.22	-260.78	1.00	-1.00	0.00	
7,400.00	6.97	74.72	7,312.33	270.96	991.76	-264.12	1.00	-1.00	0.00	
7,500.00	5.97	74.72	7,411.69	273.93	1,002.64	-267.02	1.00	-1.00	0.00	
7,600.00	4.97	74.72	7,511.23	276.45	1,011.84	-269.47	1.00	-1.00	0.00	
7,700.00	3.97	74.72	7,610.93	278.50	1,019.37	-271.47	1.00	-1.00	0.00	
7,800.00	2.97	74.72	7,710.74	280.10	1,025.21	-273.03	1.00	-1.00	0.00	
7,900.00	1.97	74.72	7,810.65	281.24	1,029.38	-274.14	1.00	-1.00	0.00	
8,000.00	0.97	74.72	7,910.61	281.91	1,031.86	-274.80	1.00	-1.00	0.00	
8,097.39	0.00	0.00	8,008.00	282.13	1,032.66	-275.01	1.00	-1.00	0.00	
8,100.00	0.00	0.00	8,010.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,110.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,210.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,310.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,410.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,510.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,610.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,710.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,810.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,910.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,010.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,110.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,210.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,310.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,410.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,510.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,610.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,710.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,810.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,910.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,010.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,110.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,210.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,310.61	282.13	1,032.66	-275.01	0.00	0.00	0.00	

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)
10,500.00	0.00	0.00	10,410.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
10,600.00	0.00	0.00	10,510.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
10,700.00	0.00	0.00	10,610.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
10,800.00	0.00	0.00	10,710.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
10,900.00	0.00	0.00	10,810.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,000.00	0.00	0.00	10,910.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,100.00	0.00	0.00	11,010.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,200.00	0.00	0.00	11,110.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,300.00	0.00	0.00	11,210.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,400.00	0.00	0.00	11,310.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,500.00	0.00	0.00	11,410.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,600.00	0.00	0.00	11,510.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,700.00	0.00	0.00	11,610.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,800.00	0.00	0.00	11,710.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,891.39	0.00	0.00	11,802.00	282.13	1,032.66	-275.01	0.00	0.00	0.00
7 5/8"									
11,900.00	0.00	0.00	11,810.61	282.13	1,032.66	-275.01	0.00	0.00	0.00
11,971.43	0.00	0.00	11,882.04	282.13	1,032.66	-275.01	0.00	0.00	0.00
12,000.00	2.86	179.61	11,910.60	281.42	1,032.66	-274.30	10.00	10.00	0.00
12,050.00	7.86	179.61	11,960.36	276.75	1,032.69	-269.63	10.00	10.00	0.00
12,100.00	12.86	179.61	12,009.53	267.77	1,032.75	-260.65	10.00	10.00	0.00
12,150.00	17.86	179.61	12,057.73	254.53	1,032.85	-247.41	10.00	10.00	0.00
12,200.00	22.86	179.61	12,104.59	237.14	1,032.96	-230.02	10.00	10.00	0.00
12,250.00	27.86	179.61	12,149.76	215.74	1,033.11	-208.62	10.00	10.00	0.00
12,300.00	32.86	179.61	12,192.89	190.48	1,033.29	-183.36	10.00	10.00	0.00
12,350.00	37.86	179.61	12,233.66	161.55	1,033.49	-154.43	10.00	10.00	0.00
12,400.00	42.86	179.61	12,271.75	129.19	1,033.71	-122.07	10.00	10.00	0.00
12,450.00	47.86	179.61	12,306.87	93.63	1,033.95	-86.50	10.00	10.00	0.00
12,500.00	52.86	179.61	12,338.76	55.14	1,034.22	-48.01	10.00	10.00	0.00
12,550.00	57.86	179.61	12,367.18	14.02	1,034.50	-6.89	10.00	10.00	0.00
12,600.00	62.86	179.61	12,391.90	-29.42	1,034.80	36.55	10.00	10.00	0.00
12,650.00	67.86	179.61	12,412.74	-74.86	1,035.11	81.98	10.00	10.00	0.00
12,700.00	72.86	179.61	12,429.54	-121.93	1,035.44	129.06	10.00	10.00	0.00
12,750.00	77.86	179.61	12,442.18	-170.29	1,035.77	177.42	10.00	10.00	0.00
12,800.00	82.86	179.61	12,450.55	-219.57	1,036.11	226.70	10.00	10.00	0.00
12,850.00	87.86	179.61	12,454.60	-269.38	1,036.45	276.52	10.00	10.00	0.00
12,871.43	90.00	179.61	12,455.00	-290.81	1,036.60	297.94	10.00	10.00	0.00
12,900.00	90.00	179.61	12,455.00	-319.38	1,036.80	326.51	0.00	0.00	0.00
13,000.00	90.00	179.61	12,455.00	-419.38	1,037.49	426.51	0.00	0.00	0.00
13,100.00	90.00	179.61	12,455.00	-519.37	1,038.18	526.51	0.00	0.00	0.00
13,200.00	90.00	179.61	12,455.00	-619.37	1,038.86	626.51	0.00	0.00	0.00
13,300.00	90.00	179.61	12,455.00	-719.37	1,039.55	726.51	0.00	0.00	0.00
13,400.00	90.00	179.61	12,455.00	-819.37	1,040.24	826.51	0.00	0.00	0.00
13,500.00	90.00	179.61	12,455.00	-919.36	1,040.93	926.51	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)
13,600.00	90.00	179.61	12,455.00	-1,019.36	1,041.62	1,026.51	0.00	0.00	0.00
13,700.00	90.00	179.61	12,455.00	-1,119.36	1,042.31	1,126.51	0.00	0.00	0.00
13,800.00	90.00	179.61	12,455.00	-1,219.36	1,043.00	1,226.51	0.00	0.00	0.00
13,900.00	90.00	179.61	12,455.00	-1,319.35	1,043.68	1,326.51	0.00	0.00	0.00
13,973.49	90.00	179.61	12,455.00	-1,392.84	1,044.19	1,400.00	0.00	0.00	0.00
14,000.00	90.07	179.61	12,454.98	-1,419.35	1,044.37	1,426.51	0.25	0.25	0.00
14,100.00	90.32	179.61	12,454.65	-1,519.35	1,045.06	1,526.51	0.25	0.25	0.00
14,200.00	90.57	179.61	12,453.88	-1,619.34	1,045.75	1,626.51	0.25	0.25	0.00
14,233.49	90.65	179.61	12,453.53	-1,652.83	1,045.98	1,659.99	0.25	0.25	0.00
14,300.00	90.65	179.61	12,452.77	-1,719.34	1,046.44	1,726.50	0.00	0.00	0.00
14,400.00	90.65	179.61	12,451.64	-1,819.33	1,047.13	1,826.50	0.00	0.00	0.00
14,500.00	90.65	179.61	12,450.50	-1,919.32	1,047.82	1,926.49	0.00	0.00	0.00
14,600.00	90.65	179.61	12,449.37	-2,019.31	1,048.51	2,026.48	0.00	0.00	0.00
14,700.00	90.65	179.61	12,448.23	-2,119.30	1,049.19	2,126.48	0.00	0.00	0.00
14,800.00	90.65	179.61	12,447.10	-2,219.29	1,049.88	2,226.47	0.00	0.00	0.00
14,900.00	90.65	179.61	12,445.96	-2,319.28	1,050.57	2,326.46	0.00	0.00	0.00
15,000.00	90.65	179.61	12,444.83	-2,419.27	1,051.26	2,426.46	0.00	0.00	0.00
15,100.00	90.65	179.61	12,443.70	-2,519.26	1,051.95	2,526.45	0.00	0.00	0.00
15,200.00	90.65	179.61	12,442.56	-2,619.26	1,052.64	2,626.44	0.00	0.00	0.00
15,300.00	90.65	179.61	12,441.43	-2,719.25	1,053.33	2,726.44	0.00	0.00	0.00
15,400.00	90.65	179.61	12,440.29	-2,819.24	1,054.01	2,826.43	0.00	0.00	0.00
15,500.00	90.65	179.61	12,439.16	-2,919.23	1,054.70	2,926.42	0.00	0.00	0.00
15,600.00	90.65	179.61	12,438.02	-3,019.22	1,055.39	3,026.42	0.00	0.00	0.00
15,700.00	90.65	179.61	12,436.89	-3,119.21	1,056.08	3,126.41	0.00	0.00	0.00
15,800.00	90.65	179.61	12,435.75	-3,219.20	1,056.77	3,226.40	0.00	0.00	0.00
15,900.00	90.65	179.61	12,434.62	-3,319.19	1,057.46	3,326.40	0.00	0.00	0.00
16,000.00	90.65	179.61	12,433.49	-3,419.19	1,058.15	3,426.39	0.00	0.00	0.00
16,023.61	90.65	179.61	12,433.22	-3,442.79	1,058.31	3,450.00	0.00	0.00	0.00
16,100.00	90.46	179.61	12,432.48	-3,519.18	1,058.84	3,526.39	0.25	-0.25	0.00
16,200.00	90.21	179.61	12,431.90	-3,619.17	1,059.52	3,626.39	0.25	-0.25	0.00
16,300.00	89.96	179.61	12,431.75	-3,719.17	1,060.21	3,726.39	0.25	-0.25	0.00
16,323.61	89.90	179.61	12,431.78	-3,742.78	1,060.38	3,749.99	0.25	-0.25	0.00
16,400.00	89.90	179.61	12,431.91	-3,819.17	1,060.90	3,826.38	0.00	0.00	0.00
16,500.00	89.90	179.61	12,432.09	-3,919.17	1,061.59	3,926.38	0.00	0.00	0.00
16,600.00	89.90	179.61	12,432.26	-4,019.16	1,062.28	4,026.38	0.00	0.00	0.00
16,700.00	89.90	179.61	12,432.43	-4,119.16	1,062.97	4,126.38	0.00	0.00	0.00
16,800.00	89.90	179.61	12,432.61	-4,219.16	1,063.66	4,226.38	0.00	0.00	0.00
16,900.00	89.90	179.61	12,432.78	-4,319.16	1,064.34	4,326.38	0.00	0.00	0.00
17,000.00	89.90	179.61	12,432.96	-4,419.15	1,065.03	4,426.38	0.00	0.00	0.00
17,100.00	89.90	179.61	12,433.13	-4,519.15	1,065.72	4,526.38	0.00	0.00	0.00
17,200.00	89.90	179.61	12,433.31	-4,619.15	1,066.41	4,626.38	0.00	0.00	0.00
17,300.00	89.90	179.61	12,433.48	-4,719.15	1,067.10	4,726.38	0.00	0.00	0.00
17,400.00	89.90	179.61	12,433.66	-4,819.14	1,067.79	4,826.38	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)
17,500.00	89.90	179.61	12,433.83	-4,919.14	1,068.48	4,926.38	0.00	0.00	0.00
17,600.00	89.90	179.61	12,434.01	-5,019.14	1,069.17	5,026.38	0.00	0.00	0.00
17,700.00	89.90	179.61	12,434.18	-5,119.14	1,069.85	5,126.38	0.00	0.00	0.00
17,800.00	89.90	179.61	12,434.35	-5,219.13	1,070.54	5,226.38	0.00	0.00	0.00
17,900.00	89.90	179.61	12,434.53	-5,319.13	1,071.23	5,326.38	0.00	0.00	0.00
18,000.00	89.90	179.61	12,434.70	-5,419.13	1,071.92	5,426.38	0.00	0.00	0.00
18,100.00	89.90	179.61	12,434.88	-5,519.13	1,072.61	5,526.38	0.00	0.00	0.00
18,200.00	89.90	179.61	12,435.05	-5,619.12	1,073.30	5,626.38	0.00	0.00	0.00
18,300.00	89.90	179.61	12,435.23	-5,719.12	1,073.99	5,726.38	0.00	0.00	0.00
18,400.00	89.90	179.61	12,435.40	-5,819.12	1,074.68	5,826.38	0.00	0.00	0.00
18,500.00	89.90	179.61	12,435.58	-5,919.12	1,075.36	5,926.38	0.00	0.00	0.00
18,600.00	89.90	179.61	12,435.75	-6,019.11	1,076.05	6,026.38	0.00	0.00	0.00
18,648.62	89.90	179.61	12,435.84	-6,067.73	1,076.39	6,075.00	0.00	0.00	0.00
18,700.00	90.16	179.61	12,435.81	-6,119.11	1,076.74	6,126.38	0.50	0.50	0.00
18,800.00	90.66	179.61	12,435.10	-6,219.11	1,077.43	6,226.38	0.50	0.50	0.00
18,900.00	91.16	179.61	12,433.52	-6,319.09	1,078.12	6,326.37	0.50	0.50	0.00
19,000.00	91.66	179.61	12,431.06	-6,419.06	1,078.81	6,426.34	0.50	0.50	0.00
19,018.62	91.75	179.61	12,430.51	-6,437.67	1,078.94	6,444.95	0.50	0.50	0.00
19,100.00	91.75	179.61	12,428.02	-6,519.01	1,079.50	6,526.29	0.00	0.00	0.00
19,200.00	91.75	179.61	12,424.97	-6,618.96	1,080.18	6,626.24	0.00	0.00	0.00
19,300.00	91.75	179.61	12,421.92	-6,718.91	1,080.87	6,726.20	0.00	0.00	0.00
19,400.00	91.75	179.61	12,418.86	-6,818.86	1,081.56	6,826.15	0.00	0.00	0.00
19,500.00	91.75	179.61	12,415.81	-6,918.81	1,082.25	6,926.10	0.00	0.00	0.00
19,600.00	91.75	179.61	12,412.75	-7,018.76	1,082.94	7,026.06	0.00	0.00	0.00
19,653.97	91.75	179.61	12,411.11	-7,072.71	1,083.31	7,080.00	0.00	0.00	0.00
19,700.00	91.63	179.61	12,409.75	-7,118.72	1,083.63	7,126.01	0.25	-0.25	0.00
19,800.00	91.38	179.61	12,407.11	-7,218.68	1,084.31	7,225.98	0.25	-0.25	0.00
19,900.00	91.13	179.61	12,404.91	-7,318.65	1,085.00	7,325.95	0.25	-0.25	0.00
20,000.00	90.88	179.61	12,403.15	-7,418.63	1,085.69	7,425.94	0.25	-0.25	0.00
20,100.00	90.63	179.61	12,401.82	-7,518.62	1,086.38	7,525.93	0.25	-0.25	0.00
20,200.00	90.38	179.61	12,400.93	-7,618.62	1,087.07	7,625.92	0.25	-0.25	0.00
20,300.00	90.13	179.61	12,400.48	-7,718.61	1,087.76	7,725.92	0.25	-0.25	0.00
20,400.00	89.88	179.61	12,400.46	-7,818.61	1,088.45	7,825.92	0.25	-0.25	0.00
20,500.00	89.63	179.61	12,400.88	-7,918.61	1,089.14	7,925.92	0.25	-0.25	0.00
20,600.00	89.38	179.61	12,401.74	-8,018.60	1,089.82	8,025.92	0.25	-0.25	0.00
20,653.96	89.25	179.61	12,402.38	-8,072.56	1,090.20	8,079.88	0.25	-0.25	0.00
20,700.00	89.25	179.61	12,402.98	-8,118.59	1,090.51	8,125.91	0.00	0.00	0.00
20,800.00	89.25	179.61	12,404.29	-8,218.58	1,091.20	8,225.90	0.00	0.00	0.00
20,900.00	89.25	179.61	12,405.60	-8,318.57	1,091.89	8,325.89	0.00	0.00	0.00
21,000.00	89.25	179.61	12,406.91	-8,418.56	1,092.58	8,425.88	0.00	0.00	0.00
21,100.00	89.25	179.61	12,408.22	-8,518.55	1,093.27	8,525.88	0.00	0.00	0.00
21,200.00	89.25	179.61	12,409.53	-8,618.54	1,093.96	8,625.87	0.00	0.00	0.00
21,300.00	89.25	179.61	12,410.84	-8,718.53	1,094.65	8,725.86	0.00	0.00	0.00
21,400.00	89.25	179.61	12,412.14	-8,818.52	1,095.33	8,825.85	0.00	0.00	0.00

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 505H
Project:	Permian NM E'27	TVD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Site:	Red Hills Pad 7	MD Reference:	GL+KB @ 3435.00usft (Latshaw 45)
Well:	Red Hills 505H	North Reference:	Grid
Wellbore:	#505H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2-27	Database:	EDM 5k-14

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)
21,500.00	89.25	179.61	12,413.45	-8,918.50	1,096.02	8,925.84	0.00	0.00	0.00
21,600.00	89.25	179.61	12,414.76	-9,018.49	1,096.71	9,025.83	0.00	0.00	0.00
21,700.00	89.25	179.61	12,416.07	-9,118.48	1,097.40	9,125.82	0.00	0.00	0.00
21,800.00	89.25	179.61	12,417.38	-9,218.47	1,098.09	9,225.82	0.00	0.00	0.00
21,900.00	89.25	179.61	12,418.69	-9,318.46	1,098.78	9,325.81	0.00	0.00	0.00
22,000.00	89.25	179.61	12,420.00	-9,418.45	1,099.47	9,425.80	0.00	0.00	0.00
22,100.00	89.25	179.61	12,421.31	-9,518.44	1,100.15	9,525.79	0.00	0.00	0.00
22,200.00	89.25	179.61	12,422.62	-9,618.43	1,100.84	9,625.78	0.00	0.00	0.00
22,300.00	89.25	179.61	12,423.93	-9,718.42	1,101.53	9,725.77	0.00	0.00	0.00
22,400.00	89.25	179.61	12,425.23	-9,818.41	1,102.22	9,825.76	0.00	0.00	0.00
22,500.00	89.25	179.61	12,426.54	-9,918.39	1,102.91	9,925.76	0.00	0.00	0.00
22,600.00	89.25	179.61	12,427.85	-10,018.38	1,103.60	10,025.75	0.00	0.00	0.00
22,700.00	89.25	179.61	12,429.16	-10,118.37	1,104.29	10,125.74	0.00	0.00	0.00
22,732.80	89.25	179.61	12,429.59	-10,151.16	1,104.51	10,158.53	0.00	0.00	0.00

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
950.00	950.00	13 3/8"	13-3/8	17-1/2	
5,002.51	4,950.00	10 3/4"	10-3/4	12-1/4	
11,891.39	11,802.00	7 5/8"	7-5/8	9-7/8	

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Phone:(505) 334-6178 Fax:(505) 334-6170

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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 162660

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 162660
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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