

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. 30-025-45418
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>K</u> : <u>2,400</u> feet from the <u>South</u> line and <u>1,775</u> feet from the <u>West</u> line Section <u>31</u> Township <u>25S</u> Range <u>31E</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.) 3419' GR		8. Well Number 003H
9. OGRID Number 12361		10. Pool name or Wildcat WC-025 G-06 S253329D; UPR BONE

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 003H be updated to 97994; WC-025 G-06 S253329D; UPR BONE SPRIN.

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 IV
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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 30-025-45418		² Pool Code 97994	³ Pool Name WC-025 G-06 S253329D; Upper Bone Spring	
⁴ Property Code 5467	⁵ Property Name RED HILLS			⁶ Well Number 003H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY			⁹ Elevation 3418.6

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
K	31	25 S	33 E		2400	SOUTH	1775	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	26 S	33 E		330	SOUTH	2182	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
240			

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. 31
LAT. = 32.0941881°N
LONG. = 103.6194479°W

NMSP EAST (FT)
N = 398720.94
E = 721076.67

W/4 CORNER SEC. 31
LAT. = 32.0869303°N
LONG. = 103.6194502°W

NMSP EAST (FT)
N = 396080.72
E = 721093.44

SECTION CORNER
LAT. = 32.0796734°N
LONG. = 103.6194237°W

NMSP EAST (FT)
N = 393440.92
E = 721119.12

W/4 CORNER SEC. 6
LAT. = 32.0723022°N
LONG. = 103.6193968°W

NMSP EAST (FT)
N = 390759.53
E = 721145.20

SW CORNER SEC. 6
LAT. = 32.0651678°N
LONG. = 103.6193696°W

NMSP EAST (FT)
N = 388164.29
E = 721170.80

S89°33'55"W 2650.63 FT S89°36'15"W 2635.02 FT

N/4 CORNER SEC. 31
LAT. = 32.0941949°N
LONG. = 103.6108908°W

NMSP EAST (FT)
N = 398741.05
E = 723726.70

TURN POINT
LAT. = 32.0868158°N
LONG. = 103.6124060°W

NMSP EAST (FT)
N = 396053.61
E = 723275.39

SEC. 31

RED HILLS 003H
ELEV. = 3418.6'
LAT. = 32.0862667°N (NAD27)
LONG. = 103.6137178°W

NMSP EAST (FT)
N = 395851.13
E = 722870.43

QUARTER CORNER
LAT. = 32.0796695°N
LONG. = 103.6109216°W

NMSP EAST (FT)
N = 393457.03
E = 723752.53

LATITUDE AND LONGITUDE
VALUES ARE NAD 27
STATE PLANE VALUES ARE
NMSP EAST GRID

SEC. 6

BOTTOM OF HOLE
LAT. = 32.0660772°N
LONG. = 103.6123309°W

NMSP EAST (FT)
N = 388509.62
E = 723349.08

S/4 CORNER SEC. 6
LAT. = 32.0623801°N
LONG. = 103.6023843°W

NMSP EAST (FT)
N = 390830.31
E = 726414.79

SE CORNER SEC. 6
LAT. = 32.0651734°N
LONG. = 103.6023801°W

NMSP EAST (FT)
N = 388201.54
E = 726433.89

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Christina Opfer **12/1/22**

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.

APRIL 18, 2019

Date of Survey

[Signature]

Signature and Seal of Professional Surveyor

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

FILMON F. JARAMILLO
NEW MEXICO
PROFESSIONAL SURVEYOR
PLS 12797

SURVEY NO. 6100C

Intent ☒ As Drilled ☐

API # 30-025-45418		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 003H

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 K	Section 31	Township 25S	Range 33E	Lot	Feet 2600	From N/S SOUTH	Feet 2182	From E/W WEST	County LEA
Latitude 32.0868158					Longitude 103.6124060				NAD 27

Last Take Point (LTP)

UL N	Section 6	Township 26S	Range 33E	Lot	Feet 330	From N/S SOUTH	Feet 2182	From E/W WEST	County LEA
Latitude 32.0660772					Longitude 103.6123309				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 # 30-025-45386		
Operator Name: Kaiser-Francis Oil Company	Property Name: Red Hills Federal	Well Number 001H

KZ 06/29/2018

301 SOUTH CANAL
(575) 234-3341

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240			

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	
NW CORNER SEC. 31 LAT. = 32.0943129°N LONG. = 103.6199197°W NMSP EAST (FT) N = 398778.60 E = 762263.04 W/4 CORNER SEC. 31 LAT. = 32.0870551°N LONG. = 103.6199216°W NMSP EAST (FT) N = 396138.31 E = 762279.92 SECTION CORNER LAT. = 32.0797982°N LONG. = 103.6198947°W NMSP EAST (FT) N = 393498.44 E = 762305.72 W/4 CORNER SEC. 6 LAT. = 32.0724271°N LONG. = 103.6198673°W NMSP EAST (FT) N = 390816.98 E = 762331.92 SW CORNER SEC. 6 LAT. = 32.0652928°N LONG. = 103.6198397°W NMSP EAST (FT) N = 388221.69 E = 762357.64	NE CORNER SEC. 31 LAT. = 32.0943209°N LONG. = 103.6028553°W NMSP EAST (FT) N = 398816.91 E = 767547.55 E/4 CORNER SEC. 31 LAT. = 32.0870695°N LONG. = 103.6028547°W NMSP EAST (FT) N = 396178.96 E = 767565.60 SECTION CORNER LAT. = 32.0797953°N LONG. = 103.6028596°W NMSP EAST (FT) N = 393532.70 E = 767582.02 E/4 CORNER SEC. 6 LAT. = 32.0725247°N LONG. = 103.6028542°W NMSP EAST (FT) N = 390887.75 E = 767601.57 SE CORNER SEC. 6 LAT. = 32.0652983°N LONG. = 103.6028496°W NMSP EAST (FT) N = 388258.92 E = 767620.79
The survey map shows two adjacent sections, Section 31 and Section 6. Section 31 is on the left and contains a 'TURN POINT' and a 'SURFACE LOCATION'. Section 6 is on the right and contains a 'BOTTOM OF HOLE'. The map includes various corner points (NW, NE, SW, SE, E/4) and NMSP (North Magnetic Survey Point) locations. Bearings and distances are provided for all boundary lines. A 'RED HILLS 008H' well location is marked in Section 31. The map also shows section corners and quarter corners.	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Christina Opfer	12/1/22
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.	
APRIL 18, 2019 Date of Survey	
JULIUM F. JARAMILLO NEW MEXICO REG. NO. 12797 Signature and Seal of Professional Surveyor:	
Certificate Number: JULIUM F. JARAMILLO, PLS 12797	
SURVEY NO. 6100C	

Intent ☒ As Drilled ☐

API # 30-025-45418		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 003H

Kick Off Point (KOP)

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

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UL K	Section 31	Township 25S	Range 33E	Lot	Feet 2600	From N/S SOUTH	Feet 2182	From E/W WEST	County LEA
Latitude 32.0869406					Longitude 103.6128772			NAD 83	

Last Take Point (LTP)

UL N	Section 6	Township 26S	Range 33E	Lot	Feet 330	From N/S SOUTH	Feet 2182	From E/W WEST	County LEA
Latitude 32.0662022					Longitude 103.6128008			NAD 83	

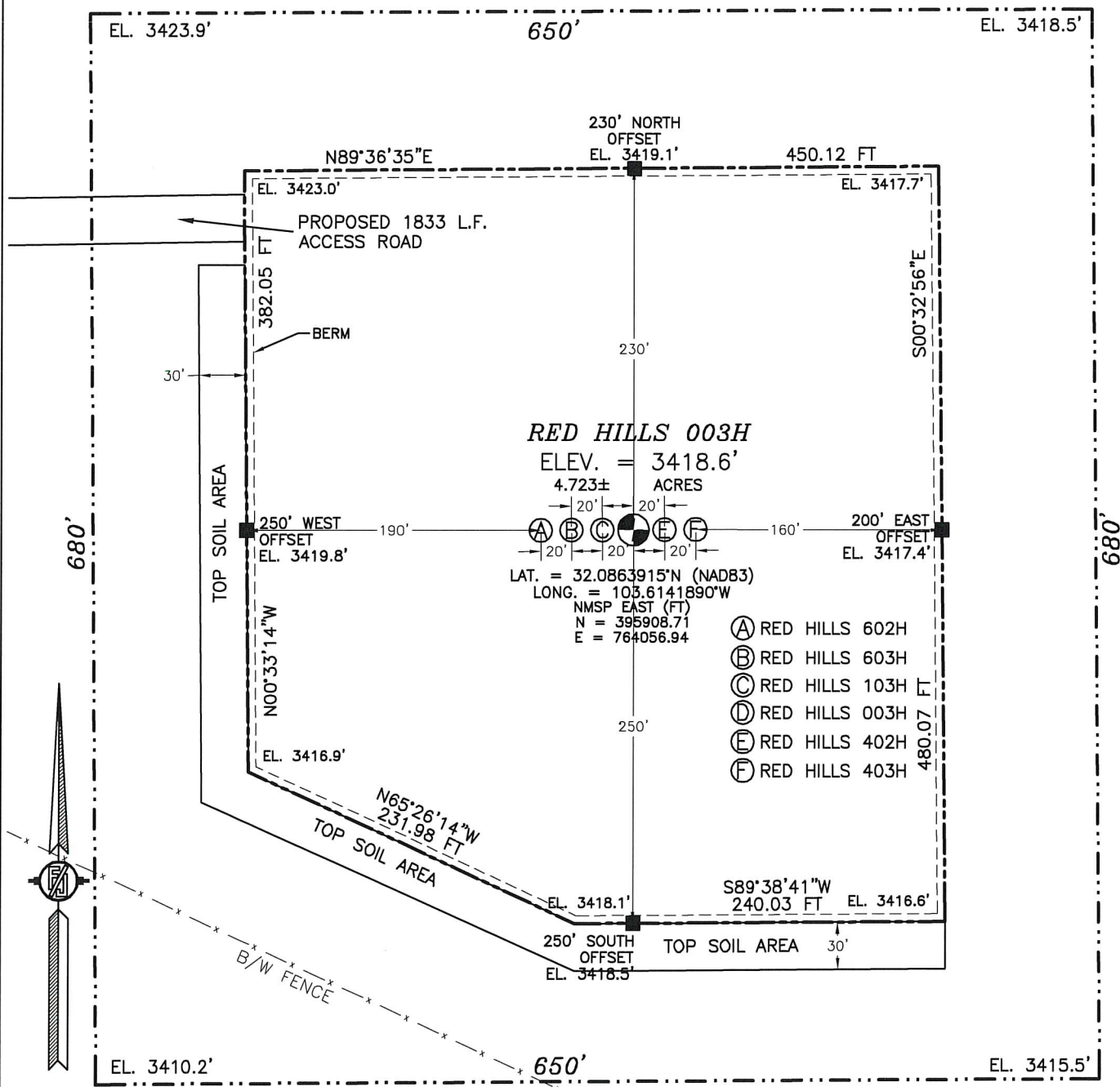
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

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

API # 30-025-45386		
Operator Name: Kaiser-Francis Oil Company	Property Name: Red Hills Federal	Well Number 001H

KZ 06/29/2018

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



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR. 1 (ORLA HWY.) AND MONSANTO ROAD, GO SOUTH ON CR. 1 2.1 MILES TO A CALICHE ROAD ON LEFT (EAST), TURN LEFT AND GO EAST ON CALICHE ROAD 2.72 MILES TO A "Y" INTERSECTION, BEAR RIGHT (SOUTHEAST) AND GO SOUTHEAST 0.57 MILE TO A ROAD SURVEY ON RIGHT (SOUTH), FOLLOW ROAD SURVEY SOUTH 930' THEN EAST 903' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

KAISER-FRANCIS OIL COMPANY
RED HILLS 003H

LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 18, 2019

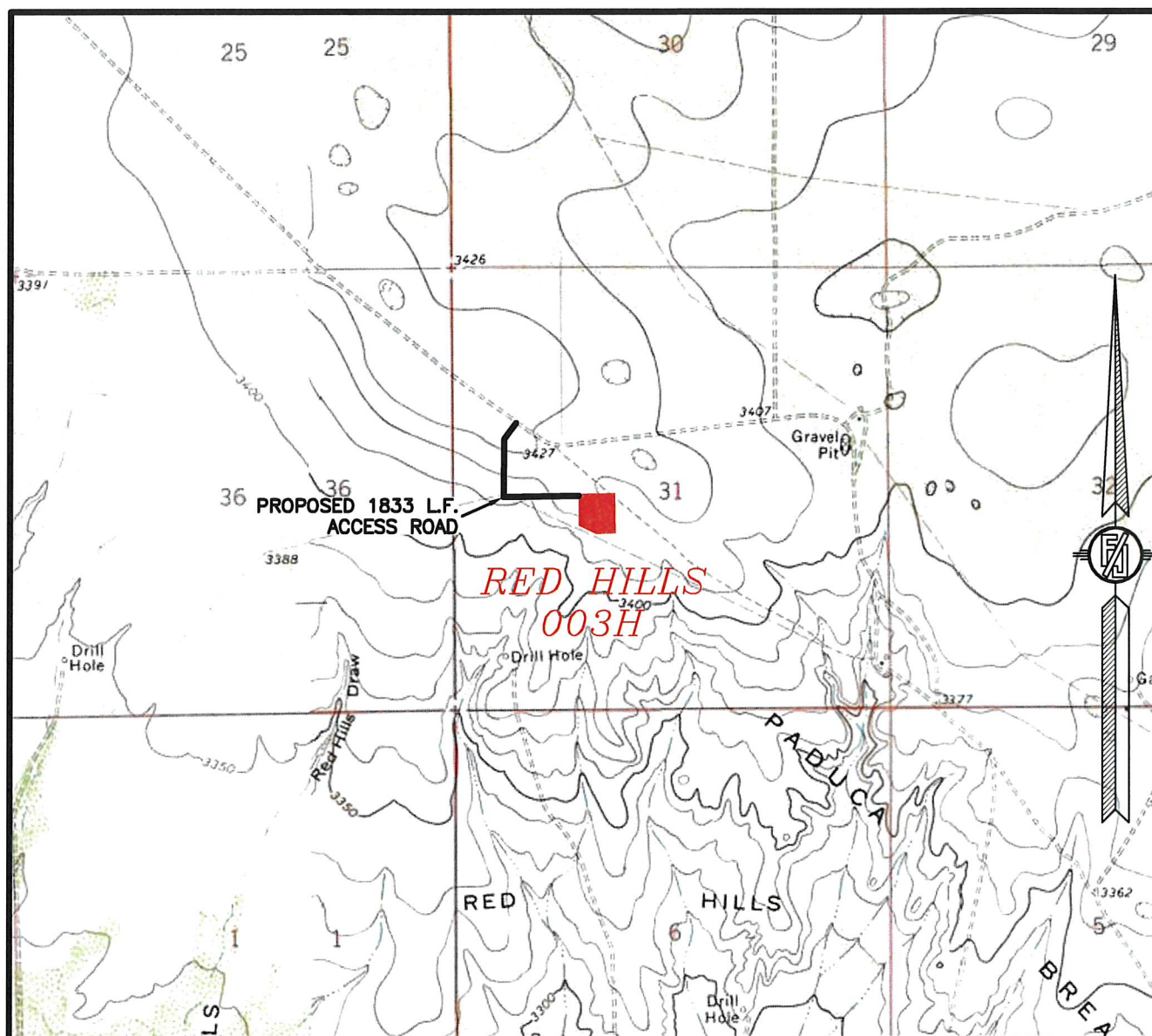
SURVEY NO. 6100C

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
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS EAST

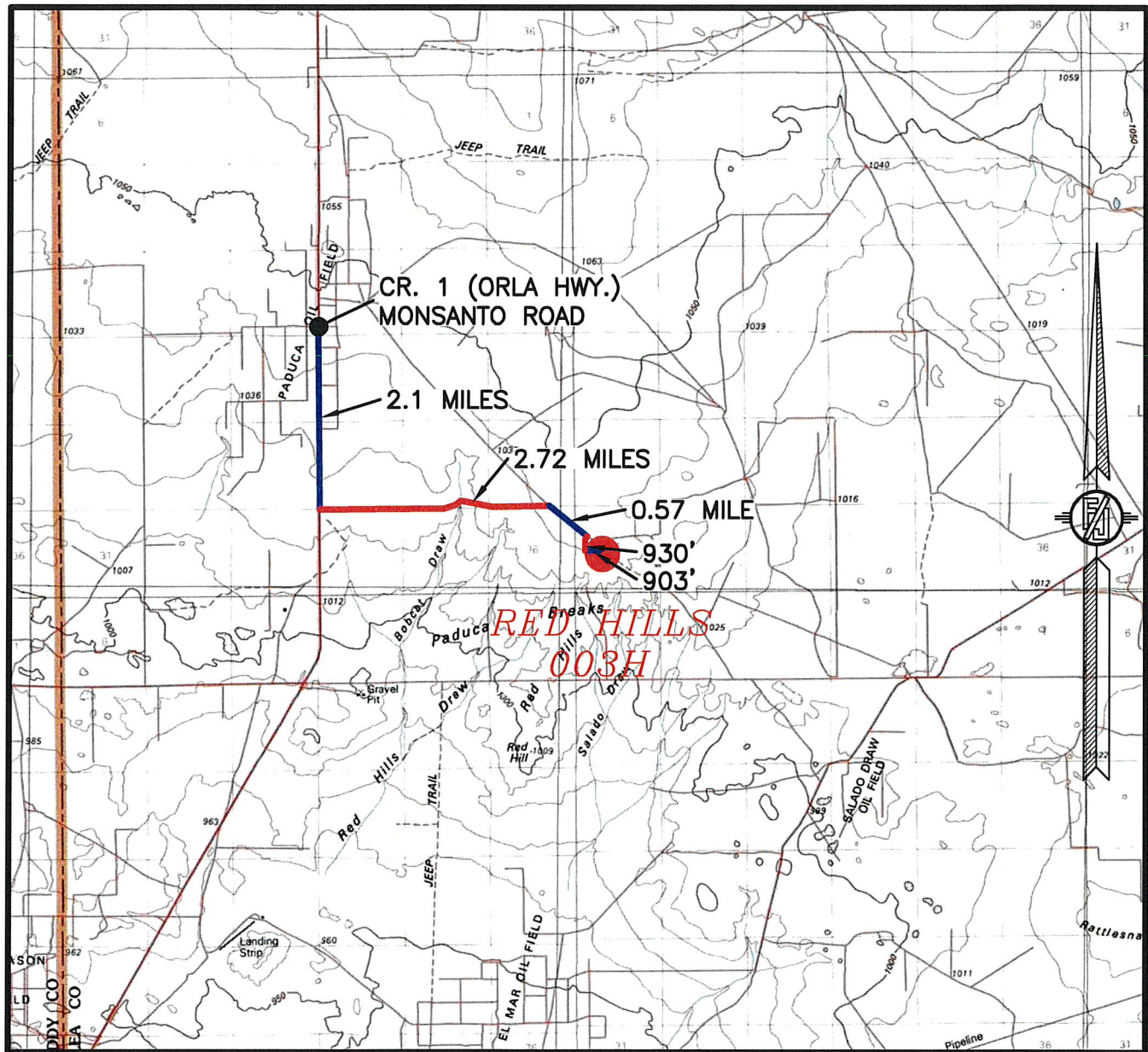
NOT TO SCALE

KAISER-FRANCIS OIL COMPANY
RED HILLS 003H
LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 18, 2019

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 6100C

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 CR. 1 (ORLA HWY.) AND MONSANTO ROAD, GO SOUTH ON CR. 1 2.1 MILES TO A CALICHE ROAD ON LEFT (EAST), TURN LEFT AND GO EAST ON CALICHE ROAD 2.72 MILES TO A "Y" INTERSECTION, BEAR RIGHT (SOUTHEAST) AND GO SOUTHEAST 0.57 MILE TO A ROAD SURVEY ON RIGHT (SOUTH), FOLLOW ROAD SURVEY SOUTH 930' THEN EAST 903' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

**KAISER-FRANCIS OIL COMPANY
RED HILLS 003H**

LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 18, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 6100C
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
NOV. 2015

KAISER-FRANCIS OIL COMPANY
RED HILLS 003H
LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

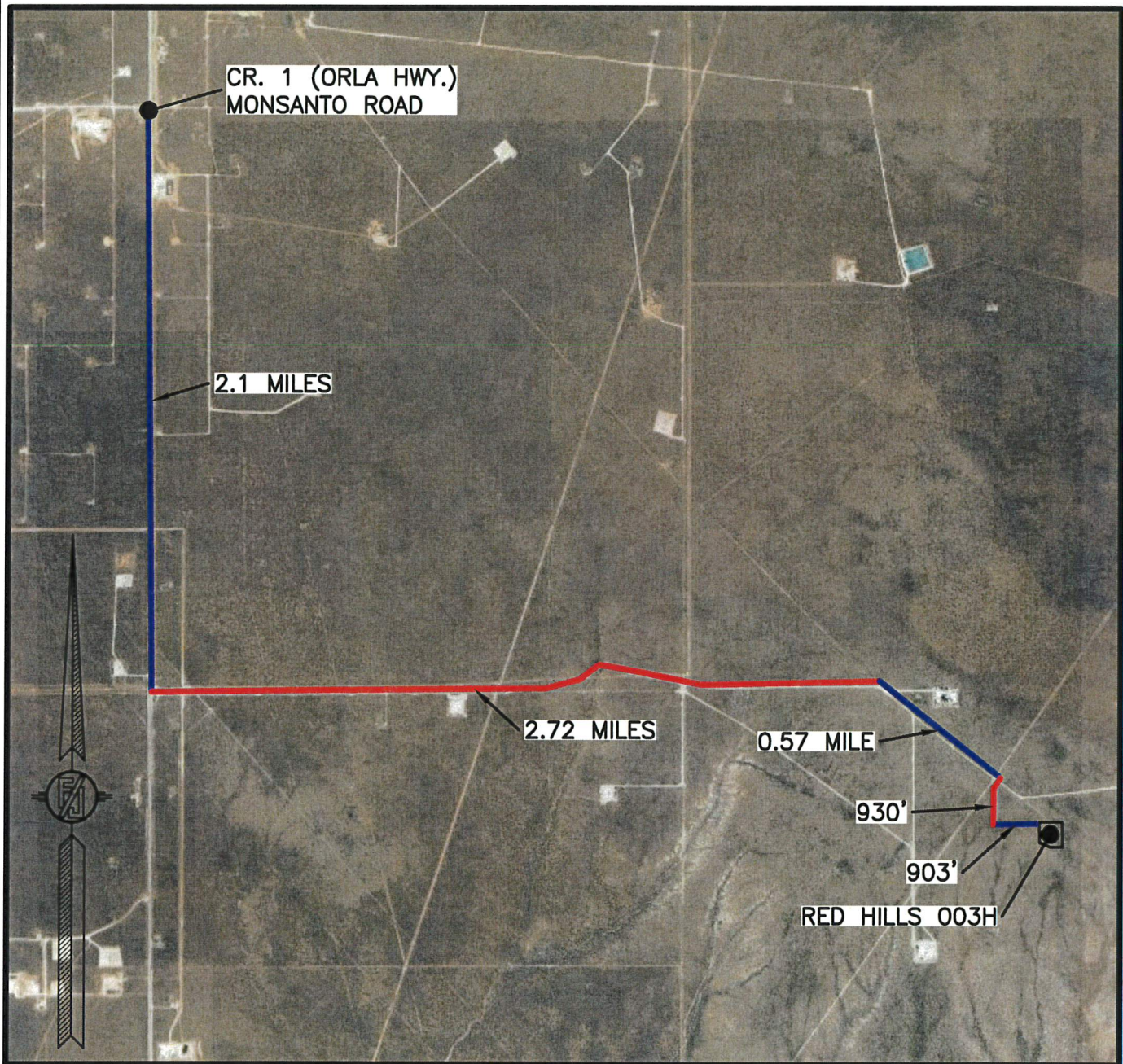
APRIL 18, 2019

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 6100C
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
NOV. 2015

**KAISER-FRANCIS OIL COMPANY
RED HILLS 003H**

LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

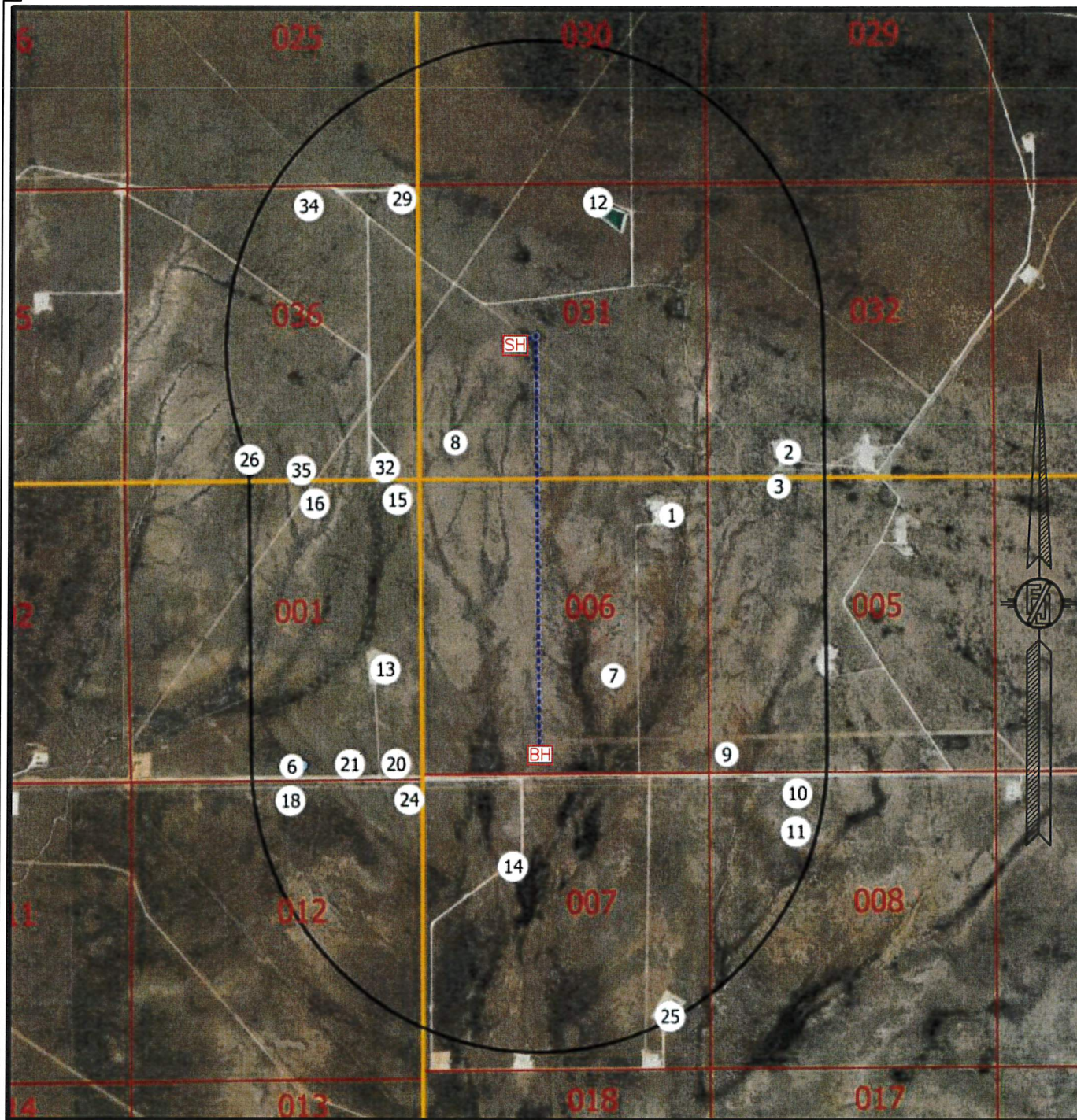
APRIL 18, 2019

SURVEY NO. 6100C

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

CARLSBAD, NEW MEXICO

1-MILE WELLS



WELL DATA FROM NMOCD GIS - 5/2/18

[SH] SURFACE LOCATION

[BH] BOTTOM OF HOLE

[XX] WELLS WITHIN 1 MILE

--- WELL PATH

— 1-MILE BOUNDARY

KAISER-FRANCIS OIL COMPANY
RED HILLS 103H

LOCATED 2400 FT. FROM THE SOUTH LINE
AND 1775 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 18, 2019

SURVEY NO. 6100C

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

CARLSBAD, NEW MEXICO



EARTHWORK QUANTITIES ARE ESTIMATED

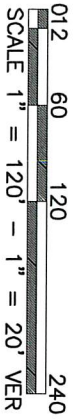
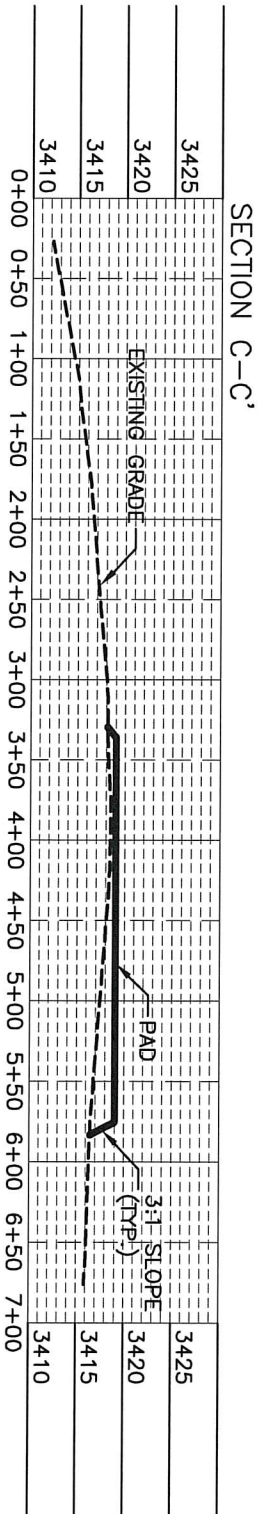
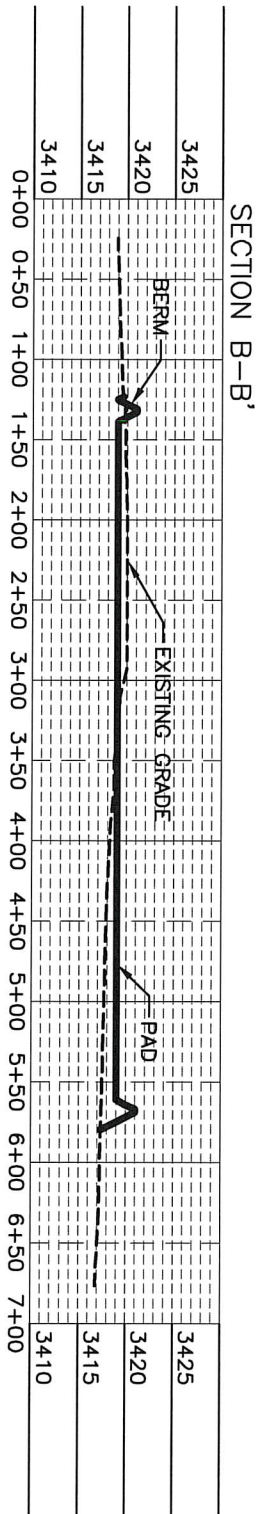
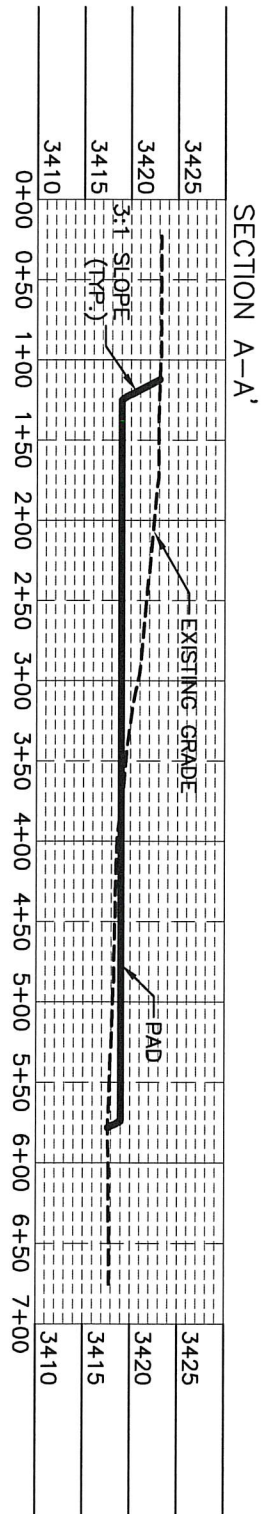
**KAISER-FRANCIS OIL COMPANY
PAD ELEVATIONS AND CROSS SECTIONS
FOR RED HILLS 003H**
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 18, 2019

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

**SHEET 1-
SURVEY NO. 6100C**

CROSS-SECTIONS



KAISER-FRANCIS OIL COMPANY
PAD ELEVATIONS AND CROSS SECTIONS
FOR RED HILLS 003H
SECTION 31, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

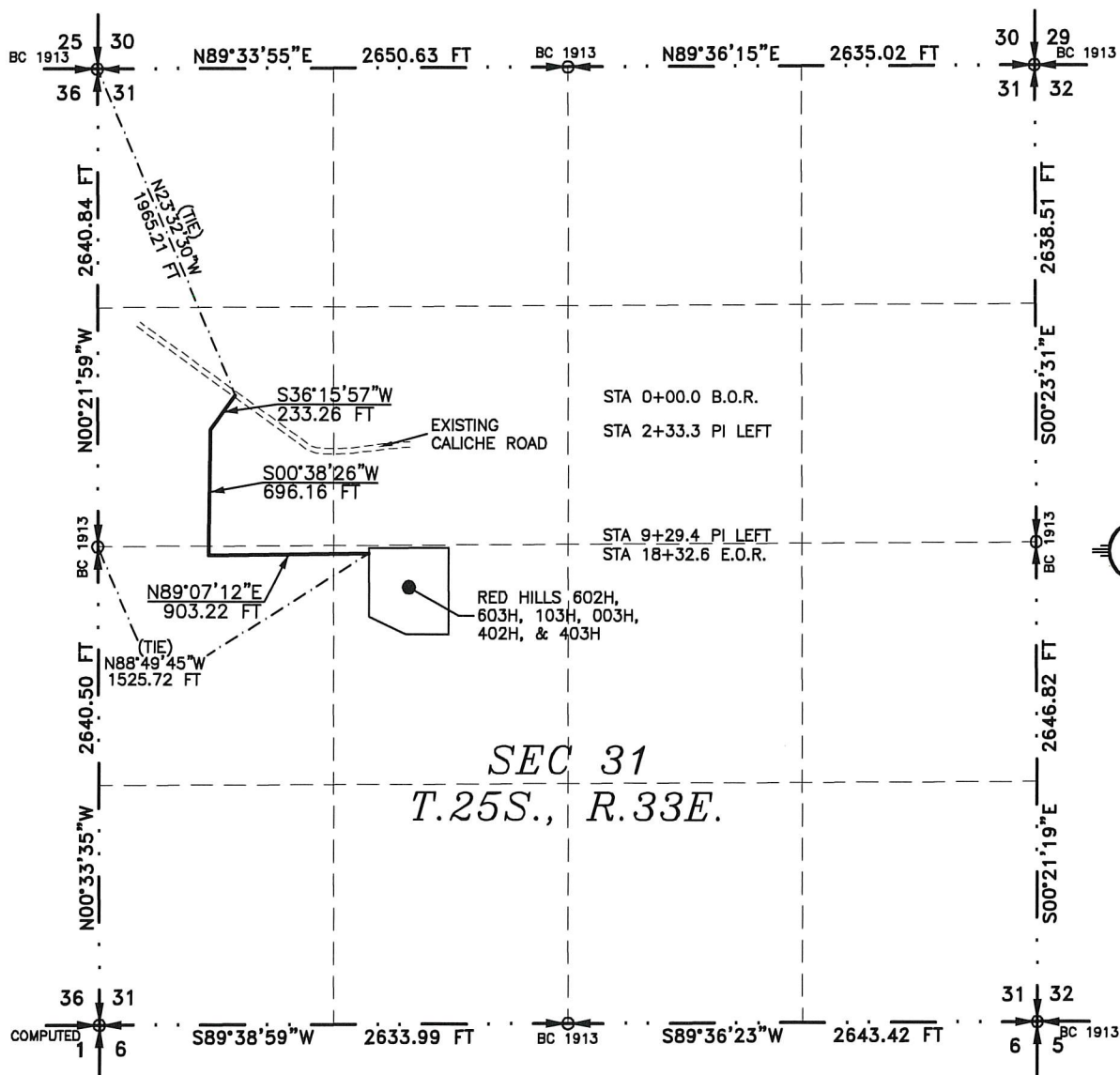
CUT	FILL	NET
3510 CU. YD	5557 CU. YD	2047 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

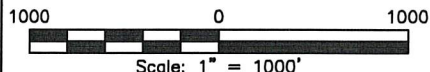
ACCESS ROAD PLAT

ACCESS ROAD FOR RED HILLS 602H, 603H, 103H, 003H, 402H, & 403H

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
APRIL 18, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 23 DAY OF APRIL 2019.

FILMON F. JARAMILLO, PLS. 12797

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

SURVEY NO. 6100C**CARLSBAD, NEW MEXICO**

ACCESS ROAD PLAT

ACCESS ROAD FOR RED HILLS 602H, 603H, 103H, 003H, 402H, & 403H

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
APRIL 18, 2019

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 SW/4 NW/4 OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N23°32'30"W, A DISTANCE OF 1965.21 FEET;
 THENCE S36°15'57"W A DISTANCE OF 233.26 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE S00°38'26"W A DISTANCE OF 696.16 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
 THENCE N89°07'12"E A DISTANCE OF 903.22 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 31, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N29°59'39"W, A DISTANCE OF 3085.13 FEET;

SAID STRIP OF LAND BEING 1832.64 FEET OR 111.07 RODS IN LENGTH, CONTAINING 1.262 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 NW/4	879.58 L.F.	53.31 RODS	0.606 ACRES
NW/4 SW/4	753.50 L.F.	45.67 RODS	0.519 ACRES
NE/4 SW/4	199.56 L.F.	12.09 RODS	0.137 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 27TH DAY OF APRIL 2019

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

SURVEY NO. 6100C**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

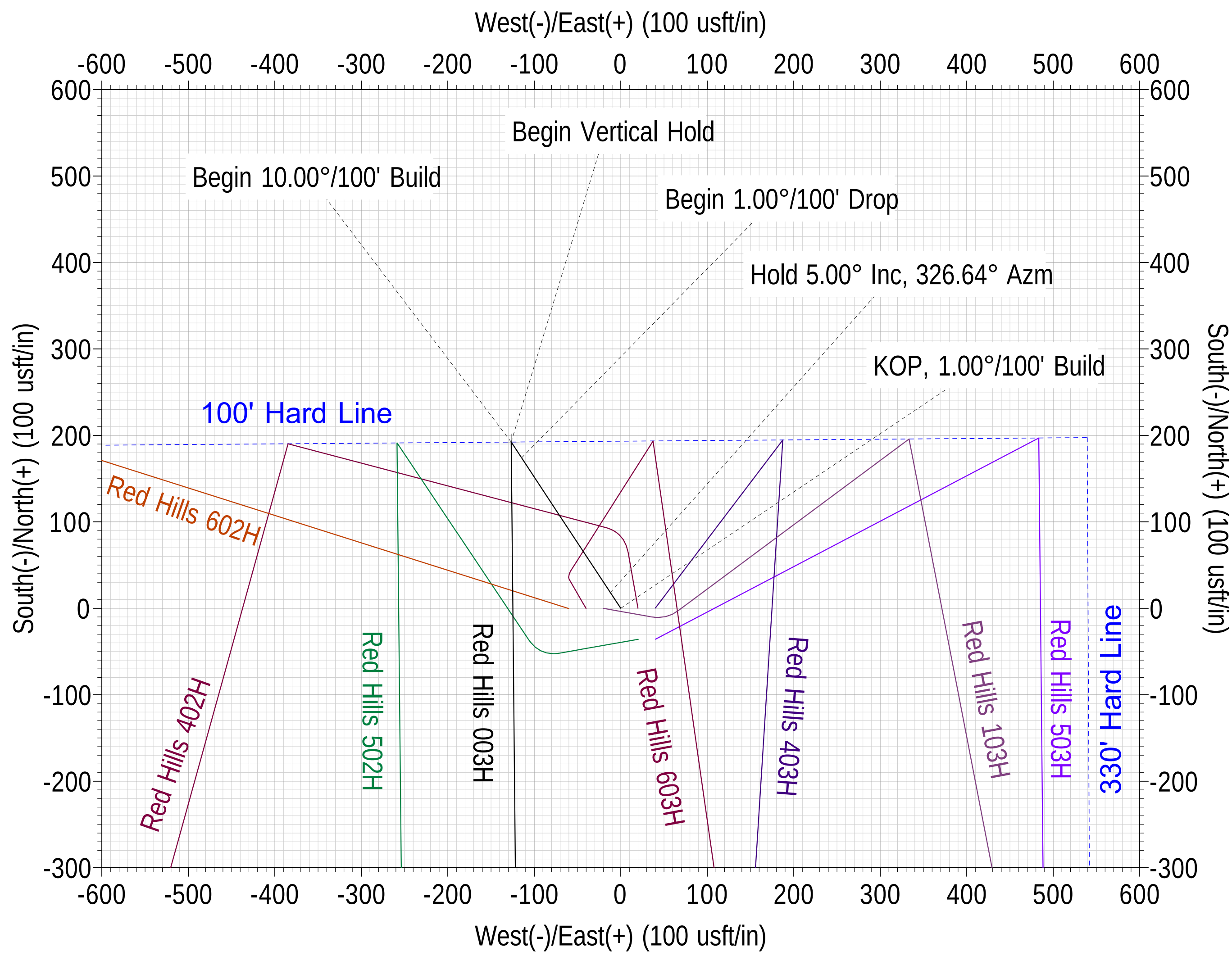
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

WELL DETAILS: Red Hills 003H

		GL @ 3418.60		WELL @ 3441.60usft (Cactus 171)				
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
	0.00	0.00	395851.13	722870.43	32° 5' 10.560 N	103° 36' 49.384 W		
DESIGN TARGET DETAILS								
Name		TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Red Hills 003H		8727.04	192.27	-126.57	396043.40	722743.86	32° 5' 12.471 N	103° 36' 50.841 W
PBHL - Red Hills 003H		9300.00	-7575.17	-50.66	388275.96	722819.77	32° 3' 55.601 N	103° 36' 50.560 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
1499.85	5.00	326.64	1499.22	18.20	-11.98	1.00	326.643	-18.12	Hold 5.00° Inc, 326.64° Azm
3641.60	5.00	326.64	3632.82	174.07	-114.59	0.00	0.000	-173.30	Begin 1.00°/100' Drop
4141.45	0.00	0.00	4132.04	192.27	-126.57	1.00	180.000	-191.42	Begin Vertical Hold
8736.45	0.00	0.00	8727.04	192.27	-126.57	0.00	0.000	-191.42	Begin 10.00°/100' Build
9636.45	90.00	179.44	9300.00	-380.66	-120.97	10.00	179.440	381.46	Begin 90.00° Lateral
16831.31	90.00	179.44	9300.00	-7575.17	-50.66	0.00	0.000	7575.34	PBHL



Kaiser-Francis Oil Company

Company: Kaiser-Francis

Well: Red Hills 003H

County: Lea County, New Mexico (NAD 27)

Rig: Cactus 171

Wellbore: Wellbore #1

Design: Design #1

Created By: DLD

Date: 12:59, May 23 2019

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.268°
To convert a Magnetic Direction to a True Direction, Add 6.650° East
To convert a True Direction to a Grid Direction, Subtract 0.382°

T

G

M

Azimuths to Grid North

True North: -0.38°

Magnetic North: 6.27°

Magnetic Field

Strength: 47746.0nT

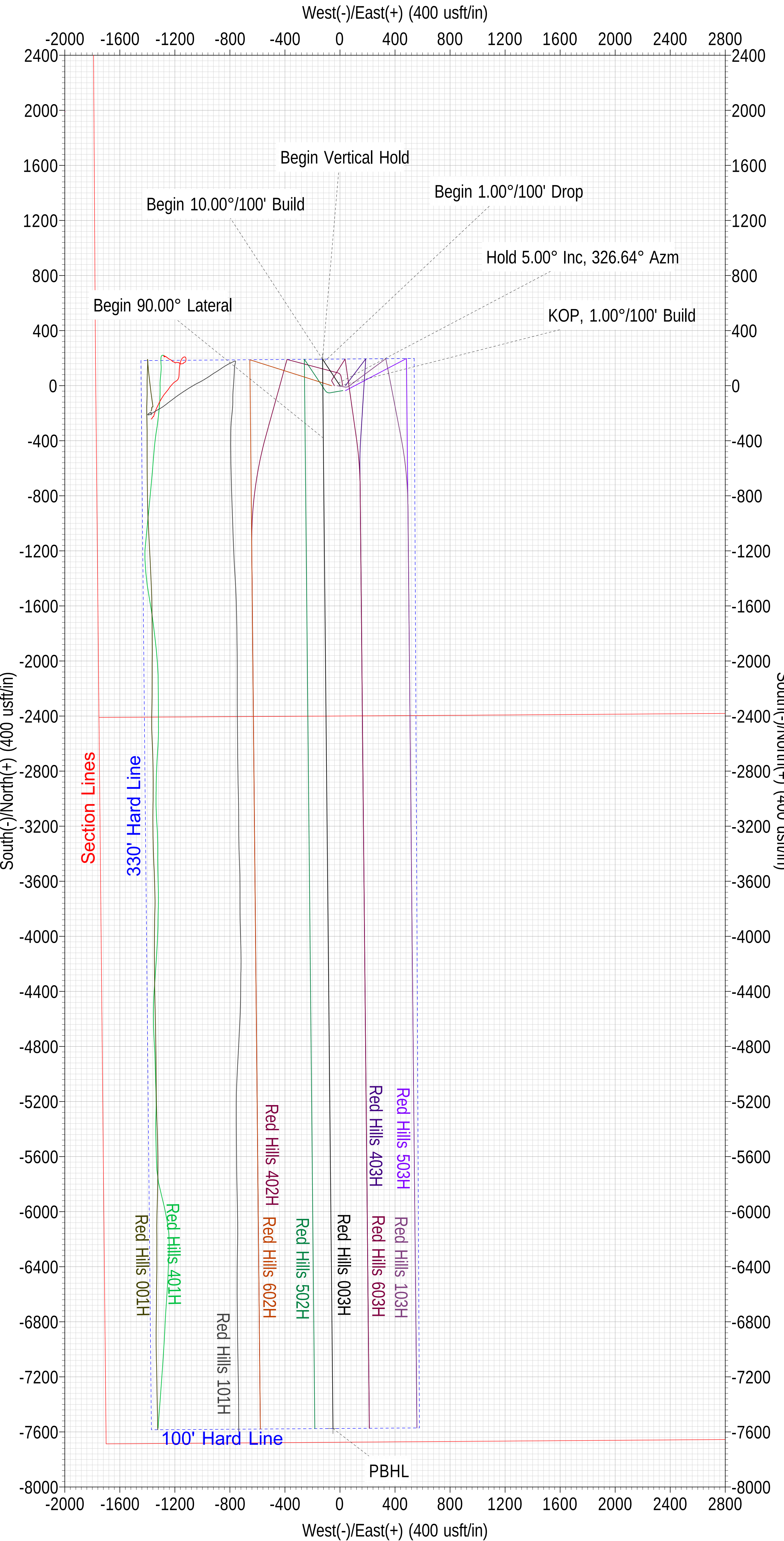
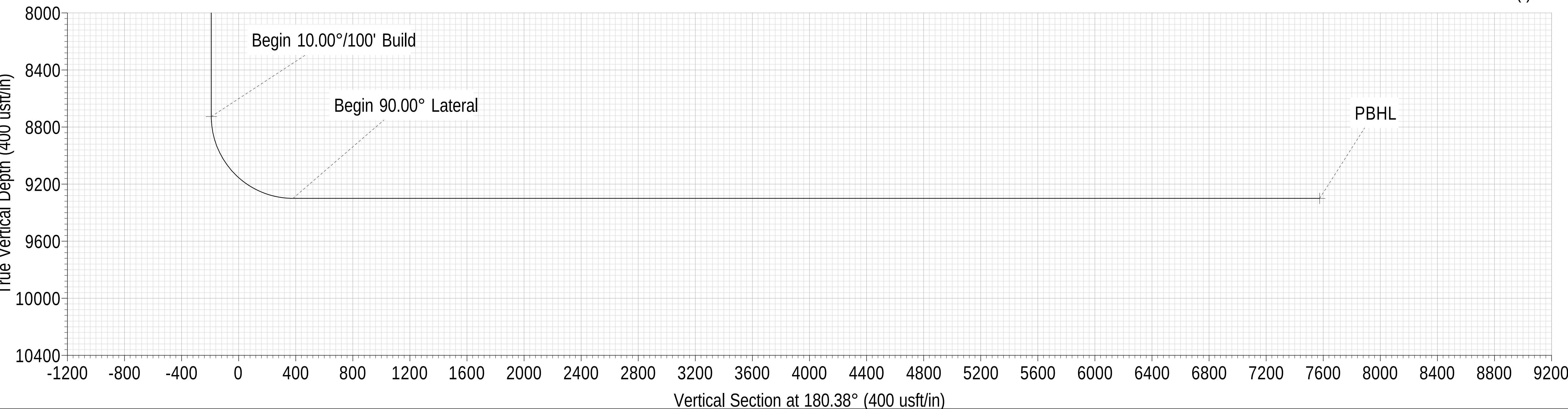
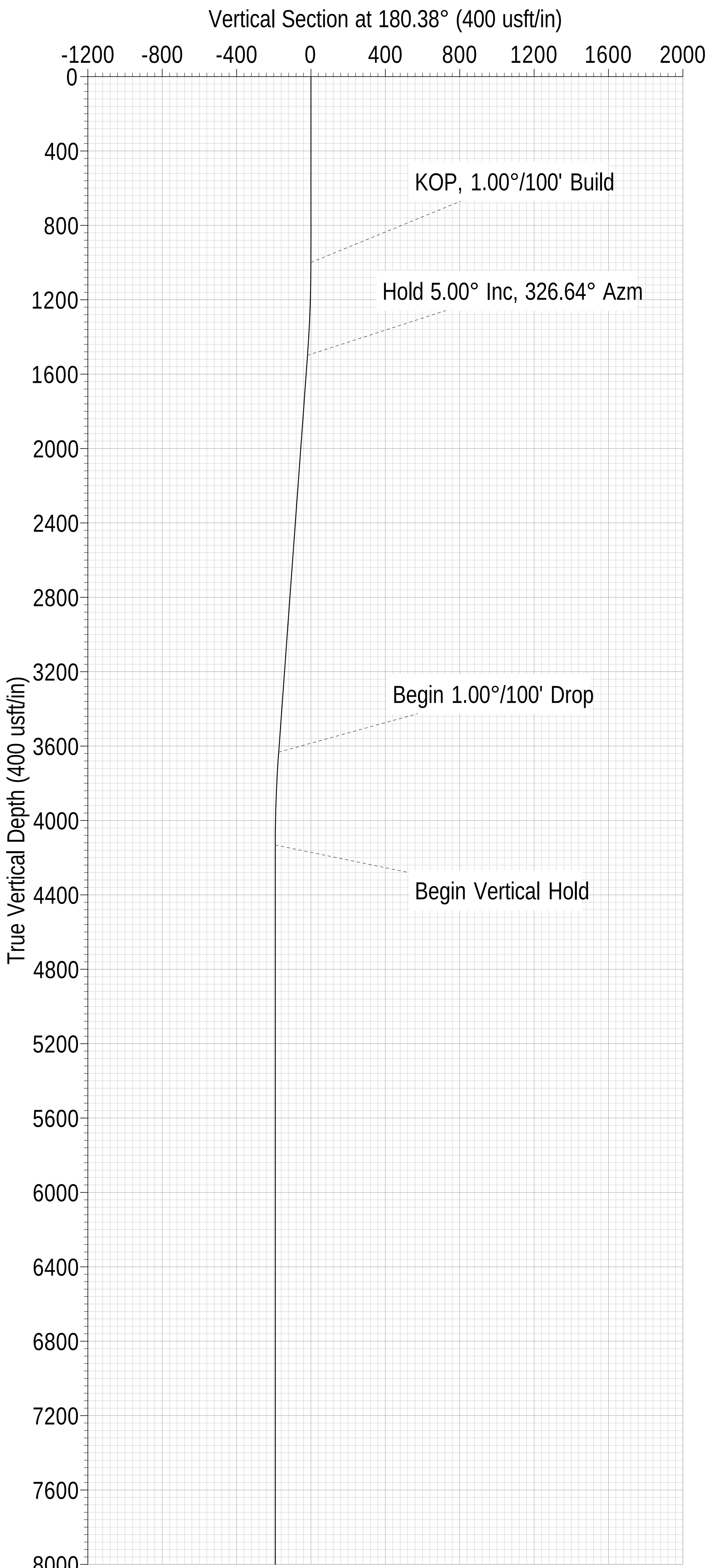
Dip Angle: 59.68°

Date: 6/12/2019

Model: HDGM2019

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	16831.31	Design #1 (Wellbore #1)	MWD+HRGM



Kaiser-Francis Oil Company

Kaiser-Francis

Lea County, New Mexico (NAD 27)

Red Hills 603H - 001H

Red Hills 003H

Wellbore #1

Plan: Design #1

Standard Planning Report

23 May, 2019



Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.14 Conroe Db	Local Co-ordinate Reference:	Well Red Hills 003H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3441.60usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3441.60usft (Cactus 171)
Site:	Red Hills 603H - 001H	North Reference:	Grid
Well:	Red Hills 003H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico (NAD 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	Red Hills 603H - 001H		
Site Position:		Northing:	395,815.29 usft
From:	Map	Easting:	722,890.66 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 10.204 N
		Longitude:	103° 36' 49.152 W

Well	Red Hills 003H		
Well Position	+N/-S	0.00 usft	Northing: 395,851.13 usft
	+E/-W	0.00 usft	Easting: 722,870.43 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.382 °	Ground Level:	3,418.60 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2019	6/12/2019	6.650	59.683	47,746.00

Design	Design #1				
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	180.38	

Plan Survey Tool Program	Date	5/23/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,831.31	Design #1 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

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	0.000		
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000		
1,499.85	5.00	326.64	1,499.22	18.20	-11.98	1.00	1.00	0.00	326.643		
3,641.60	5.00	326.64	3,632.82	174.07	-114.59	0.00	0.00	0.00	0.000		
4,141.45	0.00	0.00	4,132.04	192.27	-126.57	1.00	-1.00	0.00	180.000		
8,736.45	0.00	0.00	8,727.04	192.27	-126.57	0.00	0.00	0.00	0.000	VP - Red Hills 003H	
9,636.45	90.00	179.44	9,300.00	-380.66	-120.97	10.00	10.00	19.94	179.440		
16,831.31	90.00	179.44	9,300.00	-7,575.17	-50.66	0.00	0.00	0.00	0.000	PBHL - Red Hills 003H	

Kaiser-Francis Oil Company

MS Directional
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Site:	Red Hills 603H - 001H	North Reference:	Grid
Well:	Red Hills 003H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
KOP, 1.00°/100' Build									
1,100.00	1.00	326.64	1,099.99	0.73	-0.48	-0.73	1.00	1.00	0.00
1,200.00	2.00	326.64	1,199.96	2.92	-1.92	-2.90	1.00	1.00	0.00
1,300.00	3.00	326.64	1,299.86	6.56	-4.32	-6.53	1.00	1.00	0.00
1,400.00	4.00	326.64	1,399.68	11.66	-7.67	-11.61	1.00	1.00	0.00
1,499.85	5.00	326.64	1,499.22	18.20	-11.98	-18.12	1.00	1.00	0.00
Hold 5.00° Inc, 326.64° Azm									
1,500.00	5.00	326.64	1,499.37	18.21	-11.99	-18.13	0.02	0.02	0.00
1,600.00	5.00	326.64	1,598.99	25.49	-16.78	-25.38	0.00	0.00	0.00
1,700.00	5.00	326.64	1,698.61	32.77	-21.57	-32.62	0.00	0.00	0.00
1,800.00	5.00	326.64	1,798.22	40.04	-26.36	-39.87	0.00	0.00	0.00
1,900.00	5.00	326.64	1,897.84	47.32	-31.15	-47.11	0.00	0.00	0.00
2,000.00	5.00	326.64	1,997.46	54.60	-35.94	-54.36	0.00	0.00	0.00
2,100.00	5.00	326.64	2,097.08	61.88	-40.73	-61.60	0.00	0.00	0.00
2,200.00	5.00	326.64	2,196.70	69.15	-45.52	-68.85	0.00	0.00	0.00
2,300.00	5.00	326.64	2,296.32	76.43	-50.31	-76.09	0.00	0.00	0.00
2,400.00	5.00	326.64	2,395.94	83.71	-55.11	-83.34	0.00	0.00	0.00
2,500.00	5.00	326.64	2,495.56	90.99	-59.90	-90.59	0.00	0.00	0.00
2,600.00	5.00	326.64	2,595.18	98.27	-64.69	-97.83	0.00	0.00	0.00
2,700.00	5.00	326.64	2,694.80	105.54	-69.48	-105.08	0.00	0.00	0.00
2,800.00	5.00	326.64	2,794.42	112.82	-74.27	-112.32	0.00	0.00	0.00
2,900.00	5.00	326.64	2,894.04	120.10	-79.06	-119.57	0.00	0.00	0.00
3,000.00	5.00	326.64	2,993.66	127.38	-83.85	-126.81	0.00	0.00	0.00
3,100.00	5.00	326.64	3,093.28	134.65	-88.64	-134.06	0.00	0.00	0.00
3,200.00	5.00	326.64	3,192.90	141.93	-93.43	-141.30	0.00	0.00	0.00
3,300.00	5.00	326.64	3,292.52	149.21	-98.22	-148.55	0.00	0.00	0.00
3,400.00	5.00	326.64	3,392.14	156.49	-103.01	-155.79	0.00	0.00	0.00
3,500.00	5.00	326.64	3,491.76	163.76	-107.81	-163.04	0.00	0.00	0.00
3,600.00	5.00	326.64	3,591.38	171.04	-112.60	-170.29	0.00	0.00	0.00
3,641.60	5.00	326.64	3,632.82	174.07	-114.59	-173.30	0.00	0.00	0.00
Begin 1.00°/100' Drop									
3,700.00	4.41	326.64	3,691.02	178.07	-117.22	-177.28	1.00	-1.00	0.00
3,800.00	3.41	326.64	3,790.79	183.77	-120.98	-182.96	1.00	-1.00	0.00
3,900.00	2.41	326.64	3,890.66	188.02	-123.77	-187.19	1.00	-1.00	0.00
4,000.00	1.41	326.64	3,990.60	190.81	-125.61	-189.97	1.00	-1.00	0.00
4,100.00	0.41	326.64	4,090.59	192.14	-126.49	-191.29	1.00	-1.00	0.00
4,141.45	0.00	0.00	4,132.04	192.27	-126.57	-191.42	1.00	-1.00	0.00
Begin Vertical Hold									
4,200.00	0.00	0.00	4,190.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,300.00	0.00	0.00	4,290.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,400.00	0.00	0.00	4,390.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,500.00	0.00	0.00	4,490.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,600.00	0.00	0.00	4,590.59	192.27	-126.57	-191.42	0.00	0.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.14 Conroe Db	Local Co-ordinate Reference:	Well Red Hills 003H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3441.60usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3441.60usft (Cactus 171)
Site:	Red Hills 603H - 001H	North Reference:	Grid
Well:	Red Hills 003H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,700.00	0.00	0.00	4,690.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,800.00	0.00	0.00	4,790.59	192.27	-126.57	-191.42	0.00	0.00	0.00
4,900.00	0.00	0.00	4,890.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,000.00	0.00	0.00	4,990.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,100.00	0.00	0.00	5,090.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,200.00	0.00	0.00	5,190.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,300.00	0.00	0.00	5,290.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,400.00	0.00	0.00	5,390.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,500.00	0.00	0.00	5,490.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,600.00	0.00	0.00	5,590.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,700.00	0.00	0.00	5,690.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,800.00	0.00	0.00	5,790.59	192.27	-126.57	-191.42	0.00	0.00	0.00
5,900.00	0.00	0.00	5,890.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,000.00	0.00	0.00	5,990.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,100.00	0.00	0.00	6,090.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,200.00	0.00	0.00	6,190.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,300.00	0.00	0.00	6,290.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,400.00	0.00	0.00	6,390.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,500.00	0.00	0.00	6,490.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,600.00	0.00	0.00	6,590.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,700.00	0.00	0.00	6,690.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,800.00	0.00	0.00	6,790.59	192.27	-126.57	-191.42	0.00	0.00	0.00
6,900.00	0.00	0.00	6,890.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,000.00	0.00	0.00	6,990.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,100.00	0.00	0.00	7,090.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,200.00	0.00	0.00	7,190.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,300.00	0.00	0.00	7,290.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,400.00	0.00	0.00	7,390.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,500.00	0.00	0.00	7,490.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,600.00	0.00	0.00	7,590.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,700.00	0.00	0.00	7,690.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,800.00	0.00	0.00	7,790.59	192.27	-126.57	-191.42	0.00	0.00	0.00
7,900.00	0.00	0.00	7,890.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,000.00	0.00	0.00	7,990.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,100.00	0.00	0.00	8,090.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,200.00	0.00	0.00	8,190.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,300.00	0.00	0.00	8,290.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,400.00	0.00	0.00	8,390.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,500.00	0.00	0.00	8,490.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,600.00	0.00	0.00	8,590.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,700.00	0.00	0.00	8,690.59	192.27	-126.57	-191.42	0.00	0.00	0.00
8,736.46	0.00	0.00	8,727.04	192.27	-126.57	-191.42	0.00	0.00	0.00
Begin 10.00°/100' Build									
8,800.00	6.35	179.44	8,790.46	188.75	-126.54	-187.90	10.00	10.00	0.00
8,900.00	16.35	179.44	8,888.38	169.09	-126.34	-168.24	10.00	10.00	0.00
9,000.00	26.35	179.44	8,981.39	132.72	-125.99	-131.88	10.00	10.00	0.00
9,100.00	36.35	179.44	9,066.68	80.76	-125.48	-79.92	10.00	10.00	0.00
9,200.00	46.35	179.44	9,141.65	14.77	-124.84	-13.94	10.00	10.00	0.00
9,300.00	56.35	179.44	9,204.02	-63.23	-124.07	64.06	10.00	10.00	0.00
9,400.00	66.35	179.44	9,251.90	-150.87	-123.22	151.69	10.00	10.00	0.00
9,500.00	76.35	179.44	9,283.83	-245.50	-122.29	246.31	10.00	10.00	0.00
9,600.00	86.35	179.44	9,298.84	-344.23	-121.33	345.04	10.00	10.00	0.00
9,636.45	90.00	179.44	9,300.00	-380.66	-120.97	381.46	10.00	10.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.14 Conroe Db	Local Co-ordinate Reference:	Well Red Hills 003H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3441.60usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3441.60usft (Cactus 171)
Site:	Red Hills 603H - 001H	North Reference:	Grid
Well:	Red Hills 003H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
Begin 90.00° Lateral									
9,700.00	90.00	179.44	9,300.00	-444.20	-120.35	445.00	0.00	0.00	0.00
9,800.00	90.00	179.44	9,300.00	-544.20	-119.37	544.99	0.00	0.00	0.00
9,900.00	90.00	179.44	9,300.00	-644.20	-118.40	644.97	0.00	0.00	0.00
10,000.00	90.00	179.44	9,300.00	-744.19	-117.42	744.96	0.00	0.00	0.00
10,100.00	90.00	179.44	9,300.00	-844.19	-116.44	844.95	0.00	0.00	0.00
10,200.00	90.00	179.44	9,300.00	-944.18	-115.46	944.93	0.00	0.00	0.00
10,300.00	90.00	179.44	9,300.00	-1,044.18	-114.49	1,044.92	0.00	0.00	0.00
10,400.00	90.00	179.44	9,300.00	-1,144.17	-113.51	1,144.90	0.00	0.00	0.00
10,500.00	90.00	179.44	9,300.00	-1,244.17	-112.53	1,244.89	0.00	0.00	0.00
10,600.00	90.00	179.44	9,300.00	-1,344.16	-111.55	1,344.88	0.00	0.00	0.00
10,700.00	90.00	179.44	9,300.00	-1,444.16	-110.58	1,444.86	0.00	0.00	0.00
10,800.00	90.00	179.44	9,300.00	-1,544.15	-109.60	1,544.85	0.00	0.00	0.00
10,900.00	90.00	179.44	9,300.00	-1,644.15	-108.62	1,644.84	0.00	0.00	0.00
11,000.00	90.00	179.44	9,300.00	-1,744.14	-107.65	1,744.82	0.00	0.00	0.00
11,100.00	90.00	179.44	9,300.00	-1,844.14	-106.67	1,844.81	0.00	0.00	0.00
11,200.00	90.00	179.44	9,300.00	-1,944.13	-105.69	1,944.80	0.00	0.00	0.00
11,300.00	90.00	179.44	9,300.00	-2,044.13	-104.71	2,044.78	0.00	0.00	0.00
11,400.00	90.00	179.44	9,300.00	-2,144.12	-103.74	2,144.77	0.00	0.00	0.00
11,500.00	90.00	179.44	9,300.00	-2,244.12	-102.76	2,244.76	0.00	0.00	0.00
11,600.00	90.00	179.44	9,300.00	-2,344.11	-101.78	2,344.74	0.00	0.00	0.00
11,700.00	90.00	179.44	9,300.00	-2,444.11	-100.81	2,444.73	0.00	0.00	0.00
11,800.00	90.00	179.44	9,300.00	-2,544.10	-99.83	2,544.72	0.00	0.00	0.00
11,900.00	90.00	179.44	9,300.00	-2,644.10	-98.85	2,644.70	0.00	0.00	0.00
12,000.00	90.00	179.44	9,300.00	-2,744.09	-97.87	2,744.69	0.00	0.00	0.00
12,100.00	90.00	179.44	9,300.00	-2,844.09	-96.90	2,844.67	0.00	0.00	0.00
12,200.00	90.00	179.44	9,300.00	-2,944.09	-95.92	2,944.66	0.00	0.00	0.00
12,300.00	90.00	179.44	9,300.00	-3,044.08	-94.94	3,044.65	0.00	0.00	0.00
12,400.00	90.00	179.44	9,300.00	-3,144.08	-93.96	3,144.63	0.00	0.00	0.00
12,500.00	90.00	179.44	9,300.00	-3,244.07	-92.99	3,244.62	0.00	0.00	0.00
12,600.00	90.00	179.44	9,300.00	-3,344.07	-92.01	3,344.61	0.00	0.00	0.00
12,700.00	90.00	179.44	9,300.00	-3,444.06	-91.03	3,444.59	0.00	0.00	0.00
12,800.00	90.00	179.44	9,300.00	-3,544.06	-90.06	3,544.58	0.00	0.00	0.00
12,900.00	90.00	179.44	9,300.00	-3,644.05	-89.08	3,644.57	0.00	0.00	0.00
13,000.00	90.00	179.44	9,300.00	-3,744.05	-88.10	3,744.55	0.00	0.00	0.00
13,100.00	90.00	179.44	9,300.00	-3,844.04	-87.12	3,844.54	0.00	0.00	0.00
13,200.00	90.00	179.44	9,300.00	-3,944.04	-86.15	3,944.53	0.00	0.00	0.00
13,300.00	90.00	179.44	9,300.00	-4,044.03	-85.17	4,044.51	0.00	0.00	0.00
13,400.00	90.00	179.44	9,300.00	-4,144.03	-84.19	4,144.50	0.00	0.00	0.00
13,500.00	90.00	179.44	9,300.00	-4,244.02	-83.22	4,244.48	0.00	0.00	0.00
13,600.00	90.00	179.44	9,300.00	-4,344.02	-82.24	4,344.47	0.00	0.00	0.00
13,700.00	90.00	179.44	9,300.00	-4,444.01	-81.26	4,444.46	0.00	0.00	0.00
13,800.00	90.00	179.44	9,300.00	-4,544.01	-80.28	4,544.44	0.00	0.00	0.00
13,900.00	90.00	179.44	9,300.00	-4,644.00	-79.31	4,644.43	0.00	0.00	0.00
14,000.00	90.00	179.44	9,300.00	-4,744.00	-78.33	4,744.42	0.00	0.00	0.00
14,100.00	90.00	179.44	9,300.00	-4,843.99	-77.35	4,844.40	0.00	0.00	0.00
14,200.00	90.00	179.44	9,300.00	-4,943.99	-76.37	4,944.39	0.00	0.00	0.00
14,300.00	90.00	179.44	9,300.00	-5,043.99	-75.40	5,044.38	0.00	0.00	0.00
14,400.00	90.00	179.44	9,300.00	-5,143.98	-74.42	5,144.36	0.00	0.00	0.00
14,500.00	90.00	179.44	9,300.00	-5,243.98	-73.44	5,244.35	0.00	0.00	0.00
14,600.00	90.00	179.44	9,300.00	-5,343.97	-72.47	5,344.34	0.00	0.00	0.00
14,700.00	90.00	179.44	9,300.00	-5,443.97	-71.49	5,444.32	0.00	0.00	0.00
14,800.00	90.00	179.44	9,300.00	-5,543.96	-70.51	5,544.31	0.00	0.00	0.00
14,900.00	90.00	179.44	9,300.00	-5,643.96	-69.53	5,644.30	0.00	0.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.14 Conroe Db	Local Co-ordinate Reference:	Well Red Hills 003H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3441.60usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3441.60usft (Cactus 171)
Site:	Red Hills 603H - 001H	North Reference:	Grid
Well:	Red Hills 003H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
15,000.00	90.00	179.44	9,300.00	-5,743.95	-68.56	5,744.28	0.00	0.00	0.00
15,100.00	90.00	179.44	9,300.00	-5,843.95	-67.58	5,844.27	0.00	0.00	0.00
15,200.00	90.00	179.44	9,300.00	-5,943.94	-66.60	5,944.25	0.00	0.00	0.00
15,300.00	90.00	179.44	9,300.00	-6,043.94	-65.63	6,044.24	0.00	0.00	0.00
15,400.00	90.00	179.44	9,300.00	-6,143.93	-64.65	6,144.23	0.00	0.00	0.00
15,500.00	90.00	179.44	9,300.00	-6,243.93	-63.67	6,244.21	0.00	0.00	0.00
15,600.00	90.00	179.44	9,300.00	-6,343.92	-62.69	6,344.20	0.00	0.00	0.00
15,700.00	90.00	179.44	9,300.00	-6,443.92	-61.72	6,444.19	0.00	0.00	0.00
15,800.00	90.00	179.44	9,300.00	-6,543.91	-60.74	6,544.17	0.00	0.00	0.00
15,900.00	90.00	179.44	9,300.00	-6,643.91	-59.76	6,644.16	0.00	0.00	0.00
16,000.00	90.00	179.44	9,300.00	-6,743.90	-58.78	6,744.15	0.00	0.00	0.00
16,100.00	90.00	179.44	9,300.00	-6,843.90	-57.81	6,844.13	0.00	0.00	0.00
16,200.00	90.00	179.44	9,300.00	-6,943.89	-56.83	6,944.12	0.00	0.00	0.00
16,300.00	90.00	179.44	9,300.00	-7,043.89	-55.85	7,044.11	0.00	0.00	0.00
16,400.00	90.00	179.44	9,300.00	-7,143.88	-54.88	7,144.09	0.00	0.00	0.00
16,500.00	90.00	179.44	9,300.00	-7,243.88	-53.90	7,244.08	0.00	0.00	0.00
16,600.00	90.00	179.44	9,300.00	-7,343.88	-52.92	7,344.06	0.00	0.00	0.00
16,700.00	90.00	179.44	9,300.00	-7,443.87	-51.94	7,444.05	0.00	0.00	0.00
16,800.00	90.00	179.44	9,300.00	-7,543.87	-50.97	7,544.04	0.00	0.00	0.00
16,831.31	90.00	179.44	9,300.00	-7,575.17	-50.66	7,575.34	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Red Hills 003H - hit/miss target - Shape - plan hits target center - Point	0.00	359.93	8,727.04	192.27	-126.57	396,043.40	722,743.86	32° 5' 12.471 N	103° 36' 50.841 W
PBHL - Red Hills 003H - hit/miss target - Shape - plan hits target center - Point	0.00	359.93	9,300.00	-7,575.17	-50.66	388,275.95	722,819.77	32° 3' 55.601 N	103° 36' 50.560 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP, 1.00°/100' Build	
1,499.85	1,499.22	18.20	-11.98	Hold 5.00° Inc, 326.64° Azm	
3,641.60	3,632.82	174.07	-114.59	Begin 1.00°/100' Drop	
4,141.45	4,132.04	192.27	-126.57	Begin Vertical Hold	
8,736.46	8,727.04	192.27	-126.57	Begin 10.00°/100' Build	
9,636.45	9,300.00	-380.66	-120.97	Begin 90.00° Lateral	
16,831.31	9,300.00	-7,575.17	-50.66	PBHL	

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 163084

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 163084
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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