

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. 30-025-46743
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>2,364</u> feet from the <u>South</u> line and <u>1,795</u> feet from the <u>West</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.) 3,418.3' GR		8. Well Number 105H
9. OGRID Number 12361		10. Pool name or Wildcat Upper Bone Spring

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
 TEMPORARILY ABANDON ☐
 PULL OR ALTER CASING ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐

PLUG AND ABANDON ☐
 CHANGE PLANS ☐
 MULTIPLE COMPL ☐

OTHER:

FIELD/ POOL CHANGE

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING/CEMENT JOB ☐

ALTERING CASING ☐

P AND A ☐

☒ OTHER:

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.

Kaiser-Francis Oil Company respectfully requests to change the field/pool for the Red Hills 105H.

Original field/pool: [98158] WC-025 G-09 S253236A; UPR WOLFCAMP

Requested field/pool: [97994] WC-025 G-06 S253329D; UPR BONE SPRIN

Spud Date:

3/6/21

Rig Release Date:

4/4/21

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 8/3/2022

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
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46743	² Pool Code 97994	³ Pool Name WC-025 G-06 S253329D; UPR BONE SPRIN
⁴ Property Code 5467	⁵ Property Name RED HILLS	⁶ Well Number 105H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3418.3

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
K	31	25 S	33 E		2364	SOUTH	1795	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	6	26 S	33 E		96	SOUTH	1697	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.

Map details: NW CORNER SEC. 31, N/4 CORNER SEC. 31, NE CORNER SEC. 31, W/4 CORNER SEC. 31, SECTION CORNER, NMSP EAST (FT), N, E, LAT., LONG., SEC. 31, RED HILLS 105H, KICK OFF POINT, FIRST TAKE POINT, LAST TAKE POINT, BOTTOM OF HOLE, SEC. 6, LATITUDE AND LONGITUDE VALUES ARE NAD 83, STATE PLANE VALUES ARE NMSP EAST GRID, S/4 CORNER SEC. 6, SW CORNER SEC. 6, NMSP EAST (FT), N, E, LAT., LONG., SURFACE LOCATION, AS-DRILLED, KOP, FTP, LTP, BOTTOM OF HOLE, SCALED.	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. Erica Miles 4/30/2021 Signature Date Erica Miles Printed Name EricaM@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. FEBRUARY 17, 2021 Date of Survey Signature and Seal of Professional Surveyor: [Signature] Certificate Number: 12797 SURVEYOR NO. 6207B
--	--

Intent ☐ As Drilled ☒

API # 30-025-46743		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 105H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	31	25S	33E		265	SOUTH	1818	EAST	LEA
Latitude 32.0805237					Longitude 103.6087270				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	6	26S	33E		109	NORTH	1728	EAST	LEA
Latitude 32.0794962					Longitude 103.6084378				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	6	26S	33E	4	271	SOUTH	1698	EAST	LEA
Latitude 32.0660427					Longitude 103.6083303				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



Kaiser-Francis Oil Company

Lea County, NM (NAD 83)

Sec 31-T25S-R33E

Red Hills 105H NAD 83

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 February, 2020

KAISER-FRANCIS OIL COMPANY



Microsoft Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 31-T25S-R33E			
Site Position:		Northing:	395,908.71 usft	Latitude:	32.086392
From:	Map	Easting:	764,056.94 usft	Longitude:	-103.614189
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	Red Hills 105H NAD 83					
Well Position	+N/-S	0.00 usft	Northing:	395,872.87 usft	Latitude:	32.086293
	+E/-W	0.00 usft	Easting:	764,077.16 usft	Longitude:	-103.614125
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,418.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/03/20	6.69	59.90	47,590.46116384

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	166.22	

Survey Program	Date	02/17/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
234.00	15,535.00	Survey #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
234.00	0.50	205.30	234.00	-0.92	-0.44	0.79	0.21	0.21	0.00	
1st MWD Survey										
327.00	1.30	205.90	326.98	-2.24	-1.07	1.92	0.86	0.86	0.65	
421.00	1.90	224.70	420.95	-4.31	-2.63	3.55	0.84	0.64	20.00	
515.00	2.60	223.50	514.88	-6.96	-5.20	5.52	0.75	0.74	-1.28	
609.00	2.20	231.40	608.79	-9.63	-8.07	7.43	0.55	-0.43	8.40	
702.00	1.30	239.20	701.75	-11.29	-10.38	8.49	1.00	-0.97	8.39	
796.00	1.00	261.30	795.73	-11.96	-12.10	8.73	0.56	-0.32	23.51	
879.00	1.30	279.60	878.71	-11.91	-13.75	8.29	0.57	0.36	22.05	
983.00	1.70	302.70	982.68	-10.88	-16.21	6.71	0.69	0.38	22.21	



Microsoft
Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,077.00	1.10	212.00	1,076.66	-10.89	-17.86	6.32	2.17	-0.64	-96.49
1,170.00	2.80	167.10	1,169.61	-13.86	-17.83	9.22	2.33	1.83	-48.28
1,264.00	5.10	148.60	1,263.38	-19.67	-15.14	15.50	2.77	2.45	-19.68
1,357.00	7.10	145.30	1,355.85	-27.92	-9.71	24.81	2.18	2.15	-3.55
1,450.00	9.20	140.00	1,447.91	-38.34	-1.66	36.85	2.40	2.26	-5.70
1,544.00	11.30	142.70	1,540.40	-51.43	8.75	52.03	2.29	2.23	2.87
1,639.00	12.70	142.60	1,633.32	-67.13	20.74	70.13	1.47	1.47	-0.11
1,733.00	14.20	137.50	1,724.75	-83.84	34.80	89.71	2.03	1.60	-5.43
1,827.00	15.90	137.00	1,815.52	-101.76	51.38	111.06	1.81	1.81	-0.53
1,922.00	17.50	138.00	1,906.51	-121.89	69.81	135.01	1.71	1.68	1.05
2,016.00	18.90	137.80	1,995.80	-143.67	89.49	160.85	1.49	1.49	-0.21
2,111.00	19.30	137.00	2,085.57	-166.55	110.54	188.09	0.50	0.42	-0.84
2,205.00	19.40	138.10	2,174.26	-189.53	131.56	215.41	0.40	0.11	1.17
2,300.00	19.70	137.80	2,263.79	-213.14	152.85	243.41	0.33	0.32	-0.32
2,394.00	19.30	137.80	2,352.40	-236.38	173.93	271.01	0.43	-0.43	0.00
2,488.00	18.80	137.70	2,441.25	-259.09	194.56	297.98	0.53	-0.53	-0.11
2,583.00	18.70	137.20	2,531.21	-281.59	215.20	324.74	0.20	-0.11	-0.53
2,677.00	18.70	137.70	2,620.24	-303.79	235.58	351.16	0.17	0.00	0.53
2,771.00	18.90	138.80	2,709.23	-326.39	255.75	377.91	0.43	0.21	1.17
2,866.00	19.30	139.00	2,799.00	-349.82	276.19	405.53	0.43	0.42	0.21
2,960.00	19.50	139.30	2,887.66	-373.44	296.61	433.33	0.24	0.21	0.32
3,055.00	18.70	138.50	2,977.43	-396.86	317.04	460.95	0.89	-0.84	-0.84
3,149.00	18.80	140.10	3,066.44	-419.77	336.74	487.89	0.56	0.11	1.70
3,243.00	18.60	139.00	3,155.48	-442.70	356.29	514.82	0.43	-0.21	-1.17
3,338.00	18.30	139.50	3,245.60	-465.48	375.92	541.62	0.36	-0.32	0.53
3,433.00	17.70	138.70	3,335.95	-487.67	395.14	567.75	0.68	-0.63	-0.84
3,528.00	19.20	139.70	3,426.06	-510.43	414.77	594.53	1.61	1.58	1.05
3,622.00	19.30	138.80	3,514.81	-533.91	435.00	622.15	0.33	0.11	-0.96
3,717.00	19.00	137.70	3,604.55	-557.16	455.75	649.67	0.49	-0.32	-1.16
3,811.00	18.80	136.80	3,693.48	-579.52	476.42	676.31	0.38	-0.21	-0.96
3,906.00	18.90	138.10	3,783.39	-602.13	497.17	703.22	0.45	0.11	1.37
4,000.00	18.80	144.70	3,872.36	-625.83	516.09	730.74	2.27	-0.11	7.02
4,094.00	18.50	144.20	3,961.42	-650.28	533.57	758.65	0.36	-0.32	-0.53
4,188.00	17.80	143.20	4,050.74	-673.88	550.90	785.70	0.82	-0.74	-1.06
4,283.00	18.70	142.10	4,140.96	-697.53	568.96	812.97	1.01	0.95	-1.16
4,378.00	19.30	142.90	4,230.79	-722.07	587.78	841.28	0.69	0.63	0.84
4,473.00	19.00	141.70	4,320.53	-746.73	606.83	869.77	0.52	-0.32	-1.26
4,567.00	18.90	141.30	4,409.44	-770.62	625.84	897.50	0.17	-0.11	-0.43
4,662.00	19.50	142.40	4,499.15	-795.19	645.13	925.96	0.74	0.63	1.16
4,757.00	19.60	142.20	4,588.68	-820.34	664.57	955.01	0.13	0.11	-0.21
4,851.00	19.20	142.00	4,677.34	-844.98	683.75	983.51	0.43	-0.43	-0.21
4,920.00	18.50	142.60	4,742.64	-862.61	697.39	1,003.89	1.05	-1.01	0.87
5,043.00	18.40	144.60	4,859.32	-893.94	720.48	1,039.81	0.52	-0.08	1.63



Microsoft Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,138.00	19.90	143.10	4,949.06	-919.09	738.88	1,068.62	1.66	1.58	-1.58	
5,232.00	21.60	142.60	5,036.96	-945.63	758.99	1,099.19	1.82	1.81	-0.53	
5,327.00	21.00	140.00	5,125.47	-972.56	780.56	1,130.48	1.18	-0.63	-2.74	
5,421.00	19.80	138.00	5,213.57	-997.30	802.04	1,159.62	1.48	-1.28	-2.13	
5,515.00	19.80	138.00	5,302.02	-1,020.96	823.34	1,187.68	0.00	0.00	0.00	
5,610.00	18.60	140.20	5,391.73	-1,044.56	843.81	1,215.47	1.47	-1.26	2.32	
5,704.00	17.70	141.70	5,481.05	-1,067.29	862.26	1,241.95	1.08	-0.96	1.60	
5,799.00	18.20	140.70	5,571.43	-1,090.11	880.61	1,268.47	0.62	0.53	-1.05	
5,893.00	18.50	140.80	5,660.65	-1,113.02	899.33	1,295.19	0.32	0.32	0.11	
5,987.00	18.90	140.30	5,749.69	-1,136.29	918.48	1,322.35	0.46	0.43	-0.53	
6,082.00	18.70	139.90	5,839.62	-1,159.78	938.12	1,349.84	0.25	-0.21	-0.42	
6,177.00	18.20	139.80	5,929.74	-1,182.76	957.51	1,376.78	0.53	-0.53	-0.11	
6,270.00	18.50	139.70	6,018.01	-1,205.11	976.42	1,402.99	0.32	0.32	-0.11	
6,365.00	18.70	138.90	6,108.05	-1,228.08	996.18	1,430.00	0.34	0.21	-0.84	
6,459.00	19.00	138.80	6,197.00	-1,250.95	1,016.17	1,456.97	0.32	0.32	-0.11	
6,554.00	19.50	138.60	6,286.69	-1,274.48	1,036.84	1,484.75	0.53	0.53	-0.21	
6,649.00	18.70	141.30	6,376.46	-1,298.26	1,056.85	1,512.61	1.25	-0.84	2.84	
6,742.00	19.10	143.10	6,464.45	-1,322.06	1,075.31	1,540.12	0.76	0.43	1.94	
6,836.00	19.60	142.40	6,553.14	-1,346.85	1,094.16	1,568.69	0.59	0.53	-0.74	
6,930.00	17.80	143.60	6,642.17	-1,370.91	1,112.31	1,596.38	1.96	-1.91	1.28	
7,024.00	17.40	141.50	6,731.77	-1,393.47	1,129.58	1,622.41	0.80	-0.43	-2.23	
7,119.00	17.50	143.40	6,822.40	-1,416.06	1,146.94	1,648.48	0.61	0.11	2.00	
7,214.00	17.00	144.40	6,913.13	-1,438.82	1,163.54	1,674.53	0.61	-0.53	1.05	
7,308.00	17.00	144.80	7,003.02	-1,461.22	1,179.46	1,700.08	0.12	0.00	0.43	
7,403.00	17.80	140.90	7,093.68	-1,483.84	1,196.63	1,726.14	1.49	0.84	-4.11	
7,498.00	18.10	140.20	7,184.05	-1,506.44	1,215.23	1,752.53	0.39	0.32	-0.74	
7,593.00	18.50	140.70	7,274.25	-1,529.44	1,234.22	1,779.39	0.45	0.42	0.53	
7,688.00	18.40	140.60	7,364.37	-1,552.69	1,253.29	1,806.51	0.11	-0.11	-0.11	
7,783.00	18.50	141.10	7,454.48	-1,576.01	1,272.27	1,833.67	0.20	0.11	0.53	
7,877.00	17.70	142.30	7,543.83	-1,598.92	1,290.37	1,860.24	0.94	-0.85	1.28	
7,972.00	18.60	142.80	7,634.10	-1,622.42	1,308.36	1,887.34	0.96	0.95	0.53	
8,067.00	18.80	143.30	7,724.09	-1,646.76	1,326.67	1,915.34	0.27	0.21	0.53	
8,161.00	18.20	143.70	7,813.23	-1,670.73	1,344.41	1,942.85	0.65	-0.64	0.43	
8,256.00	18.80	141.20	7,903.32	-1,694.62	1,362.79	1,970.43	1.05	0.63	-2.63	
8,350.00	19.50	140.30	7,992.12	-1,718.50	1,382.30	1,998.27	0.81	0.74	-0.96	
8,444.00	19.30	140.50	8,080.78	-1,742.55	1,402.21	2,026.37	0.22	-0.21	0.21	
8,539.00	19.30	140.60	8,170.44	-1,766.80	1,422.16	2,054.67	0.03	0.00	0.11	
8,634.00	19.40	140.80	8,260.08	-1,791.16	1,442.09	2,083.08	0.13	0.11	0.21	
8,729.00	18.90	141.40	8,349.82	-1,815.41	1,461.66	2,111.29	0.57	-0.53	0.63	
8,823.00	18.60	141.20	8,438.83	-1,838.99	1,480.56	2,138.69	0.33	-0.32	-0.21	
8,918.00	18.60	142.10	8,528.87	-1,862.75	1,499.36	2,166.25	0.30	0.00	0.95	
9,013.00	17.80	143.10	8,619.12	-1,886.32	1,517.38	2,193.43	0.90	-0.84	1.05	
9,108.00	18.30	140.40	8,709.44	-1,909.42	1,535.61	2,220.21	1.03	0.53	-2.84	



Microsoft Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,202.00	17.90	139.50	8,798.79	-1,931.78	1,554.40	2,246.40	0.52	-0.43	-0.96	
9,297.00	19.20	140.80	8,888.85	-1,954.99	1,573.75	2,273.55	1.44	1.37	1.37	
9,392.00	18.80	140.10	8,978.68	-1,978.84	1,593.44	2,301.40	0.48	-0.42	-0.74	
9,486.00	17.60	140.90	9,067.97	-2,001.49	1,612.12	2,327.85	1.30	-1.28	0.85	
9,580.00	17.20	140.90	9,157.67	-2,023.30	1,629.85	2,353.26	0.43	-0.43	0.00	
9,675.00	16.70	140.60	9,248.55	-2,044.75	1,647.37	2,378.26	0.53	-0.53	-0.32	
9,770.00	18.10	137.50	9,339.20	-2,066.18	1,666.01	2,403.51	1.77	1.47	-3.26	
9,833.00	18.10	136.80	9,399.08	-2,080.53	1,679.32	2,420.62	0.35	0.00	-1.11	
9,864.00	19.50	138.00	9,428.43	-2,087.88	1,686.08	2,429.38	4.69	4.52	3.87	
9,909.00	22.10	141.30	9,470.49	-2,100.07	1,696.40	2,443.67	6.34	5.78	7.33	
9,956.00	27.40	149.90	9,513.17	-2,116.35	1,707.36	2,462.09	13.61	11.28	18.30	
10,003.00	32.50	158.10	9,553.90	-2,137.44	1,717.51	2,484.99	13.89	10.85	17.45	
10,051.00	36.10	163.90	9,593.56	-2,163.01	1,726.24	2,511.90	10.12	7.50	12.08	
10,098.00	39.40	168.10	9,630.72	-2,190.92	1,733.16	2,540.66	8.90	7.02	8.94	
10,146.00	42.90	171.20	9,666.86	-2,221.98	1,738.80	2,572.17	8.44	7.29	6.46	
10,193.00	47.20	171.60	9,700.06	-2,254.86	1,743.77	2,605.29	9.17	9.15	0.85	
10,241.00	50.90	170.70	9,731.51	-2,290.68	1,749.36	2,641.41	7.84	7.71	-1.87	
10,288.00	53.40	169.80	9,760.35	-2,327.25	1,755.65	2,678.42	5.53	5.32	-1.91	
10,336.00	55.30	169.20	9,788.33	-2,365.60	1,762.76	2,717.36	4.09	3.96	-1.25	
10,383.00	58.00	170.10	9,814.16	-2,404.22	1,769.80	2,756.55	5.96	5.74	1.91	
10,430.00	61.60	172.10	9,837.80	-2,444.34	1,776.07	2,797.01	8.50	7.66	4.26	
10,439.00	62.33	172.49	9,842.03	-2,452.21	1,777.14	2,804.91	8.94	8.06	4.37	
Cross 100' FNL Sec 6 10439 MD/9842.03 TVD -2452.21 S 1777.14 E N: 393420.6 E: 765854.3										
10,477.00	65.40	174.10	9,858.77	-2,486.09	1,781.11	2,838.76	8.94	8.09	4.23	
10,524.00	70.70	174.70	9,876.33	-2,529.46	1,785.36	2,881.89	11.34	11.28	1.28	
10,571.00	75.20	174.50	9,890.11	-2,574.18	1,789.59	2,926.33	9.58	9.57	-0.43	
10,618.00	78.50	175.20	9,900.80	-2,619.76	1,793.70	2,971.58	7.17	7.02	1.49	
10,665.00	80.90	175.40	9,909.21	-2,665.84	1,797.48	3,017.24	5.12	5.11	0.43	
10,712.00	83.90	176.10	9,915.42	-2,712.30	1,800.94	3,063.17	6.55	6.38	1.49	
10,740.00	85.50	177.20	9,918.01	-2,740.13	1,802.56	3,090.59	6.92	5.71	3.93	
10,836.00	88.90	178.70	9,922.70	-2,835.93	1,805.99	3,184.46	3.87	3.54	1.56	
10,930.00	89.30	178.70	9,924.17	-2,929.90	1,808.12	3,276.23	0.43	0.43	0.00	
11,025.00	89.50	178.10	9,925.17	-3,024.86	1,810.78	3,369.08	0.67	0.21	-0.63	
11,119.00	90.00	177.90	9,925.58	-3,118.80	1,814.06	3,461.10	0.57	0.53	-0.21	
11,213.00	89.20	179.40	9,926.23	-3,212.76	1,816.27	3,552.90	1.81	-0.85	1.60	
11,307.00	90.00	179.30	9,926.89	-3,306.76	1,817.34	3,644.44	0.86	0.85	-0.11	
11,402.00	87.50	179.30	9,928.96	-3,401.72	1,818.50	3,736.94	2.63	-2.63	0.00	
11,496.00	86.30	179.00	9,934.05	-3,495.57	1,819.89	3,828.42	1.32	-1.28	-0.32	
11,591.00	85.70	179.60	9,940.67	-3,590.33	1,821.05	3,920.73	0.89	-0.63	0.63	
11,686.00	86.20	180.10	9,947.38	-3,685.09	1,821.30	4,012.83	0.74	0.53	0.53	
11,780.00	88.20	180.10	9,951.97	-3,778.97	1,821.13	4,103.97	2.13	2.13	0.00	
11,875.00	90.00	180.00	9,953.47	-3,873.96	1,821.05	4,196.20	1.90	1.89	-0.11	
11,969.00	92.80	179.40	9,951.17	-3,967.92	1,821.54	4,287.57	3.05	2.98	-0.64	
12,064.00	95.10	179.50	9,944.63	-4,062.68	1,822.45	4,379.83	2.42	2.42	0.11	



Microsoft Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,157.00	97.10	179.60	9,934.74	-4,155.15	1,823.18	4,469.81	2.15	2.15	0.11
12,252.00	94.90	178.90	9,924.81	-4,249.61	1,824.42	4,561.85	2.43	-2.32	-0.74
12,346.00	93.70	179.20	9,917.77	-4,343.33	1,825.97	4,653.24	1.32	-1.28	0.32
12,441.00	91.40	179.00	9,913.54	-4,438.22	1,827.46	4,745.75	2.43	-2.42	-0.21
12,535.00	89.90	180.50	9,912.47	-4,532.21	1,827.87	4,837.13	2.26	-1.60	1.60
12,630.00	93.80	180.90	9,909.41	-4,627.13	1,826.71	4,929.05	4.13	4.11	0.42
12,725.00	89.90	180.10	9,906.34	-4,722.06	1,825.88	5,021.05	4.19	-4.11	-0.84
12,820.00	88.10	179.10	9,908.00	-4,817.04	1,826.55	5,113.45	2.17	-1.89	-1.05
12,915.00	89.50	179.30	9,909.99	-4,912.01	1,827.87	5,206.00	1.49	1.47	0.21
13,009.00	88.80	179.30	9,911.38	-5,005.99	1,829.02	5,297.55	0.74	-0.74	0.00
13,103.00	90.20	179.00	9,912.20	-5,099.97	1,830.41	5,389.16	1.52	1.49	-0.32
13,197.00	90.80	179.20	9,911.38	-5,193.96	1,831.89	5,480.80	0.67	0.64	0.21
13,292.00	90.20	178.90	9,910.55	-5,288.94	1,833.47	5,573.42	0.71	-0.63	-0.32
13,386.00	89.80	178.70	9,910.55	-5,382.92	1,835.43	5,665.16	0.48	-0.43	-0.21
13,481.00	90.50	178.30	9,910.30	-5,477.89	1,837.92	5,757.99	0.85	0.74	-0.42
13,575.00	89.30	177.90	9,910.47	-5,571.83	1,841.04	5,849.98	1.35	-1.28	-0.43
13,670.00	87.40	179.80	9,913.20	-5,666.77	1,842.94	5,942.63	2.83	-2.00	2.00
13,764.00	86.70	180.60	9,918.04	-5,760.64	1,842.62	6,033.72	1.13	-0.74	0.85
13,859.00	88.90	181.30	9,921.69	-5,855.55	1,841.04	6,125.53	2.43	2.32	0.74
13,953.00	90.20	181.60	9,922.43	-5,949.51	1,838.66	6,216.22	1.42	1.38	0.32
14,047.00	90.70	180.90	9,921.69	-6,043.49	1,836.61	6,307.00	0.92	0.53	-0.74
14,142.00	91.60	180.40	9,919.78	-6,138.46	1,835.54	6,398.99	1.08	0.95	-0.53
14,236.00	91.00	179.90	9,917.65	-6,232.44	1,835.29	6,490.20	0.83	-0.64	-0.53
14,330.00	92.30	180.20	9,914.94	-6,326.40	1,835.21	6,581.44	1.42	1.38	0.32
14,425.00	89.80	179.40	9,913.20	-6,421.37	1,835.54	6,673.76	2.76	-2.63	-0.84
14,520.00	91.60	179.40	9,912.04	-6,516.35	1,836.53	6,766.24	1.89	1.89	0.00
14,615.00	90.50	179.40	9,910.30	-6,611.33	1,837.53	6,858.73	1.16	-1.16	0.00
14,709.00	90.00	179.40	9,909.89	-6,705.33	1,838.51	6,950.25	0.53	-0.53	0.00
14,804.00	92.50	180.30	9,907.82	-6,800.29	1,838.76	7,042.54	2.80	2.63	0.95
14,898.00	91.50	180.90	9,904.54	-6,894.23	1,837.78	7,133.54	1.24	-1.06	0.64
14,993.00	89.30	179.80	9,903.87	-6,989.22	1,837.20	7,225.66	2.59	-2.32	-1.16
15,088.00	88.20	178.90	9,905.95	-7,084.19	1,838.28	7,318.15	1.50	-1.16	-0.95
15,183.00	88.30	178.60	9,908.85	-7,179.12	1,840.35	7,410.85	0.33	0.11	-0.32
15,277.00	88.90	178.70	9,911.14	-7,273.07	1,842.56	7,502.62	0.65	0.64	0.11
15,370.00	89.40	178.80	9,912.52	-7,366.03	1,844.59	7,593.39	0.55	0.54	0.11
15,465.00	89.80	179.40	9,913.19	-7,461.02	1,846.08	7,686.00	0.76	0.42	0.63
Last MWD Survey 15465 MD/9913.19 TVD -7461.02 S 1846.08 E N: 388411.8 E: 765923.2									
15,530.00	89.80	179.40	9,913.41	-7,526.01	1,846.76	7,749.29	0.00	0.00	0.00
Cross 100' FSL Sec 6 15530 MD/9913.41 TVD -7526.01 S 1846.76 E N: 388346.8 E: 765923.9									
15,535.00	89.80	179.40	9,913.43	-7,531.01	1,846.82	7,754.15	0.00	0.00	0.00
PTB 15535 MD/9913.43 TVD -7531.01 S 1846.82 E N: 388341.8 E: 765923.9									

**PANTHER**
Microsoft
 Survey Report

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 105H NAD 83
Project:	Lea County, NM (NAD 83)	TVD Reference:	3418.3+23 @ 3441.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3418.3+23 @ 3441.30usft
Well:	Red Hills 105H NAD 83	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
234.00	234.00	-0.92	-0.44	1st MWD Survey
10,439.00	9,842.03	-2,452.21	1,777.14	Cross 100' FNL Sec 6 10439 MD/9842.03 TVD -2452.21 S 1777.14 E N: 39342
15,465.00	9,913.19	-7,461.02	1,846.08	Last MWD Survey 15465 MD/9913.19 TVD -7461.02 S 1846.08 E N: 388411.8
15,530.00	9,913.41	-7,526.01	1,846.76	Cross 100' FSL Sec 6 15530 MD/9913.41 TVD -7526.01 S 1846.76 E N: 38834
15,535.00	9,913.43	-7,531.01	1,846.82	PTB 15535 MD/9913.43 TVD -7531.01 S 1846.82 E N: 388341.8 E: 765923.9

Checked By: _____ Approved By: _____ Date: _____

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 131318

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 131318
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/4/2022