

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. 30-025-45384
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>1,715</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
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,419.3' GR		8. Well Number 602H
9. OGRID Number 12361		10. Pool name or Wildcat Bell Lake; Wolfcamp, South

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 602H.

Original field/pool: [97994] WC-025 G-06 S253329D; UPR BONE SPRIN
 Requested field/pool: [98158] WC-025 G-09 S253236A; UPR WOLFCAMP

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
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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 30-025-45384	² Pool Code 98158	³ Pool Name Wildcat Upper Wolfcamp Oil Pool
⁴ Property Code 5467	⁵ Property Name RED HILLS	⁶ Well Number 602H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3419.3

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		2400	SOUTH	1715	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		115	SOUTH	1351	WEST	LEA
¹² Dedicated Acres 478.8	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-20051						

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 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. 5/13/21 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 18, 2021 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number: 12797 Survey No. 6099D
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Intent ☐ As Drilled ☒

API # 30-025-45384		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 602H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	31	25S	33E	3	2359	SOUTH	1715	WEST	LEA
Latitude 32.0867742					Longitude 103.6161016				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	31	25S	33E	3	2255	SOUTH	1244	WEST	LEA
Latitude 32.0859930					Longitude 103.6159033				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	6	26S	33E		234	SOUTH	1348	WEST	LEA
Latitude 32.0659363					Longitude 103.6154906				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



Kaiser-Francis Oil Company

Lea County, NM (NAD 83)

Sec 31-T25S-R33E

Red Hills 602H

Wellbore #1

Survey: Survey #1

Survey Report - Geographic

16 December, 2019

KAISER-FRANCIS OIL COMPANY



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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:	32.08639150
From:	Map	Easting:	764,056.94 usft	Longitude:	-103.61418903
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	Red Hills 602H					
Well Position	+N/-S	0.00 usft	Northing:	395,908.36 usft	Latitude:	32.08639164
	+E/-W	0.00 usft	Easting:	763,996.93 usft	Longitude:	-103.61438280
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,419.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/22/19	6.70	59.90	47,602.27912485

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	182.19	

Survey Program	Date	12/16/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
236.00	20,275.00	Survey #1 (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	395,908.36	763,996.93	32.08639164	-103.61438280
236.00	1.10	209.00	235.99	-1.98	-1.10	395,906.38	763,995.83	32.08638621	-103.61438639
1st MWD Survey									
330.00	1.90	222.40	329.95	-3.92	-2.59	395,904.44	763,994.34	32.08638091	-103.61439123
424.00	1.90	203.20	423.90	-6.50	-4.25	395,901.85	763,992.67	32.08637384	-103.61439666
517.00	1.40	223.10	516.86	-8.75	-5.63	395,899.61	763,991.29	32.08636769	-103.61440118
611.00	1.20	236.90	610.84	-10.13	-7.24	395,898.23	763,989.68	32.08636393	-103.61440640
705.00	0.40	197.30	704.83	-10.98	-8.17	395,897.38	763,988.76	32.08636161	-103.61440940
798.00	0.90	48.80	797.83	-10.81	-7.71	395,897.55	763,989.21	32.08636207	-103.61440793
875.00	1.10	37.70	874.82	-9.82	-6.81	395,898.53	763,990.12	32.08636476	-103.61440498
983.00	1.00	52.80	982.80	-8.43	-5.42	395,899.92	763,991.50	32.08636856	-103.61440048
1,076.00	0.70	60.20	1,075.79	-7.66	-4.28	395,900.70	763,992.64	32.08637066	-103.61439679



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,169.00	0.70	83.00	1,168.78	-7.31	-3.23	395,901.05	763,993.70	32.08637161	-103.61439337
1,263.00	0.80	132.40	1,262.77	-7.68	-2.17	395,900.68	763,994.76	32.08637056	-103.61438997
1,356.00	0.80	132.60	1,355.76	-8.56	-1.21	395,899.80	763,995.71	32.08636813	-103.61438690
1,450.00	0.90	136.40	1,449.75	-9.54	-0.22	395,898.82	763,996.70	32.08636543	-103.61438372
1,544.00	0.70	42.10	1,543.75	-9.65	0.67	395,898.71	763,997.60	32.08636511	-103.61438083
1,638.00	1.80	343.50	1,637.73	-7.80	0.64	395,900.55	763,997.56	32.08637017	-103.61438090
1,731.00	1.90	333.60	1,730.68	-5.02	-0.46	395,903.33	763,996.46	32.08637784	-103.61438440
1,825.00	1.90	331.10	1,824.63	-2.26	-1.91	395,906.09	763,995.02	32.08638545	-103.61438901
1,920.00	1.80	328.50	1,919.58	0.39	-3.45	395,908.74	763,993.48	32.08639277	-103.61439392
2,014.00	0.90	322.60	2,013.55	2.23	-4.67	395,910.59	763,992.26	32.08639786	-103.61439782
2,108.00	0.60	311.80	2,107.54	3.15	-5.48	395,911.50	763,991.44	32.08640039	-103.61440044
2,203.00	0.40	301.60	2,202.54	3.65	-6.14	395,912.01	763,990.79	32.08640179	-103.61440253
2,297.00	0.20	305.60	2,296.54	3.92	-6.55	395,912.28	763,990.38	32.08640253	-103.61440386
2,391.00	0.00	66.30	2,390.54	4.02	-6.68	395,912.37	763,990.24	32.08640280	-103.61440429
2,486.00	0.10	15.90	2,485.54	4.10	-6.66	395,912.45	763,990.27	32.08640302	-103.61440421
2,580.00	0.30	27.40	2,579.54	4.39	-6.52	395,912.75	763,990.40	32.08640383	-103.61440377
2,675.00	0.60	37.50	2,674.53	5.01	-6.11	395,913.37	763,990.82	32.08640552	-103.61440241
2,769.00	0.60	48.70	2,768.53	5.72	-5.44	395,914.08	763,991.49	32.08640747	-103.61440023
2,864.00	0.70	71.20	2,863.52	6.24	-4.51	395,914.60	763,992.41	32.08640887	-103.61439724
2,958.00	0.70	72.50	2,957.52	6.60	-3.42	395,914.95	763,993.50	32.08640983	-103.61439371
3,052.00	0.80	75.80	3,051.51	6.93	-2.24	395,915.29	763,994.69	32.08641073	-103.61438988
3,147.00	0.50	84.80	3,146.50	7.13	-1.18	395,915.49	763,995.74	32.08641126	-103.61438647
3,241.00	0.30	302.20	3,240.50	7.30	-0.98	395,915.66	763,995.94	32.08641172	-103.61438582
3,336.00	0.80	39.50	3,335.50	7.94	-0.77	395,916.30	763,996.15	32.08641349	-103.61438512
3,430.00	2.10	53.30	3,429.47	9.48	1.03	395,917.84	763,997.95	32.08641767	-103.61437928
3,525.00	1.10	51.20	3,524.43	11.09	3.13	395,919.45	764,000.06	32.08642207	-103.61437245
3,619.00	0.60	33.60	3,618.42	12.07	4.11	395,920.42	764,001.03	32.08642473	-103.61436928
3,713.00	0.70	4.90	3,712.41	13.05	4.43	395,921.40	764,001.36	32.08642742	-103.61436822
3,808.00	1.70	34.40	3,807.39	14.79	5.27	395,923.15	764,002.20	32.08643219	-103.61436545
3,902.00	0.20	333.90	3,901.37	16.09	5.99	395,924.44	764,002.92	32.08643575	-103.61436311
3,997.00	0.60	198.00	3,996.37	15.76	5.76	395,924.12	764,002.69	32.08643486	-103.61436385
4,091.00	0.80	191.30	4,090.37	14.65	5.48	395,923.01	764,002.41	32.08643181	-103.61436478
4,186.00	1.70	138.20	4,185.35	12.95	6.29	395,921.31	764,003.22	32.08642712	-103.61436220
4,280.00	2.50	135.40	4,279.28	10.45	8.66	395,918.81	764,005.59	32.08642021	-103.61435461
4,375.00	0.20	254.80	4,374.25	8.93	9.96	395,917.29	764,006.88	32.08641601	-103.61435046
4,469.00	1.20	168.10	4,468.24	7.93	10.00	395,916.28	764,006.93	32.08641324	-103.61435034
4,563.00	3.10	145.20	4,562.18	4.88	11.65	395,913.23	764,008.58	32.08640482	-103.61434506
4,658.00	2.50	147.60	4,657.06	1.02	14.23	395,909.37	764,011.16	32.08639417	-103.61433683
4,753.00	1.10	222.60	4,752.02	-1.40	14.72	395,906.95	764,011.65	32.08638751	-103.61433529
4,846.00	1.20	236.80	4,845.00	-2.59	13.30	395,905.76	764,010.23	32.08638426	-103.61433990
4,940.00	1.30	228.10	4,938.98	-3.85	11.69	395,904.51	764,008.61	32.08638085	-103.61434515
5,034.00	1.20	227.40	5,032.96	-5.22	10.17	395,903.13	764,007.10	32.08637709	-103.61435008
5,129.00	1.10	229.90	5,127.94	-6.48	8.74	395,901.87	764,005.67	32.08637365	-103.61435472
5,223.00	1.00	232.40	5,221.92	-7.57	7.40	395,900.79	764,004.33	32.08637070	-103.61435907
5,318.00	0.80	239.70	5,316.91	-8.41	6.17	395,899.95	764,003.10	32.08636842	-103.61436306
5,412.00	0.80	249.30	5,410.90	-8.97	4.99	395,899.39	764,001.92	32.08636689	-103.61436688
5,507.00	1.20	315.30	5,505.89	-8.50	3.67	395,899.86	764,000.60	32.08636821	-103.61437113
5,602.00	2.40	304.70	5,600.84	-6.66	1.33	395,901.70	763,998.26	32.08637331	-103.61437863
5,696.00	3.80	294.20	5,694.70	-4.26	-3.13	395,904.10	763,993.80	32.08637998	-103.61439298
5,790.00	5.40	289.20	5,788.40	-1.53	-10.14	395,906.83	763,986.78	32.08638762	-103.61441558
5,885.00	6.50	287.40	5,882.89	1.55	-19.50	395,909.91	763,977.43	32.08639625	-103.61444571
5,979.00	7.50	281.60	5,976.18	4.37	-30.58	395,912.73	763,966.34	32.08640422	-103.61448145
6,074.00	8.40	278.90	6,070.27	6.69	-43.51	395,915.05	763,953.41	32.08641084	-103.61452314
6,168.00	9.50	277.60	6,163.13	8.78	-57.99	395,917.14	763,938.94	32.08641684	-103.61456983
6,262.00	10.80	279.10	6,255.65	11.20	-74.37	395,919.56	763,922.55	32.08642379	-103.61462268



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,356.00	10.80	278.30	6,347.99	13.87	-91.78	395,922.22	763,905.14	32.08643143	-103.61467884
6,450.00	10.60	277.50	6,440.35	16.27	-109.07	395,924.62	763,887.86	32.08643835	-103.61473460
6,544.00	10.40	276.90	6,532.78	18.41	-126.06	395,926.77	763,870.86	32.08644456	-103.61478942
6,639.00	9.90	276.70	6,626.29	20.40	-142.69	395,928.75	763,854.24	32.08645032	-103.61484305
6,733.00	10.50	279.70	6,718.81	22.78	-159.16	395,931.14	763,837.77	32.08645718	-103.61489617
6,827.00	11.00	279.90	6,811.16	25.77	-176.43	395,934.12	763,820.49	32.08646570	-103.61495189
6,922.00	10.20	278.00	6,904.54	28.50	-193.69	395,936.85	763,803.24	32.08647351	-103.61500756
7,016.00	9.50	277.80	6,997.15	30.71	-209.62	395,939.06	763,787.31	32.08647988	-103.61505894
7,111.00	10.20	277.70	7,090.75	32.90	-225.72	395,941.26	763,771.20	32.08648620	-103.61511088
7,206.00	10.20	278.00	7,184.25	35.20	-242.39	395,943.55	763,754.54	32.08649282	-103.61516464
7,300.00	9.80	277.70	7,276.82	37.43	-258.56	395,945.78	763,738.37	32.08649925	-103.61521680
7,395.00	10.60	279.90	7,370.32	40.01	-275.18	395,948.37	763,721.75	32.08650666	-103.61527040
7,489.00	10.60	279.80	7,462.71	42.97	-292.21	395,951.33	763,704.71	32.08651510	-103.61532535
7,583.00	9.30	279.20	7,555.30	45.66	-308.23	395,954.01	763,688.69	32.08652278	-103.61537701
7,678.00	9.30	284.40	7,649.05	48.79	-323.24	395,957.15	763,673.68	32.08653167	-103.61542541
7,772.00	11.10	288.50	7,741.56	53.55	-339.18	395,961.91	763,657.74	32.08654505	-103.61547677
7,866.00	11.20	287.00	7,833.79	59.09	-356.49	395,967.45	763,640.43	32.08656060	-103.61553254
7,960.00	10.40	291.50	7,926.12	64.87	-373.12	395,973.23	763,623.81	32.08657678	-103.61558610
8,055.00	11.20	301.80	8,019.45	72.88	-388.94	395,981.23	763,607.99	32.08659908	-103.61563701
8,150.00	10.60	302.10	8,112.73	82.38	-404.18	395,990.74	763,592.74	32.08662548	-103.61568602
8,244.00	10.10	300.70	8,205.20	91.18	-418.59	395,999.54	763,578.33	32.08664994	-103.61573236
8,338.00	9.30	300.00	8,297.86	99.19	-432.26	396,007.55	763,564.67	32.08667220	-103.61577631
8,432.00	8.40	296.40	8,390.74	106.04	-444.99	396,014.40	763,551.94	32.08669126	-103.61581726
8,527.00	7.70	295.70	8,484.80	111.89	-456.94	396,020.24	763,539.99	32.08670755	-103.61585571
8,621.00	6.80	294.30	8,578.05	116.91	-467.68	396,025.26	763,529.24	32.08672155	-103.61589030
8,716.00	6.20	293.20	8,672.44	121.24	-477.53	396,029.60	763,519.40	32.08673364	-103.61592198
8,811.00	5.60	288.80	8,766.94	124.76	-486.63	396,033.11	763,510.30	32.08674347	-103.61595130
8,905.00	5.00	285.90	8,860.54	127.36	-494.91	396,035.71	763,502.02	32.08675077	-103.61597798
9,000.00	4.30	282.60	8,955.22	129.27	-502.37	396,037.63	763,494.56	32.08675616	-103.61600202
9,094.00	3.80	278.60	9,048.99	130.50	-508.89	396,038.86	763,488.04	32.08675967	-103.61602304
9,189.00	3.10	273.70	9,143.81	131.14	-514.56	396,039.50	763,482.36	32.08676153	-103.61604135
9,283.00	2.20	279.20	9,237.71	131.59	-518.88	396,039.95	763,478.05	32.08676285	-103.61605528
9,378.00	2.20	272.50	9,332.64	131.96	-522.50	396,040.32	763,474.42	32.08676393	-103.61606697
9,473.00	1.60	263.00	9,427.59	131.88	-525.64	396,040.24	763,471.29	32.08676377	-103.61607710
9,567.00	0.70	299.90	9,521.57	132.01	-527.44	396,040.36	763,469.49	32.08676415	-103.61608291
9,662.00	0.70	7.10	9,616.57	132.87	-527.87	396,041.23	763,469.05	32.08676653	-103.61608429
9,757.00	0.30	286.40	9,711.56	133.52	-528.04	396,041.88	763,468.89	32.08676831	-103.61608481
9,851.00	0.50	198.90	9,805.56	133.20	-528.41	396,041.56	763,468.52	32.08676744	-103.61608601
9,945.00	0.30	228.90	9,899.56	132.65	-528.73	396,041.01	763,468.20	32.08676594	-103.61608705
10,040.00	0.20	271.90	9,994.56	132.49	-529.08	396,040.85	763,467.85	32.08676551	-103.61608819
10,134.00	0.40	242.00	10,088.56	132.34	-529.53	396,040.70	763,467.39	32.08676511	-103.61608966
10,229.00	0.30	194.60	10,183.56	131.95	-529.89	396,040.30	763,467.04	32.08676403	-103.61609082
10,323.00	0.40	157.20	10,277.55	131.41	-529.82	396,039.76	763,467.10	32.08676254	-103.61609062
10,417.00	0.00	271.80	10,371.55	131.10	-529.70	396,039.46	763,467.23	32.08676171	-103.61609022
10,512.00	0.20	75.90	10,466.55	131.15	-529.53	396,039.50	763,467.39	32.08676181	-103.61608970
10,606.00	0.70	90.30	10,560.55	131.18	-528.80	396,039.54	763,468.12	32.08676190	-103.61608733
10,700.00	0.70	98.20	10,654.54	131.10	-527.66	396,039.45	763,469.27	32.08676165	-103.61608364
10,795.00	0.20	60.80	10,749.54	131.10	-526.94	396,039.45	763,469.99	32.08676163	-103.61608132
10,889.00	0.60	350.30	10,843.54	131.66	-526.88	396,040.02	763,470.05	32.08676318	-103.61608111
10,983.00	2.30	355.20	10,937.50	134.03	-527.12	396,042.38	763,469.81	32.08676969	-103.61608184
11,078.00	2.80	351.20	11,032.41	138.22	-527.63	396,046.57	763,469.29	32.08678122	-103.61608341
11,172.00	2.00	327.40	11,126.33	141.87	-528.87	396,050.23	763,468.06	32.08679128	-103.61608732
11,266.00	1.50	334.90	11,220.29	144.36	-530.28	396,052.72	763,466.65	32.08679816	-103.61609180
11,360.00	0.60	276.70	11,314.27	145.54	-531.29	396,053.89	763,465.64	32.08680140	-103.61609504
11,455.00	0.70	235.90	11,409.26	145.27	-532.26	396,053.63	763,464.67	32.08680069	-103.61609819



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,549.00	0.70	209.50	11,503.26	144.45	-533.02	396,052.80	763,463.91	32.08679844	-103.61610066
11,653.00	0.70	167.40	11,607.25	143.27	-533.19	396,051.63	763,463.73	32.08679522	-103.61610125
11,747.00	0.60	144.80	11,701.25	142.31	-532.78	396,050.67	763,464.14	32.08679257	-103.61609995
11,842.00	0.40	164.70	11,796.24	141.59	-532.41	396,049.94	763,464.52	32.08679056	-103.61609875
11,936.00	0.70	184.60	11,890.24	140.70	-532.37	396,049.05	763,464.56	32.08678812	-103.61609864
12,030.00	1.20	197.70	11,984.22	139.19	-532.71	396,047.54	763,464.21	32.08678398	-103.61609979
12,124.00	1.30	190.70	12,078.20	137.20	-533.21	396,045.56	763,463.71	32.08677853	-103.61610144
12,180.00	1.90	182.70	12,134.18	135.65	-533.37	396,044.01	763,463.55	32.08677427	-103.61610199
12,219.00	3.50	172.60	12,173.14	133.82	-533.25	396,042.18	763,463.68	32.08676924	-103.61610164
12,266.00	5.60	175.90	12,219.98	130.11	-532.90	396,038.47	763,464.02	32.08675904	-103.61610059
12,313.00	10.30	176.60	12,266.52	123.63	-532.49	396,031.98	763,464.44	32.08674120	-103.61609939
12,360.00	13.90	172.30	12,312.47	113.84	-531.48	396,022.19	763,465.44	32.08671427	-103.61609636
12,408.00	18.70	164.40	12,358.53	100.70	-528.64	396,009.06	763,468.29	32.08667811	-103.61608746
12,455.00	21.50	163.60	12,402.66	85.18	-524.18	395,993.54	763,472.75	32.08663537	-103.61607339
12,502.00	26.80	162.90	12,445.54	66.78	-518.63	395,975.13	763,478.30	32.08658468	-103.61605587
12,565.00	31.10	166.60	12,500.66	37.36	-510.68	395,945.71	763,486.25	32.08650367	-103.61603083
12,597.00	32.80	167.00	12,527.81	20.87	-506.81	395,929.23	763,490.11	32.08645828	-103.61601870
12,628.00	36.70	168.00	12,553.27	3.62	-503.00	395,911.98	763,493.93	32.08641080	-103.61600675
12,660.00	41.60	169.10	12,578.08	-16.17	-499.00	395,892.18	763,497.93	32.08635631	-103.61599426
12,691.00	45.70	169.50	12,600.51	-37.20	-495.03	395,871.16	763,501.90	32.08629846	-103.61598190
12,738.00	51.60	168.70	12,631.55	-71.82	-488.35	395,836.53	763,508.58	32.08620315	-103.61596107
12,785.00	56.40	166.50	12,659.17	-108.94	-480.16	395,799.42	763,516.76	32.08610097	-103.61593545
12,832.00	62.90	164.60	12,682.90	-148.19	-470.03	395,760.17	763,526.90	32.08599291	-103.61590356
12,880.00	69.30	165.00	12,702.34	-190.52	-458.53	395,717.84	763,538.39	32.08587635	-103.61586736
12,927.00	73.90	167.00	12,717.17	-233.78	-447.76	395,674.58	763,549.17	32.08575724	-103.61583349
12,974.00	76.30	170.20	12,729.26	-278.29	-438.79	395,630.07	763,558.14	32.08563473	-103.61580549
13,021.00	75.90	170.50	12,740.55	-323.27	-431.14	395,585.09	763,565.79	32.08551095	-103.61578177
13,069.00	79.50	171.40	12,750.77	-369.58	-423.77	395,538.78	763,573.16	32.08538353	-103.61575896
13,096.00	84.50	171.20	12,754.53	-396.00	-419.72	395,512.36	763,577.20	32.08531083	-103.61574647
13,128.00	87.20	171.00	12,756.85	-427.53	-414.79	395,480.83	763,582.14	32.08522408	-103.61573121
13,190.00	87.00	170.10	12,759.98	-488.61	-404.62	395,419.75	763,592.31	32.08505600	-103.61569969
13,284.00	90.00	170.20	12,762.44	-581.18	-388.55	395,327.18	763,608.38	32.08480125	-103.61564979
13,379.00	91.50	171.60	12,761.20	-674.97	-373.52	395,233.39	763,623.40	32.08454316	-103.61560330
13,473.00	92.00	172.80	12,758.33	-768.05	-360.77	395,140.30	763,636.15	32.08428706	-103.61556413
13,567.00	90.40	174.50	12,756.36	-861.45	-350.38	395,046.91	763,646.55	32.08403015	-103.61553258
13,662.00	89.20	174.50	12,756.69	-956.01	-341.27	394,952.35	763,655.65	32.08377006	-103.61550521
13,756.00	90.60	176.50	12,756.86	-1,049.71	-333.90	394,858.64	763,663.03	32.08351236	-103.61548342
13,850.00	90.40	178.40	12,756.04	-1,143.61	-329.72	394,764.74	763,667.21	32.08325418	-103.61547193
13,944.00	89.50	180.30	12,756.12	-1,237.60	-328.65	394,670.76	763,668.27	32.08299581	-103.61547051
14,039.00	89.50	181.00	12,756.95	-1,332.59	-329.73	394,575.77	763,667.20	32.08273472	-103.61547603
14,133.00	88.40	180.80	12,758.67	-1,426.56	-331.21	394,481.80	763,665.72	32.08247645	-103.61548282
14,228.00	88.50	181.40	12,761.24	-1,521.51	-333.03	394,386.85	763,663.90	32.08221550	-103.61549074
14,322.00	88.70	181.10	12,763.54	-1,615.46	-335.08	394,292.90	763,661.85	32.08195729	-103.61549938
14,417.00	89.50	180.20	12,765.03	-1,710.44	-336.16	394,197.92	763,660.77	32.08169623	-103.61550490
14,511.00	90.10	178.40	12,765.36	-1,804.43	-335.01	394,103.93	763,661.92	32.08143786	-103.61550321
14,605.00	90.50	179.60	12,764.86	-1,898.41	-333.37	394,009.95	763,663.56	32.08117950	-103.61549993
14,699.00	90.00	179.40	12,764.45	-1,992.40	-332.55	393,915.95	763,664.38	32.08092111	-103.61549931
14,794.00	88.90	179.60	12,765.37	-2,087.40	-331.72	393,820.96	763,665.21	32.08065999	-103.61549867
14,888.00	90.60	180.30	12,765.78	-2,181.39	-331.64	393,726.97	763,665.29	32.08040162	-103.61550042
14,982.00	90.00	179.00	12,765.28	-2,275.38	-331.06	393,632.97	763,665.86	32.08014324	-103.61550059
15,076.00	90.30	180.70	12,765.04	-2,369.38	-330.82	393,538.98	763,666.11	32.07988487	-103.61550181
15,110.00	90.05	180.56	12,764.93	-2,403.38	-331.19	393,504.98	763,665.74	32.07979142	-103.61550375
Cross Section Line 15110 MD/12764.93 TVD -2403.38 S -331.19 W N: 393504.9 E: 763665.7									
15,171.00	89.60	180.30	12,765.12	-2,464.38	-331.64	393,443.98	763,665.28	32.07962376	-103.61550653
15,266.00	90.40	179.10	12,765.12	-2,559.37	-331.15	393,348.98	763,665.78	32.07936263	-103.61550697



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,360.00	90.90	180.20	12,764.05	-2,653.36	-330.57	393,254.99	763,666.35	32.07910426	-103.61550713
15,455.00	90.10	180.20	12,763.22	-2,748.36	-330.90	393,160.00	763,666.02	32.07884315	-103.61551024
15,549.00	89.70	180.50	12,763.39	-2,842.36	-331.48	393,066.00	763,665.45	32.07858479	-103.61551412
15,644.00	89.80	179.30	12,763.80	-2,937.35	-331.31	392,971.00	763,665.61	32.07832366	-103.61551562
15,738.00	90.50	178.30	12,763.56	-3,031.33	-329.34	392,877.03	763,667.58	32.07806530	-103.61551129
15,833.00	94.00	179.80	12,759.83	-3,126.23	-327.77	392,782.13	763,669.16	32.07780443	-103.61550824
15,927.00	93.40	182.30	12,753.76	-3,220.01	-329.49	392,688.35	763,667.44	32.07754668	-103.61551580
16,022.00	91.30	182.70	12,749.87	-3,314.83	-333.63	392,593.53	763,663.30	32.07728611	-103.61553121
16,116.00	87.30	182.10	12,751.01	-3,408.72	-337.56	392,499.63	763,659.36	32.07702810	-103.61554593
16,211.00	86.60	180.40	12,756.07	-3,503.56	-339.63	392,404.80	763,657.29	32.07676744	-103.61555465
16,305.00	89.70	180.40	12,759.10	-3,597.50	-340.29	392,310.86	763,656.64	32.07650925	-103.61555878
16,400.00	90.90	178.20	12,758.61	-3,692.48	-339.13	392,215.87	763,657.80	32.07624814	-103.61555708
16,494.00	93.20	178.40	12,755.24	-3,786.37	-336.34	392,121.98	763,660.58	32.07599000	-103.61555010
16,588.00	92.40	178.80	12,750.65	-3,880.23	-334.05	392,028.12	763,662.88	32.07573196	-103.61554471
16,683.00	90.60	178.20	12,748.16	-3,975.16	-331.56	391,933.19	763,665.36	32.07547098	-103.61553872
16,777.00	90.50	178.80	12,747.26	-4,069.13	-329.10	391,839.23	763,667.82	32.07521265	-103.61553280
16,872.00	90.30	178.00	12,746.60	-4,164.09	-326.45	391,744.27	763,670.48	32.07495158	-103.61552627
16,966.00	91.30	179.00	12,745.29	-4,258.04	-323.99	391,650.31	763,672.94	32.07469327	-103.61552035
17,061.00	93.10	179.40	12,741.64	-4,352.96	-322.66	391,555.40	763,674.26	32.07443235	-103.61551811
17,155.00	91.50	180.30	12,737.87	-4,446.88	-322.42	391,461.48	763,674.51	32.07417418	-103.61551933
17,251.00	89.50	178.80	12,737.03	-4,542.86	-321.66	391,365.49	763,675.26	32.07391032	-103.61551896
17,346.00	92.00	179.80	12,735.79	-4,637.84	-320.50	391,270.52	763,676.42	32.07364924	-103.61551725
17,440.00	91.20	178.30	12,733.16	-4,731.79	-318.95	391,176.57	763,677.98	32.07339097	-103.61551424
17,535.00	92.30	176.70	12,730.26	-4,826.65	-314.80	391,081.71	763,682.12	32.07313015	-103.61550291
17,629.00	92.00	178.50	12,726.73	-4,920.50	-310.87	390,987.86	763,686.05	32.07287211	-103.61549223
17,723.00	91.90	179.80	12,723.53	-5,014.43	-309.48	390,893.93	763,687.45	32.07261388	-103.61548975
17,818.00	90.40	180.20	12,721.63	-5,109.41	-309.48	390,798.95	763,687.45	32.07235281	-103.61549179
17,913.00	89.90	180.90	12,721.38	-5,204.40	-310.39	390,703.96	763,686.54	32.07209171	-103.61549677
18,007.00	89.40	180.90	12,721.95	-5,298.39	-311.87	390,609.97	763,685.06	32.07183340	-103.61550355
18,102.00	90.40	181.40	12,722.12	-5,393.37	-313.77	390,514.99	763,683.15	32.07157236	-103.61551175
18,197.00	90.60	181.80	12,721.29	-5,488.33	-316.43	390,420.03	763,680.50	32.07131138	-103.61552235
18,291.00	89.50	183.60	12,721.21	-5,582.22	-320.85	390,326.14	763,676.07	32.07105338	-103.61553866
18,386.00	86.60	182.50	12,724.44	-5,677.02	-325.91	390,231.34	763,671.02	32.07079290	-103.61555701
18,481.00	87.60	182.20	12,729.25	-5,771.81	-329.80	390,136.54	763,667.13	32.07053239	-103.61557160
18,575.00	88.40	181.40	12,732.53	-5,865.71	-332.75	390,042.65	763,664.18	32.07027435	-103.61558314
18,669.00	89.20	180.30	12,734.50	-5,959.67	-334.14	389,948.68	763,662.79	32.07001609	-103.61558966
18,764.00	88.60	178.20	12,736.32	-6,054.64	-332.90	389,853.71	763,664.03	32.06975502	-103.61558768
18,858.00	88.70	177.40	12,738.54	-6,148.55	-329.29	389,759.81	763,667.64	32.06949683	-103.61557806
18,953.00	90.90	179.00	12,738.87	-6,243.49	-326.31	389,664.87	763,670.62	32.06923580	-103.61557046
19,047.00	92.70	180.30	12,735.91	-6,337.44	-325.73	389,570.92	763,671.19	32.06897756	-103.61557063
19,142.00	93.00	180.80	12,731.19	-6,432.31	-326.64	389,476.04	763,670.28	32.06871678	-103.61557560
19,237.00	88.00	178.10	12,730.36	-6,527.27	-325.73	389,381.09	763,671.20	32.06845576	-103.61557470
19,331.00	87.60	178.60	12,733.97	-6,621.16	-323.03	389,287.20	763,673.90	32.06819762	-103.61556798
19,426.00	90.70	180.60	12,735.38	-6,716.13	-322.36	389,192.23	763,674.56	32.06793656	-103.61556788
19,520.00	89.90	178.40	12,734.89	-6,810.12	-321.54	389,098.24	763,675.38	32.06767819	-103.61556725
19,615.00	90.90	177.20	12,734.22	-6,905.04	-317.90	389,003.31	763,679.03	32.06741720	-103.61555752
19,709.00	85.80	175.40	12,736.93	-6,998.77	-311.84	388,909.58	763,685.09	32.06715945	-103.61553997
19,804.00	89.40	178.30	12,740.91	-7,093.52	-306.63	388,814.84	763,690.30	32.06689891	-103.61552518
19,898.00	90.20	178.00	12,741.24	-7,187.47	-303.59	388,720.89	763,693.34	32.06664061	-103.61551741
19,992.00	92.60	178.00	12,738.94	-7,281.38	-300.31	388,626.98	763,696.61	32.06638242	-103.61550884
20,087.00	92.70	177.50	12,734.55	-7,376.20	-296.59	388,532.15	763,700.34	32.06612170	-103.61549885
20,182.00	93.00	177.60	12,729.82	-7,471.00	-292.53	388,437.36	763,704.40	32.06586106	-103.61548779
20,214.00	94.20	178.30	12,727.81	-7,502.91	-291.39	388,405.44	763,705.54	32.06577331	-103.61548479
Last MWD Survey 20214 MD/12727.81 TVD -7502.91 S -291.39 W N: 388405.4 E: 763705.5									

**PANTHER****Microsoft**

Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 602H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3419.3+23 @ 3442.30usft
Site:	Sec 31-T25S-R33E	MD Reference:	3419.3+23 @ 3442.30usft
Well:	Red Hills 602H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,275.00	94.20	178.30	12,723.35	-7,563.72	-289.58	388,344.63	763,707.34	32.06560613	-103.61548027
PTB 20275 MD/12723.35 TVD -7563.72 S -289.58 W N: 388344.6 E: 763707.3									

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
236.00	235.99	-1.98	-1.10	1st MWD Survey	
15,110.00	12,764.93	-2,403.38	-331.19	Cross Section Line 15110 MD/12764.93 TVD -2403.38 S -331.19 W N: 393504.	
20,214.00	12,727.81	-7,502.91	-291.39	Last MWD Survey 20214 MD/12727.81 TVD -7502.91 S -291.39 W N: 388405.4	
20,275.00	12,723.35	-7,563.72	-289.58	PTB 20275 MD/12723.35 TVD -7563.72 S -289.58 W N: 388344.6 E: 763707.3	

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 131208

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 131208
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/3/2022