

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Kaiser-Francis Oil Company P.O. Box 21468, Tulsa, OK, 74121-1468		² OGRID Number 12361	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 025-46657	⁵ Pool Name Wildcat Upper Wolfcamp Oil Pool		⁶ Pool Code 98158
⁷ Property Code 5467	⁸ Property Name Red Hills Federal		⁹ Well Number 601H

II. 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
3	31	25S	33E		2195	South	364	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	6	26S	33E		138	South	380	West	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	Markwest Tornado GP, LLC 1515 Araphoe St., Suite 1600 Denver, CO 80202	G
	Plains Pipeline LP 333 Clay St., #1600 Houston, TX 77002	O

IV. Well Completion Data

²¹ Spud Date 1/11/20	²² Ready Date 2/3/21	²³ TD 20,161MD/ 12,795TVD	²⁴ PBTD 20,007MD/ 12,760TVD	²⁵ Perforations 12,966-19,977	²⁶ DHC, MC -
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4	10-3/4	938	530 SX		
9-7/8	7-5/8	11,559	1,040 SX		
9-7/8	DV Tool	5,226	860 SX		
6-3/4	5-1/2	20,145	1,590 SX		

V. Well Test Data

³¹ Date New Oil 2/4/21	³² Gas Delivery Date 2/4/21	³³ Test Date 3/2/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 4,100
³⁷ Choke Size 26/64"	³⁸ Oil 464	³⁹ Water 4,372	⁴⁰ Gas 2,171		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Erica Miles			OIL CONSERVATION DIVISION Approved by: KURT SIMMONS Title: NMOCD, SANTA FE Approval Date: 09/07/2021		
Printed name: Erica Miles					
Title: Geosciences Technician					
E-mail Address: EricaM@kfoc.net					
Date: 5/13/21		Phone:918-491-4548			

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: (505) 748-1283 Fax: (505) 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
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46657		² Pool Code 98158	³ Pool Name Wildcat Upper Wolfcamp Oil Pool	
⁴ Property Code 5467	⁵ Property Name RED HILLS FEDERAL			⁶ Well Number 601H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY			⁹ Elevation 3407.1

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
3	31	25 S	33 E		2195	SOUTH	364	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
4	6	26 S	33 E		138	SOUTH	380	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
478.8			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.

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

2633.99 FT QUARTER CORNER 2643.42 FT
LAT. = 32.0797943°N
LONG. = 103.6113923°W
NMSP EAST (FT)
N = 393514.54
E = 764939.16

LATITUDE AND LONGITUDE
VALUES ARE NAD 83
STATE PLANE VALUES ARE
NMSP EAST GRID

BOTTOM OF HOLE
LAT. = 32.0656722°N
LONG. = 103.6186158°W
NMSP EAST (FT)
N = 388362.22
E = 762735.88

FIRST TAKE POINT
2040' FSL, 331' FWL
LAT. = 32.0854046°N
LONG. = 103.6188468°W

SEC. 31
RED HILLS 601H
ELEV. = 3407.1'
LAT. = 32.0858302°N (NAD83)
LONG. = 103.6187419°W
NMSP EAST (FT)
N = 395695.14
E = 762648.22

LAST TAKE POINT
271' FSL, 382' FWL
LAT. = 32.0660376°N
LONG. = 103.6186101°W

2632.14 FT 2632.14 FT
N89°35'41"E N89°35'41"E

2632.14 FT 2632.14 FT
N89°35'41"E N89°35'41"E

Intent ☐ As Drilled ☒

API # 30-025-46657		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS FEDERAL	Well Number 601H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	31	25S	33E	3	2466	SOUTH	257	WEST	LEA
Latitude 32.0865761					Longitude 103.6190904				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	2040	SOUTH	331	WEST	LEA
Latitude 32.0854046					Longitude 103.6188468				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	6	26S	33E	4	271	SOUTH	382	WEST	LEA
Latitude 32.0660376					Longitude 103.6186101				NAD 83

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

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

API # 30-025-46657		
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 601H

Wellbore #1

Survey: Survey #1

Survey Report - Geographic

04 February, 2020

KAISER-FRANCIS OIL COMPANY

**PANTHER**

Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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	
From:		Easting:		764,056.94 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Map		13-3/16 "		0.38 °	
0.00 usft					

Well	Red Hills 601H					
Well Position	+N/-S	0.00 usft	Northing:	395,695.13 usft	Latitude:	32.085830
	+E/-W	0.00 usft	Easting:	762,640.22 usft	Longitude:	-103.618768
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,407.10 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/04/20	6.68	59.89	47,580.82798489

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	179.21	

Survey Program	Date	02/04/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
237.00	20,161.00	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	395,695.13	762,640.22	32.085830	-103.618768
237.00	0.40	96.50	237.00	-0.09	0.82	395,695.03	762,641.04	32.085830	-103.618765
1st MWD Survey									
330.00	0.20	53.90	330.00	-0.03	1.28	395,695.09	762,641.50	32.085830	-103.618764
423.00	0.40	3.90	423.00	0.38	1.43	395,695.51	762,641.65	32.085831	-103.618763
517.00	0.60	348.20	516.99	1.19	1.35	395,696.32	762,641.57	32.085834	-103.618764
611.00	0.90	350.80	610.98	2.40	1.13	395,697.53	762,641.35	32.085837	-103.618764
705.00	0.90	351.30	704.97	3.86	0.90	395,698.99	762,641.12	32.085841	-103.618765
798.00	0.60	10.20	797.96	5.06	0.88	395,700.19	762,641.10	32.085844	-103.618765
883.00	0.40	112.70	882.96	5.39	1.23	395,700.51	762,641.45	32.085845	-103.618764
983.00	0.30	106.60	982.96	5.18	1.80	395,700.31	762,642.03	32.085845	-103.618762
1,077.00	0.30	46.10	1,076.96	5.28	2.22	395,700.41	762,642.44	32.085845	-103.618761



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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
1,171.00	0.30	40.90	1,170.96	5.64	2.55	395,700.76	762,642.78	32.085846	-103.618760
1,264.00	0.30	46.10	1,263.96	5.99	2.89	395,701.11	762,643.11	32.085847	-103.618759
1,358.00	0.20	45.80	1,357.96	6.27	3.18	395,701.40	762,643.41	32.085848	-103.618758
1,451.00	0.30	25.00	1,450.96	6.61	3.40	395,701.73	762,643.63	32.085848	-103.618757
1,545.00	1.70	351.30	1,544.94	8.21	3.30	395,703.34	762,643.52	32.085853	-103.618757
1,639.00	3.60	345.70	1,638.83	12.45	2.36	395,707.57	762,642.58	32.085865	-103.618760
1,732.00	5.90	346.50	1,731.51	19.92	0.52	395,715.05	762,640.74	32.085885	-103.618766
1,825.00	8.40	337.20	1,823.78	30.84	-3.23	395,725.96	762,636.99	32.085915	-103.618778
1,920.00	8.60	336.70	1,917.74	43.76	-8.73	395,738.88	762,631.49	32.085951	-103.618795
2,014.00	8.40	339.00	2,010.71	56.62	-13.97	395,751.75	762,626.25	32.085986	-103.618812
2,109.00	8.40	339.90	2,104.69	69.62	-18.84	395,764.74	762,621.38	32.086022	-103.618827
2,203.00	8.10	339.50	2,197.71	82.27	-23.52	395,777.39	762,616.70	32.086057	-103.618842
2,298.00	8.00	339.20	2,291.78	94.72	-28.21	395,789.84	762,612.01	32.086091	-103.618857
2,392.00	8.00	338.80	2,384.86	106.93	-32.90	395,802.06	762,607.32	32.086125	-103.618872
2,487.00	8.00	338.80	2,478.94	119.26	-37.68	395,814.38	762,602.54	32.086159	-103.618887
2,581.00	7.90	339.70	2,572.03	131.41	-42.29	395,826.54	762,597.94	32.086192	-103.618902
2,675.00	7.70	340.80	2,665.16	143.42	-46.60	395,838.55	762,593.62	32.086225	-103.618915
2,770.00	7.60	342.60	2,759.32	155.42	-50.57	395,850.55	762,589.65	32.086259	-103.618928
2,864.00	7.60	344.20	2,852.49	167.34	-54.12	395,862.46	762,586.10	32.086291	-103.618939
2,959.00	7.40	343.70	2,946.68	179.25	-57.55	395,874.38	762,582.67	32.086324	-103.618950
3,053.00	8.40	338.90	3,039.79	191.47	-61.72	395,886.60	762,578.50	32.086358	-103.618963
3,148.00	8.70	333.60	3,133.73	204.38	-67.41	395,899.51	762,572.81	32.086393	-103.618981
3,242.00	8.10	332.60	3,226.73	216.63	-73.62	395,911.75	762,566.60	32.086427	-103.619001
3,336.00	7.60	333.00	3,319.84	228.04	-79.49	395,923.17	762,560.73	32.086459	-103.619020
3,431.00	7.50	341.30	3,414.02	239.51	-84.33	395,934.64	762,555.89	32.086490	-103.619035
3,525.00	7.60	349.70	3,507.21	251.44	-87.41	395,946.57	762,552.81	32.086523	-103.619045
3,619.00	8.00	347.40	3,600.34	263.94	-89.95	395,959.07	762,550.28	32.086558	-103.619053
3,714.00	7.80	350.90	3,694.44	276.76	-92.41	395,971.89	762,547.81	32.086593	-103.619060
3,808.00	7.40	348.70	3,787.62	288.99	-94.60	395,984.12	762,545.62	32.086626	-103.619067
3,902.00	5.80	340.50	3,880.99	299.41	-97.38	395,994.53	762,542.85	32.086655	-103.619076
3,996.00	4.00	334.10	3,974.64	306.83	-100.39	396,001.96	762,539.83	32.086676	-103.619086
4,090.00	2.80	313.60	4,068.48	311.37	-103.49	396,006.49	762,536.73	32.086688	-103.619095
4,185.00	1.40	317.90	4,163.41	313.83	-105.95	396,008.96	762,534.28	32.086695	-103.619103
4,279.00	0.40	6.80	4,257.40	315.01	-106.68	396,010.13	762,533.54	32.086698	-103.619106
4,373.00	0.50	354.40	4,351.40	315.74	-106.68	396,010.87	762,533.54	32.086700	-103.619106
4,468.00	0.90	120.80	4,446.40	315.77	-106.08	396,010.90	762,534.14	32.086700	-103.619104
4,562.00	2.30	129.90	4,540.36	314.18	-104.00	396,009.31	762,536.22	32.086696	-103.619097
4,657.00	1.60	154.20	4,635.30	311.77	-101.96	396,006.89	762,538.26	32.086689	-103.619091
4,751.00	1.10	175.60	4,729.28	309.68	-101.32	396,004.81	762,538.90	32.086683	-103.619089
4,846.00	0.90	174.70	4,824.26	308.03	-101.18	396,003.16	762,539.04	32.086679	-103.619088
4,940.00	0.80	173.00	4,918.25	306.65	-101.03	396,001.77	762,539.19	32.086675	-103.619088
5,034.00	0.90	170.80	5,012.24	305.27	-100.83	396,000.39	762,539.39	32.086671	-103.619087
5,129.00	0.90	167.90	5,107.23	303.80	-100.56	395,998.93	762,539.67	32.086667	-103.619086
5,223.00	0.80	169.20	5,201.22	302.43	-100.28	395,997.56	762,539.94	32.086664	-103.619085
5,318.00	0.80	172.90	5,296.21	301.12	-100.07	395,996.25	762,540.15	32.086660	-103.619085
5,412.00	0.80	159.90	5,390.20	299.86	-99.77	395,994.98	762,540.46	32.086656	-103.619084
5,507.00	0.80	148.20	5,485.19	298.67	-99.19	395,993.80	762,541.03	32.086653	-103.619082
5,601.00	0.70	284.50	5,579.19	298.26	-99.40	395,993.38	762,540.82	32.086652	-103.619083
5,695.00	1.80	294.00	5,673.17	299.00	-101.30	395,994.13	762,538.92	32.086654	-103.619089
5,789.00	2.10	299.90	5,767.11	300.46	-104.14	395,995.59	762,536.08	32.086658	-103.619098
5,883.00	1.90	300.50	5,861.05	302.11	-106.98	395,997.24	762,533.24	32.086663	-103.619107
5,978.00	1.80	296.50	5,956.00	303.57	-109.67	395,998.70	762,530.55	32.086667	-103.619116
6,072.00	1.70	298.20	6,049.96	304.89	-112.22	396,000.02	762,528.00	32.086671	-103.619124
6,166.00	1.60	302.00	6,143.92	306.25	-114.56	396,001.37	762,525.66	32.086674	-103.619131
6,261.00	1.60	300.40	6,238.88	307.62	-116.83	396,002.75	762,523.39	32.086678	-103.619139



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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	1.60	299.70	6,333.85	308.95	-119.13	396,004.08	762,521.09	32.086682	-103.619146
6,450.00	1.70	300.00	6,427.81	310.30	-121.48	396,005.42	762,518.75	32.086686	-103.619154
6,544.00	0.80	255.50	6,521.79	310.83	-123.32	396,005.96	762,516.90	32.086687	-103.619160
6,638.00	1.00	214.30	6,615.78	309.99	-124.42	396,005.11	762,515.80	32.086685	-103.619163
6,733.00	0.80	214.80	6,710.76	308.76	-125.26	396,003.88	762,514.96	32.086681	-103.619166
6,827.00	1.00	217.70	6,804.75	307.57	-126.14	396,002.70	762,514.08	32.086678	-103.619169
6,922.00	0.90	212.30	6,899.74	306.28	-127.04	396,001.41	762,513.18	32.086675	-103.619172
7,017.00	0.80	212.70	6,994.73	305.09	-127.80	396,000.22	762,512.42	32.086671	-103.619174
7,111.00	0.90	218.00	7,088.72	303.96	-128.61	395,999.09	762,511.61	32.086668	-103.619177
7,206.00	1.00	220.60	7,183.71	302.74	-129.61	395,997.87	762,510.61	32.086665	-103.619180
7,300.00	1.10	220.90	7,277.69	301.44	-130.73	395,996.56	762,509.49	32.086661	-103.619184
7,394.00	1.10	203.80	7,371.67	299.93	-131.69	395,995.06	762,508.53	32.086657	-103.619187
7,489.00	1.30	203.20	7,466.65	298.11	-132.48	395,993.23	762,507.74	32.086652	-103.619189
7,584.00	1.20	191.40	7,561.63	296.14	-133.10	395,991.27	762,507.12	32.086647	-103.619191
7,678.00	1.20	184.60	7,655.61	294.19	-133.38	395,989.32	762,506.85	32.086641	-103.619192
7,773.00	1.10	189.50	7,750.59	292.30	-133.61	395,987.43	762,506.62	32.086636	-103.619193
7,867.00	1.10	182.40	7,844.57	290.51	-133.79	395,985.64	762,506.43	32.086631	-103.619194
7,961.00	1.20	181.90	7,938.55	288.63	-133.86	395,983.75	762,506.36	32.086626	-103.619194
8,056.00	0.10	314.50	8,033.55	287.69	-133.96	395,982.82	762,506.27	32.086624	-103.619194
8,150.00	0.40	337.10	8,127.55	288.05	-134.14	395,983.18	762,506.08	32.086625	-103.619195
8,245.00	0.30	333.60	8,222.54	288.58	-134.38	395,983.71	762,505.84	32.086626	-103.619196
8,339.00	0.30	281.50	8,316.54	288.85	-134.73	395,983.97	762,505.49	32.086627	-103.619197
8,433.00	0.40	261.50	8,410.54	288.85	-135.30	395,983.98	762,504.92	32.086627	-103.619199
8,527.00	0.40	247.60	8,504.54	288.67	-135.93	395,983.80	762,504.30	32.086626	-103.619201
8,622.00	0.80	100.60	8,599.54	288.43	-135.58	395,983.55	762,504.64	32.086626	-103.619200
8,716.00	0.70	121.40	8,693.53	288.01	-134.44	395,983.13	762,505.78	32.086624	-103.619196
8,810.00	0.80	130.50	8,787.52	287.28	-133.46	395,982.41	762,506.77	32.086622	-103.619193
8,905.00	0.70	129.40	8,882.51	286.48	-132.50	395,981.61	762,507.72	32.086620	-103.619190
8,999.00	0.60	129.40	8,976.51	285.81	-131.68	395,980.93	762,508.54	32.086618	-103.619187
9,093.00	0.20	96.00	9,070.50	285.48	-131.14	395,980.60	762,509.09	32.086617	-103.619185
9,188.00	0.10	334.40	9,165.50	285.53	-131.01	395,980.66	762,509.22	32.086618	-103.619185
9,282.00	0.50	311.60	9,259.50	285.88	-131.35	395,981.01	762,508.87	32.086619	-103.619186
9,377.00	0.50	221.90	9,354.50	285.85	-131.94	395,980.97	762,508.29	32.086619	-103.619188
9,471.00	1.20	208.50	9,448.49	284.68	-132.68	395,979.80	762,507.54	32.086615	-103.619190
9,566.00	1.80	200.70	9,543.46	282.41	-133.68	395,977.53	762,506.54	32.086609	-103.619194
9,660.00	2.00	202.60	9,637.40	279.51	-134.83	395,974.64	762,505.39	32.086601	-103.619197
9,755.00	1.10	214.60	9,732.37	277.23	-135.99	395,972.36	762,504.23	32.086595	-103.619201
9,850.00	0.80	211.40	9,827.36	275.91	-136.85	395,971.04	762,503.37	32.086591	-103.619204
9,944.00	0.90	189.60	9,921.35	274.62	-137.32	395,969.75	762,502.91	32.086588	-103.619206
10,039.00	1.10	182.80	10,016.33	272.98	-137.49	395,968.11	762,502.74	32.086583	-103.619206
10,133.00	1.10	183.70	10,110.31	271.18	-137.59	395,966.30	762,502.63	32.086578	-103.619206
10,227.00	0.80	196.30	10,204.30	269.65	-137.83	395,964.77	762,502.39	32.086574	-103.619207
10,322.00	0.20	169.80	10,299.30	268.85	-137.99	395,963.97	762,502.24	32.086572	-103.619208
10,416.00	0.30	64.00	10,393.30	268.79	-137.74	395,963.92	762,502.49	32.086572	-103.619207
10,510.00	0.80	84.40	10,487.29	268.96	-136.86	395,964.09	762,503.36	32.086572	-103.619204
10,600.00	1.17	95.10	10,577.28	268.94	-135.32	395,964.07	762,504.90	32.086572	-103.619199
10,700.00	1.29	90.30	10,677.26	268.85	-133.18	395,963.97	762,507.04	32.086572	-103.619192
10,800.00	1.39	95.87	10,777.23	268.72	-130.85	395,963.84	762,509.37	32.086571	-103.619185
10,900.00	1.82	112.48	10,877.19	267.99	-128.17	395,963.11	762,512.05	32.086569	-103.619176
11,000.00	1.67	111.03	10,977.14	266.86	-125.35	395,961.98	762,514.88	32.086566	-103.619167
11,100.00	1.45	99.71	11,077.11	266.12	-122.74	395,961.25	762,517.48	32.086564	-103.619159
11,200.00	0.66	73.02	11,177.09	266.08	-120.94	395,961.20	762,519.28	32.086564	-103.619153
11,300.00	0.70	8.86	11,277.08	266.85	-120.30	395,961.97	762,519.93	32.086566	-103.619151
11,400.00	0.34	6.39	11,377.08	267.75	-120.17	395,962.87	762,520.05	32.086569	-103.619150
11,500.00	0.42	10.36	11,477.08	268.40	-120.07	395,963.53	762,520.15	32.086570	-103.619150



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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
11,600.00	1.42	37.54	11,577.06	269.74	-119.25	395,964.87	762,520.97	32.086574	-103.619147
11,666.00	2.00	45.90	11,643.03	271.19	-117.92	395,966.32	762,522.30	32.086578	-103.619143
11,760.00	1.50	58.30	11,736.99	272.98	-115.70	395,968.11	762,524.52	32.086583	-103.619136
11,855.00	0.70	69.20	11,831.97	273.84	-114.10	395,968.97	762,526.12	32.086585	-103.619131
11,949.00	0.80	106.20	11,925.96	273.86	-112.93	395,968.99	762,527.29	32.086585	-103.619127
12,044.00	1.10	128.20	12,020.95	273.11	-111.58	395,968.24	762,528.64	32.086583	-103.619122
12,139.00	1.10	146.40	12,115.93	271.79	-110.36	395,966.92	762,529.87	32.086579	-103.619119
12,193.00	1.60	154.30	12,169.92	270.68	-109.74	395,965.81	762,530.48	32.086576	-103.619117
12,225.00	3.20	162.30	12,201.89	269.43	-109.28	395,964.55	762,530.94	32.086573	-103.619115
12,272.00	9.30	167.80	12,248.59	264.46	-108.08	395,959.59	762,532.15	32.086559	-103.619111
12,319.00	15.10	169.30	12,294.51	254.72	-106.13	395,949.85	762,534.09	32.086532	-103.619105
12,366.00	19.60	166.10	12,339.36	241.05	-103.10	395,936.17	762,537.12	32.086495	-103.619096
12,413.00	23.70	165.10	12,383.03	224.26	-98.78	395,919.39	762,541.44	32.086449	-103.619082
12,460.00	28.10	167.70	12,425.30	204.31	-93.99	395,899.43	762,546.23	32.086394	-103.619067
12,507.00	32.50	170.00	12,465.87	181.05	-89.44	395,876.17	762,550.79	32.086330	-103.619053
12,554.00	35.90	169.10	12,504.74	155.07	-84.64	395,850.20	762,555.59	32.086258	-103.619038
12,602.00	39.10	168.50	12,542.82	126.41	-78.96	395,821.54	762,561.27	32.086179	-103.619020
12,649.00	42.60	168.60	12,578.36	96.29	-72.85	395,791.41	762,567.37	32.086096	-103.619001
12,696.00	45.50	169.30	12,612.14	64.22	-66.60	395,759.34	762,573.62	32.086008	-103.618982
12,743.00	47.80	169.90	12,644.40	30.60	-60.43	395,725.73	762,579.79	32.085916	-103.618962
12,791.00	52.00	170.50	12,675.31	-5.57	-54.19	395,689.56	762,586.03	32.085816	-103.618943
12,838.00	56.80	171.30	12,702.67	-43.29	-48.16	395,651.83	762,592.07	32.085712	-103.618924
12,863.00	58.80	171.50	12,715.99	-64.21	-44.99	395,630.92	762,595.23	32.085655	-103.618915
12,914.00	62.90	171.10	12,740.82	-108.23	-38.25	395,586.90	762,601.97	32.085534	-103.618894
12,961.00	67.60	172.30	12,760.50	-150.45	-32.10	395,544.67	762,608.12	32.085417	-103.618875
13,009.00	71.10	172.00	12,777.42	-194.94	-25.97	395,500.19	762,614.25	32.085295	-103.618856
13,024.00	72.19	172.13	12,782.15	-209.04	-24.00	395,486.09	762,616.22	32.085256	-103.618850
Cross 330' FWL 13024 MD/12782.15 TVD -209.04 S -24 W N: 395486.0 E: 762616.2									
13,056.00	74.50	172.40	12,791.32	-239.42	-19.88	395,455.71	762,620.35	32.085173	-103.618837
13,104.00	78.40	173.90	12,802.56	-285.74	-14.32	395,409.39	762,625.91	32.085045	-103.618820
13,151.00	81.60	174.90	12,810.72	-331.80	-9.80	395,363.33	762,630.42	32.084919	-103.618807
13,199.00	85.60	176.80	12,816.07	-379.36	-6.35	395,315.77	762,633.87	32.084788	-103.618797
13,243.00	87.70	176.90	12,818.64	-423.22	-3.94	395,271.91	762,636.28	32.084667	-103.618790
13,293.00	89.50	176.60	12,819.87	-473.12	-1.11	395,222.01	762,639.11	32.084530	-103.618782
13,388.00	90.90	176.60	12,819.53	-567.95	4.53	395,127.18	762,644.75	32.084269	-103.618766
13,482.00	91.50	177.20	12,817.57	-661.79	9.61	395,033.34	762,649.83	32.084011	-103.618751
13,576.00	90.80	177.40	12,815.68	-755.67	14.04	394,939.46	762,654.26	32.083753	-103.618739
13,670.00	95.30	180.50	12,810.68	-849.48	15.76	394,845.65	762,655.98	32.083495	-103.618735
13,765.00	96.60	181.30	12,800.83	-943.95	14.28	394,751.17	762,654.50	32.083235	-103.618742
13,860.00	95.20	179.90	12,791.06	-1,038.44	13.29	394,656.69	762,653.51	32.082976	-103.618747
13,954.00	90.30	177.60	12,786.55	-1,132.28	15.34	394,562.85	762,655.56	32.082718	-103.618743
14,048.00	89.10	178.20	12,787.05	-1,226.21	18.79	394,468.92	762,659.01	32.082460	-103.618734
14,142.00	89.60	178.80	12,788.11	-1,320.17	21.25	394,374.96	762,661.47	32.082201	-103.618728
14,237.00	90.90	179.10	12,787.70	-1,415.15	22.99	394,279.98	762,663.21	32.081940	-103.618724
14,331.00	95.80	181.70	12,782.21	-1,508.95	22.34	394,186.18	762,662.56	32.081682	-103.618728
14,426.00	95.00	181.30	12,773.27	-1,603.50	19.86	394,091.63	762,660.08	32.081422	-103.618738
14,467.00	95.00	178.80	12,769.69	-1,644.34	19.83	394,050.79	762,660.05	32.081310	-103.618739
14,520.00	94.30	177.40	12,765.40	-1,697.13	21.58	393,997.99	762,661.80	32.081165	-103.618735
14,615.00	93.20	176.80	12,759.18	-1,791.81	26.37	393,903.32	762,666.60	32.080905	-103.618721
14,709.00	91.70	177.10	12,755.16	-1,885.58	31.37	393,809.54	762,671.59	32.080647	-103.618707
14,804.00	89.40	176.40	12,754.25	-1,980.42	36.76	393,714.71	762,676.98	32.080386	-103.618692
14,898.00	88.80	176.50	12,755.73	-2,074.23	42.58	393,620.90	762,682.80	32.080128	-103.618675
14,992.00	88.00	175.30	12,758.35	-2,167.95	49.29	393,527.18	762,689.52	32.079870	-103.618655
15,018.30	88.17	175.38	12,759.23	-2,194.15	51.43	393,500.98	762,691.65	32.079798	-103.618649
Cross Section Line 15018.3 MD/12759.23 TVD -2194.15 S 51.43 E N: 393500.9 E: 762691.6									



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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
15,087.00	88.60	175.60	12,761.17	-2,262.61	56.83	393,432.52	762,697.05	32.079610	-103.618633
15,181.00	88.50	176.60	12,763.55	-2,356.36	63.22	393,338.77	762,703.44	32.079352	-103.618614
15,275.00	88.10	176.40	12,766.34	-2,450.14	68.95	393,244.99	762,709.18	32.079094	-103.618598
15,370.00	89.70	176.60	12,768.16	-2,544.94	74.75	393,150.18	762,714.97	32.078834	-103.618581
15,464.00	88.00	178.90	12,770.05	-2,638.84	78.44	393,056.29	762,718.66	32.078575	-103.618571
15,559.00	87.10	179.00	12,774.11	-2,733.74	80.18	392,961.39	762,720.40	32.078315	-103.618568
15,653.00	88.00	180.10	12,778.13	-2,827.65	80.92	392,867.48	762,721.14	32.078056	-103.618567
15,748.00	88.90	180.70	12,780.70	-2,922.61	80.25	392,772.52	762,720.48	32.077795	-103.618571
15,842.00	89.90	181.30	12,781.68	-3,016.59	78.61	392,678.54	762,718.84	32.077537	-103.618579
15,937.00	90.60	180.60	12,781.27	-3,111.57	77.04	392,583.56	762,717.26	32.077276	-103.618586
16,031.00	90.90	179.50	12,780.04	-3,205.56	76.96	392,489.56	762,717.18	32.077018	-103.618588
16,125.00	90.20	179.10	12,779.14	-3,299.55	78.11	392,395.58	762,718.33	32.076759	-103.618586
16,219.00	91.50	179.70	12,777.74	-3,393.53	79.09	392,301.59	762,719.31	32.076501	-103.618585
16,316.00	90.40	178.60	12,776.13	-3,490.51	80.53	392,204.62	762,720.75	32.076234	-103.618583
16,411.00	90.90	178.80	12,775.06	-3,585.47	82.68	392,109.65	762,722.91	32.075973	-103.618578
16,505.00	90.90	179.20	12,773.58	-3,679.45	84.32	392,015.68	762,724.55	32.075715	-103.618574
16,600.00	92.40	178.80	12,770.84	-3,774.39	85.98	391,920.74	762,726.20	32.075454	-103.618571
16,694.00	89.00	178.90	12,769.70	-3,868.35	87.87	391,826.78	762,728.09	32.075196	-103.618567
16,788.00	87.80	178.10	12,772.32	-3,962.28	90.33	391,732.85	762,730.55	32.074937	-103.618561
16,883.00	88.70	178.50	12,775.22	-4,057.19	93.14	391,637.93	762,733.37	32.074676	-103.618554
16,978.00	89.50	178.70	12,776.71	-4,152.15	95.46	391,542.97	762,735.69	32.074415	-103.618549
17,072.00	90.30	179.50	12,776.88	-4,246.14	96.94	391,448.99	762,737.16	32.074157	-103.618546
17,166.00	91.70	179.80	12,775.24	-4,340.12	97.52	391,355.01	762,737.74	32.073899	-103.618546
17,261.00	91.50	180.00	12,772.58	-4,435.08	97.68	391,260.04	762,737.90	32.073638	-103.618548
17,355.00	91.20	180.30	12,770.37	-4,529.06	97.43	391,166.07	762,737.66	32.073379	-103.618550
17,449.00	91.10	179.50	12,768.48	-4,623.04	97.60	391,072.09	762,737.82	32.073121	-103.618552
17,543.00	91.00	179.80	12,766.76	-4,717.02	98.17	390,978.11	762,738.40	32.072863	-103.618552
17,638.00	89.30	180.90	12,766.51	-4,812.01	97.59	390,883.12	762,737.81	32.072602	-103.618556
17,732.00	90.30	181.80	12,766.84	-4,905.98	95.38	390,789.14	762,735.60	32.072343	-103.618565
17,826.00	91.40	181.30	12,765.45	-4,999.94	92.84	390,695.19	762,733.06	32.072085	-103.618575
17,920.00	91.30	182.00	12,763.23	-5,093.87	90.13	390,601.26	762,730.35	32.071827	-103.618586
18,014.00	90.90	182.60	12,761.43	-5,187.78	86.36	390,507.35	762,726.58	32.071569	-103.618600
18,109.00	92.20	182.60	12,758.86	-5,282.64	82.05	390,412.48	762,722.27	32.071308	-103.618616
18,203.00	90.10	180.50	12,756.97	-5,376.58	79.51	390,318.55	762,719.73	32.071050	-103.618626
18,298.00	89.50	179.80	12,757.30	-5,471.58	79.26	390,223.55	762,719.48	32.070789	-103.618629
18,392.00	89.80	179.70	12,757.88	-5,565.57	79.67	390,129.55	762,719.89	32.070531	-103.618630
18,486.00	89.50	179.50	12,758.45	-5,659.57	80.33	390,035.56	762,720.55	32.070272	-103.618630
18,581.00	89.40	180.00	12,759.36	-5,754.56	80.74	389,940.56	762,720.96	32.070011	-103.618630
18,675.00	89.70	180.30	12,760.10	-5,848.56	80.50	389,846.57	762,720.72	32.069753	-103.618633
18,769.00	89.40	179.60	12,760.84	-5,942.56	80.58	389,752.57	762,720.80	32.069494	-103.618635
18,864.00	89.70	179.80	12,761.58	-6,037.55	81.07	389,657.57	762,721.30	32.069233	-103.618635
18,958.00	89.70	180.40	12,762.08	-6,131.55	80.91	389,563.58	762,721.13	32.068975	-103.618638
19,053.00	87.40	179.60	12,764.48	-6,226.51	80.91	389,468.61	762,721.13	32.068714	-103.618640
19,147.00	89.30	179.50	12,767.19	-6,320.47	81.65	389,374.66	762,721.87	32.068455	-103.618640
19,242.00	91.50	179.70	12,766.52	-6,415.46	82.31	389,279.67	762,722.53	32.068194	-103.618639
19,336.00	90.50	179.50	12,764.88	-6,509.44	82.97	389,185.69	762,723.19	32.067936	-103.618639
19,431.00	88.90	178.80	12,765.38	-6,604.42	84.38	389,090.70	762,724.60	32.067675	-103.618637
19,525.00	89.50	178.90	12,766.69	-6,698.39	86.26	388,996.73	762,726.49	32.067417	-103.618633
19,620.00	90.90	179.50	12,766.36	-6,793.38	87.59	388,901.74	762,727.81	32.067155	-103.618631
19,714.00	91.30	179.50	12,764.56	-6,887.36	88.41	388,807.77	762,728.63	32.066897	-103.618630
19,808.00	90.00	179.80	12,763.49	-6,981.35	88.98	388,713.78	762,729.21	32.066639	-103.618630
19,902.00	90.80	180.10	12,762.83	-7,075.35	89.07	388,619.78	762,729.29	32.066380	-103.618632
19,996.00	90.80	180.30	12,761.52	-7,169.34	88.74	388,525.79	762,728.96	32.066122	-103.618635
20,095.00	90.70	180.40	12,760.23	-7,268.33	88.13	388,426.80	762,728.36	32.065850	-103.618639
LAST MWD Survey 20095 MD/12760.23 TVD -7268.33 S 88.13 E N: 388426.8 E: 762728.3									



Microsoft
Survey Report - Geographic

KAISER-FRANCIS OIL COMPANY

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Red Hills 601H
Project:	Lea County, NM (NAD 83)	TVD Reference:	3407.1+23 @ 3430.10usft
Site:	Sec 31-T25S-R33E	MD Reference:	3407.1+23 @ 3430.10usft
Well:	Red Hills 601H	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
20,161.00	90.70	180.40	12,759.42	-7,334.32	87.67	388,360.81	762,727.89	32.065669	-103.618642
PTB 20161 MD/12759.42 TVD -7334.32 S 87.67 E N: 388360.8 E: 762727.9									

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
237.00	237.00	-0.09	0.82	1st MWD Survey	
13,024.00	12,782.15	-209.04	-24.00	Cross 330' FWL 13024 MD/12782.15 TVD -209.04 S -24 W N: 395486.0 E: 762	
15,018.30	12,759.23	-2,194.15	51.43	Cross Section Line 15018.3 MD/12759.23 TVD -2194.15 S 51.43 E N: 393500.9	
20,095.00	12,760.23	-7,268.33	88.13	LAST MWD Survey 20095 MD/12760.23 TVD -7268.33 S 88.13 E N: 388426.8	
20,161.00	12,759.42	-7,334.32	87.67	PTB 20161 MD/12759.42 TVD -7334.32 S 87.67 E N: 388360.8 E: 762727.9	

Checked By: _____ Approved By: _____ Date: _____

Well Name: RED HILLS FEDERAL	Well Location: T25S / R33E / SEC 31 / LOT 3 / 32.0858302 / -103.6187419	County or Parish/State: LEA / NM
Well Number: 601H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM015321, NMNM15321	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002546657	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 04/19/2021	Time Sundry Submitted: 03:25
Date Operation Actually Began: 12/18/2020	

Actual Procedure: Completion began 12/18/20 Completion finished 1/5/21 1.MIRU WL. 2.TCP Stage 1: 19,855-19,977. Broke down perms. 3.Stage frac lateral 12,966-19,977 in 43 stages w/172,517 bbls fluid + 20,788,392# sand. 4.Drilled out plugs w/tri-cone bit. Return well to sales.

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: ERICA MILES	Signed on: APR 19, 2021 01:58 PM
Name: KAISER FRANCIS OIL COMPANY	
Title: Geosciences Technician	
Street Address: 6733 S YALE AVE	
City: TULSA	State: OK
Phone: (918) 491-4548	
Email address: ERICAM@KFOC.NET	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

Well Name: RED HILLS FEDERAL	Well Location: T25S / R33E / SEC 31 / LOT 3 / 32.0858302 / -103.6187419	County or Parish/State: LEA / NM
Well Number: 601H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM015321, NMNM15321	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002546657	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

BLM Point of Contact

BLM POC Name: Jonathon W Shepard
BLM POC Phone: 5752345972
Disposition: Accepted
Signature: Jonathon Shepard

BLM POC Title: Petroleum Engineer
BLM POC Email Address: jshepard@blm.gov
Disposition Date: 05/06/2021

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017													
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Red Hills Federal 6. Well Number: 601H										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator Kaiser-Francis Oil Company						9. OGRID 12361												
10. Address of Operator P.O. Box 21468, Tulsa, OK 74121-1468						11. Pool name or Wildcat Wildcat Upper Wolfcamp Oil Pool												
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:	3	31	25S	33E		2195	South	364	West	Lea								
BH:	4	6	26S	33E		138	South	380	West	Lea								
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released		16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)											
1/11/20	2/1/20	2/3/20		1/5/21			3406 GR											
18. Total Measured Depth of Well			19. Plug Back Measured Depth		20. Was Directional Survey Made?			21. Type Electric and Other Logs Run										
20,161MD 12,795TVD			20,007MD 12,760TVD		Yes			GR										
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,966-19,977								Wolfcamp										
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
10-3/4		40.5		938		14-3/4		530 SX		-0-								
7-5/8		29.7		11,559		9-7/8		1,040 SX		-0-								
DV Tool		-		5,226		9-7/8		860 SX		-0-								
5-1/2		23		20,145		6-3/4		1,590 SX		-0-								
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET									
None		-	-	-		None	-		-									
26. Perforation record (interval, size, and number) 12,966-19,977 .41" 1935 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DEPTH INTERVAL</td> <td style="width:50%;">AMOUNT AND KIND MATERIAL USED</td> </tr> <tr> <td>12,966-</td> <td>172,517 bbls fluid +</td> </tr> <tr> <td>19,977</td> <td>20,788,392# sd.</td> </tr> <tr> <td></td> <td></td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	12,966-	172,517 bbls fluid +	19,977	20,788,392# sd.		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
12,966-	172,517 bbls fluid +																	
19,977	20,788,392# sd.																	
28. PRODUCTION																		
Date First Production date		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Prod												
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio											
3/1/21	24 hrs	26/64		464	2171	4372	4678											
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)												
	4100		464	2171	4372	47												
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold								30. Test Witnessed By										
31. List Attachments C-104NW, C-102 As-Drilled w/HSU, C-103 Casing, C-103 Completion, Final Svy, WBD																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:										
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude			Longitude			NAD83												
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																		
Signature Eric Hansen			Name Eric Hansen		Title Petroleum Engineer		Date 5/13/21											
E-mail Address EricH@kfoc.net																		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 4850	T. Morrison	
T. Drinkard	T. Bone Springs 1st 9980	T. Todilto	
T. Abo	T. Avalon 9185	T. Entrada	
T. Wolfcamp	T. 2 Bone Sprg 10540	T. Wingate	
T. Penn	T. 3 Bone Sprg 11745	T. Chinle	
T. Cisco (Bough C)	T. Wolfcamp 12260	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from 12,966 to 19,977
No. 2, from to

No. 3, from to
No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet
No. 2, from to feet
No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
4850			De laware				
9185			Ava Lon				
9980			1st Bone Sprg				
10540			2nd Bone Sprg				
10995			2nd Bone Sprg Lm				
11745			3rd Bone Sprg				
12260			Wol fcamp				

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

ACKNOWLEDGMENTS

Action 39885

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 39885
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 39885

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 39885
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit all drilling, casing, and completion sundries/reports.	9/7/2021