

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 - 0 25 - 45572	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 401H

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		2165	South	400	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		114	South	379	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 2/19/19	²² Ready Date 1/28/21	²³ TD 19,838MD/ 12,208TVD	²⁴ PBD 19,679MD/ 12,208TVD	²⁵ Perforations 12,343-19,672	²⁶ DHC, MC -
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 - 1/2	10 - 3/4	900	660 SXS		
14 - 3/4	7 - 5/8	11,545	800 SXS		
9 - 7/8	5 - 1/2	19,776	1335 SXS		

V. Well Test Data

³¹ Date New Oil 2/2/21	³² Gas Delivery Date 2/2/21	³³ Test Date 2/24/21	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 3725
³⁷ Choke Size 32/64	³⁸ Oil 1074	³⁹ Water 4338	⁴⁰ Gas 2690		⁴¹ Test Method 1
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: Eric Hansen			OIL CONSERVATION DIVISION		
Printed name: Eric Hansen			Approved by: KURT SIMMONS		
Title: Petroleum Engineer			Title: NMOCD, SANTA FE		
E-mail Address: EricH@kfoc.net			Approval Date: 09/07/2021		
Date: 4/12/21		Phone:918-491-4339			

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 30-025-45572	² Pool Code 98158	³ Pool Name Wildcat Upper Wolfcamp Oil Pool
⁴ Property Code 5467	⁵ Property Name RED HILLS	⁶ Well Number 401H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3405.1

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		2165	SOUTH	400	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		114	SOUTH	379	WEST	LEA
¹² Dedicated Acres 238.8	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.

SW 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		S89°33'55"W 2650.63 FT S89°36'15"W 2635.02 FT N/4 CORNER SEC. 31 LAT. = 32.0943196°N LONG. = 103.6113623°W NMSP EAST (FT) N = 398798.70 E = 764913.09 KICK OFF POINT 2615' FSL, 517' FWL LAT. = 32.0869832°N LONG. = 103.6182517°W KOP FIRST TAKE POINT 2288' FSL, 464' FWL LAT. = 32.0860861°N LONG. = 103.6184210°W SEC. 31 RED HILLS 401H ELEV. = 3405.1' LAT. = 32.0857478°N (NAD83) LONG. = 103.6186255°W NMSP EAST (FT) N = 395665.39 E = 762684.50 AS-DRILLED 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 SEC. 6 BOTTOM OF HOLE LAT. = 32.0656060°N LONG. = 103.6186189°W NMSP EAST (FT) N = 388338.14 E = 762735.08 LAST TAKE POINT 279' FSL, 392' FWL LAT. = 32.0660607°N LONG. = 103.6185764°W LTP BOTTOM OF HOLE 379' S/4 CORNER SEC. 6 SCALED		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
17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Eric Hansen 4/12/21 Signature Date Eric Hansen Printed Name erich@kfoc.net E-mail Address			18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> FEBRUARY 16, 2021 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number: 12797 SURV. NO. 5944D	

Intent ☐ As Drilled ☒

API # 30-025-45572		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 401H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	31	25S	33E	3	2615	SOUTH	517	WEST	LEA
Latitude 32.0869832					Longitude 103.6182517				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	2288	SOUTH	464	WEST	LEA
Latitude 32.0860861					Longitude 103.6184210				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	279	SOUTH	392	WEST	LEA
Latitude 32.0660607					Longitude 103.6185764				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.

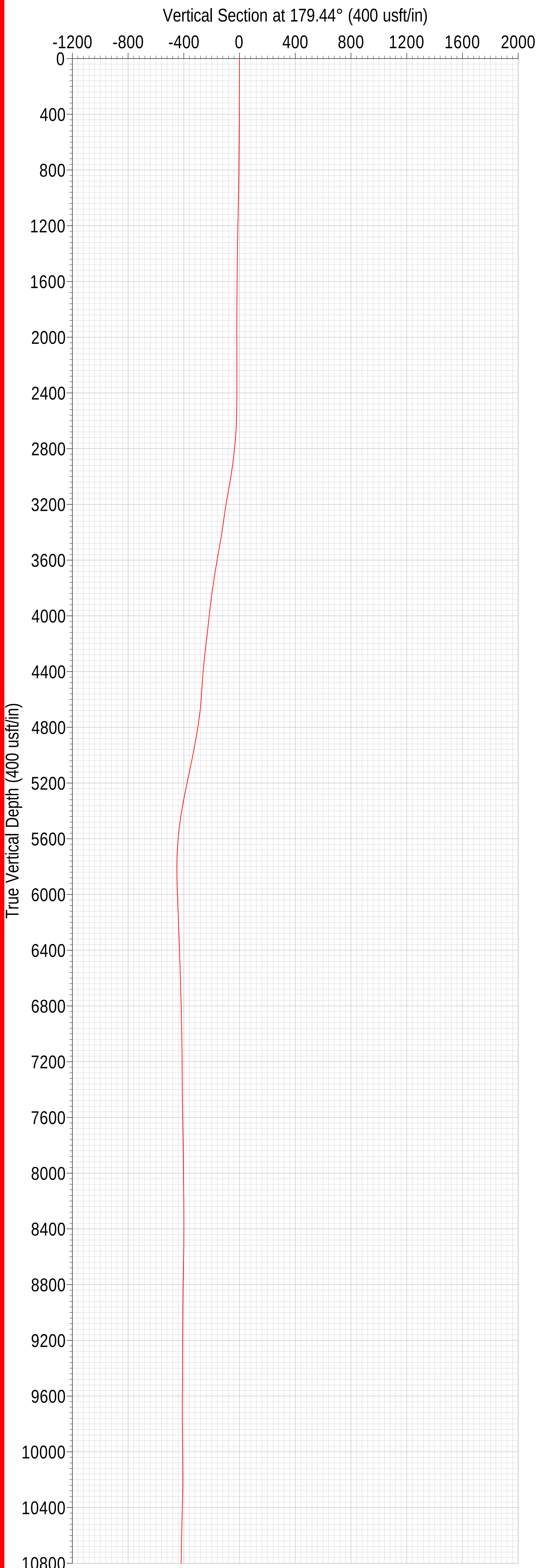
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

WELL DETAILS: Red Hills 401H

DESIGN TARGET DETAILS

GL @ 3405.10					WELL @ 3428.10usft (Cactus 171)					Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
		+N/-S	+E/-W	Northing	Easting	Latitude		Longitude		PBHL v2 - Red Hills 401H	12200.00	-7111.11	19.48	388496.70	721517.47	32° 3' 57.871 N	103° 37' 5.676 W
0.00		0.00		395607.81	721497.99	32° 5' 8.243 N		103° 37' 5.355 W		T1 v2 - Red Hills 401H	12260.00	-1164.13	-38.58	394443.68	721459.41	32° 4' 56.725 N	103° 37' 5.893 W
										T2 v2 - Red Hills 401H	12245.00	-2164.13	-28.82	393443.68	721469.17	32° 4' 46.829 N	103° 37' 5.857 W
SECTION DETAILS																	
										T3 v2 - Red Hills 401H	12230.00	-3164.13	-19.05	392443.68	721478.94	32° 4' 36.932 N	103° 37' 5.820 W
										T4 v2 - Red Hills 401H	12210.00	-4164.13	-9.29	391443.68	721488.70	32° 4' 27.036 N	103° 37' 5.784 W
										T5 v2 - Red Hills 401H	12190.00	-5164.13	0.47	390443.68	721498.46	32° 4' 17.139 N	103° 37' 5.747 W
										T6 v2 - Red Hills 401H	12180.00	-6164.13	10.23	389443.68	721508.22	32° 4' 7.243 N	103° 37' 5.711 W



Kaiser-Francis Oil Company

Company: Kaiser-Francis
Well: Red Hills 401H
County: Lea County, New Mexico (NAD 27)
Rig: Cactus 171
Wellbore: Wellbore #2
Design: Design #2
Created By: BSW
Date: 10:41, May 10 2019

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

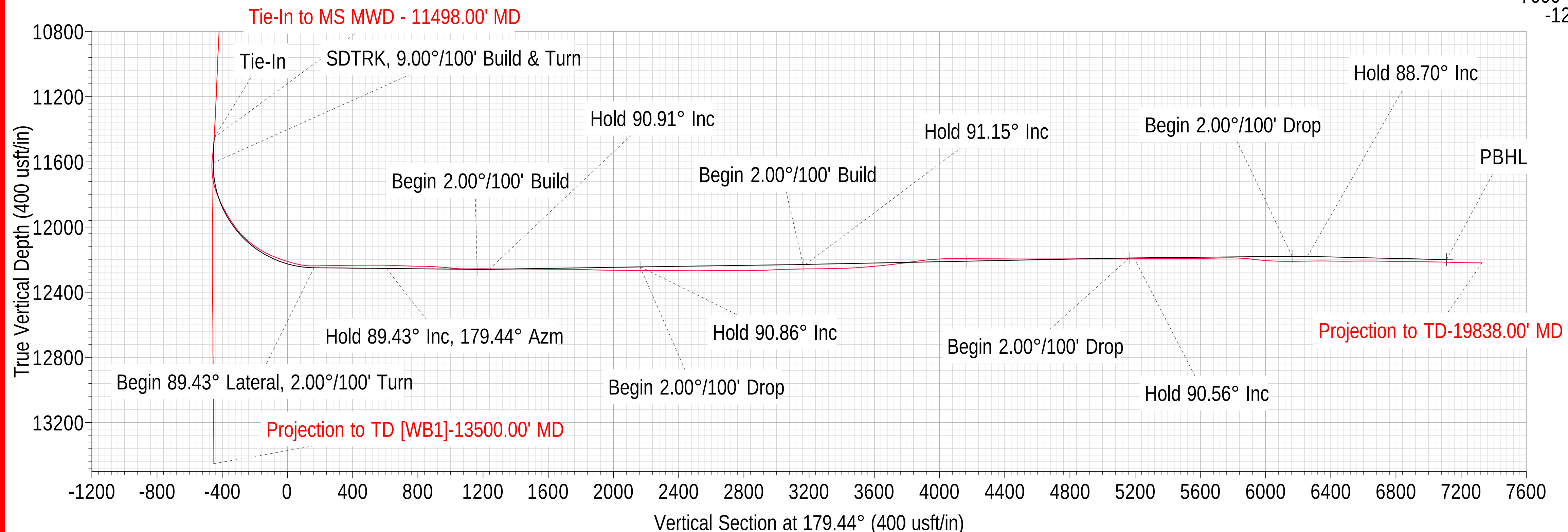
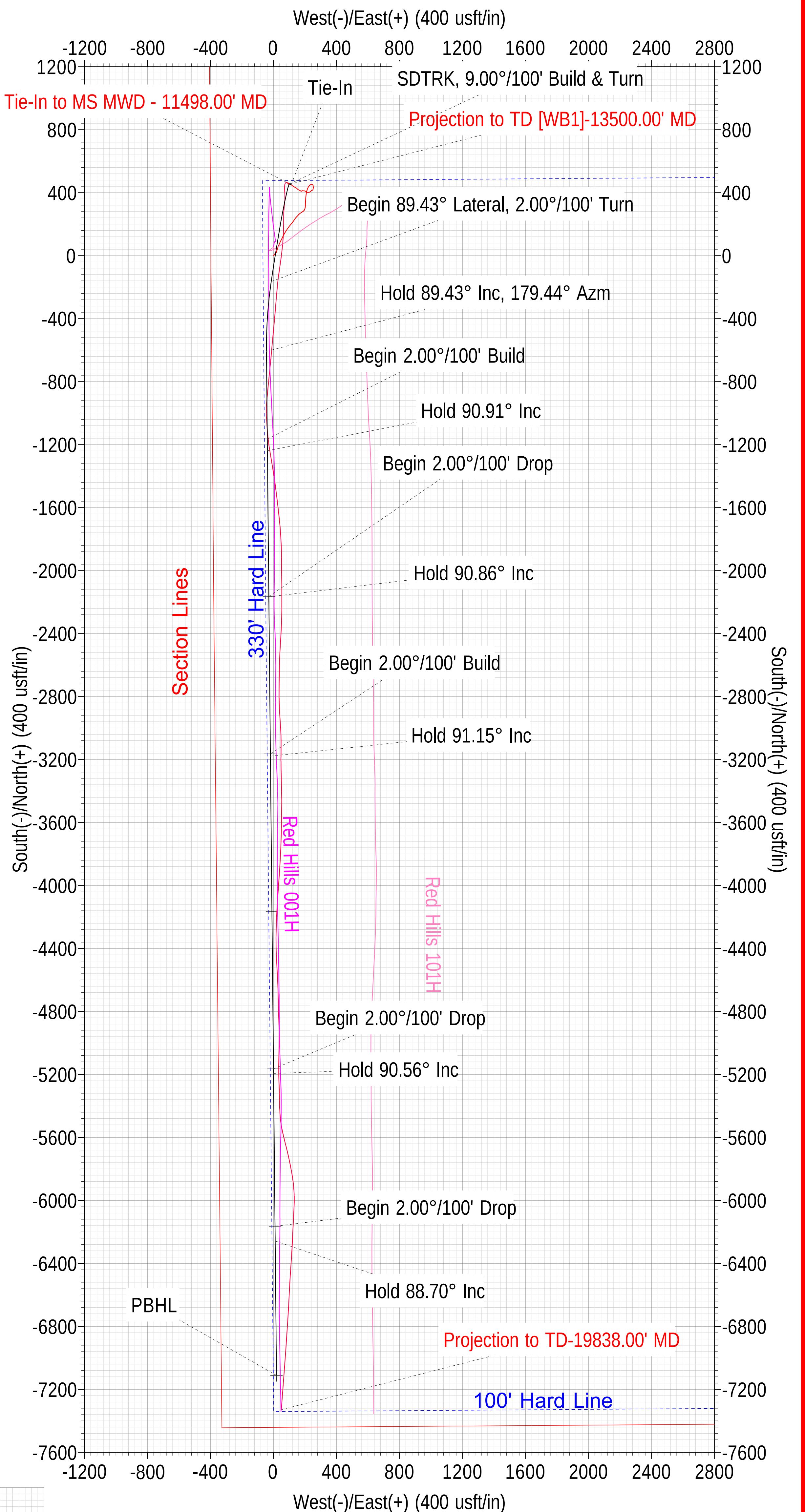
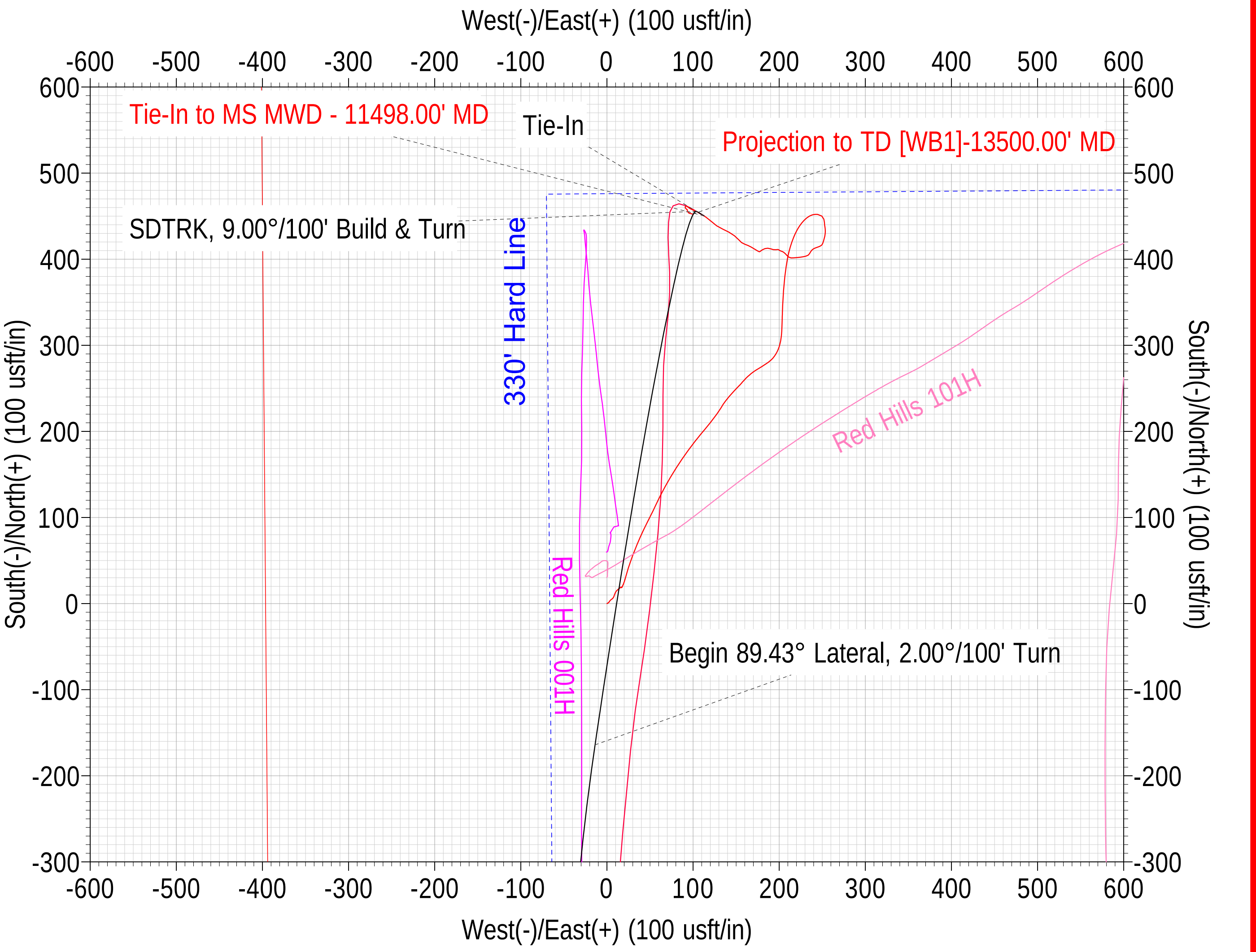
To convert a Magnetic Direction to a Grid Direction, Add 6.287°
To convert a Magnetic Direction to a True Direction, Add 6.667° East
To convert a True Direction to a Grid Direction, Subtract 0.380°

T G M

Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.29°

Magnetic Field
Strength: 47765.3nT
Dip Angle: 59.70°
Date: 4/10/2019
Model: HDGM2019

SURVEY PROGRAM			
Depth From	Depth To	Survey/Plan	Tool
146.00	11498.00	MS MWD (Wellbore #1)	MWD
11498.00	19604.28	Design #2 (Wellbore #2)	MWD+HRGM



Kaiser-Francis Oil Company

Kaiser-Francis

Lea County, New Mexico (NAD 27)

Red Hills

Red Hills 401H

Wellbore #1

Design: Surveys

Standard Survey Report

10 May, 2019



Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	Red Hills 401H			
Well Position	+N/-S	0.00 usft	Northing:	395,607.81 usft
	+E/-W	0.00 usft	Easting:	721,497.99 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft
Grid Convergence:		0.380 °	Ground Level:	3,405.10 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	3/6/2019	6.866	59.847	47,706.08

Design	Surveys				
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	179.44	

Survey Program	Date	5/10/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.00	13,500.00	MS MWD (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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
146.00	0.50	64.20	146.00	0.28	0.57	-0.27	0.34	0.34	0.00	
246.00	0.50	49.10	245.99	0.75	1.30	-0.74	0.13	0.00	-15.10	
339.00	0.40	59.00	338.99	1.19	1.88	-1.17	0.14	-0.11	10.65	
433.00	0.40	42.80	432.99	1.60	2.39	-1.57	0.12	0.00	-17.23	
527.00	0.80	28.90	526.98	2.41	2.93	-2.38	0.45	0.43	-14.79	
619.00	0.80	45.00	618.98	3.43	3.69	-3.39	0.24	0.00	17.50	
713.00	0.90	44.90	712.96	4.41	4.68	-4.37	0.11	0.11	-0.11	
807.00	0.80	64.40	806.95	5.22	5.79	-5.16	0.32	-0.11	20.74	
851.00	0.70	47.30	850.95	5.54	6.26	-5.47	0.55	-0.23	-38.86	
977.00	1.20	32.50	976.93	7.17	7.54	-7.10	0.44	0.40	-11.75	
1,070.00	1.20	18.70	1,069.91	8.91	8.37	-8.83	0.31	0.00	-14.84	
1,164.00	1.40	21.00	1,163.89	10.92	9.10	-10.83	0.22	0.21	2.45	
1,258.00	1.20	25.90	1,257.86	12.88	9.94	-12.78	0.24	-0.21	5.21	
1,351.00	1.00	37.90	1,350.85	14.39	10.86	-14.29	0.33	-0.22	12.90	

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,445.00	1.10	48.60	1,444.83	15.64	12.05	-15.52	0.23	0.11	11.38
1,540.00	0.90	48.40	1,539.82	16.73	13.29	-16.60	0.21	-0.21	-0.21
1,635.00	0.90	55.20	1,634.81	17.66	14.46	-17.51	0.11	0.00	7.16
1,730.00	0.70	48.50	1,729.80	18.47	15.51	-18.31	0.23	-0.21	-7.05
1,824.00	0.40	49.40	1,823.79	19.06	16.18	-18.90	0.32	-0.32	0.96
1,920.00	0.10	37.00	1,919.79	19.35	16.49	-19.18	0.32	-0.31	-12.92
2,014.00	0.10	251.00	2,013.79	19.38	16.46	-19.22	0.20	0.00	-155.32
2,108.00	0.10	156.80	2,107.79	19.28	16.42	-19.12	0.16	0.00	-100.21
2,202.00	0.60	170.60	2,201.79	18.72	16.53	-18.56	0.54	0.53	14.68
2,296.00	0.50	56.10	2,295.79	18.46	16.95	-18.30	0.99	-0.11	-121.81
2,390.00	0.50	35.40	2,389.78	19.03	17.53	-18.85	0.19	0.00	-22.02
2,485.00	0.50	19.10	2,484.78	19.76	17.90	-19.58	0.15	0.00	-17.16
2,580.00	1.80	25.70	2,579.76	21.49	18.69	-21.31	1.37	1.37	6.95
2,673.00	3.60	18.30	2,672.65	25.58	20.24	-25.38	1.97	1.94	-7.96
2,767.00	5.50	15.40	2,766.35	32.73	22.36	-32.51	2.04	2.02	-3.09
2,862.00	7.10	17.90	2,860.77	42.70	25.37	-42.45	1.71	1.68	2.63
2,956.00	9.00	20.40	2,953.84	55.12	29.72	-54.83	2.05	2.02	2.66
3,051.00	10.80	22.70	3,047.43	70.30	35.75	-69.95	1.94	1.89	2.42
3,145.00	11.20	25.70	3,139.70	86.65	43.11	-86.23	0.74	0.43	3.19
3,239.00	9.80	27.10	3,232.12	102.00	50.71	-101.50	1.51	-1.49	1.49
3,334.00	8.60	24.90	3,325.90	115.64	57.38	-115.07	1.32	-1.26	-2.32
3,428.00	10.70	27.40	3,418.57	129.76	64.36	-129.13	2.28	2.23	2.66
3,523.00	11.80	30.70	3,511.74	145.95	73.38	-145.22	1.34	1.16	3.47
3,618.00	11.70	33.50	3,604.75	162.33	83.65	-161.51	0.61	-0.11	2.95
3,712.00	10.80	35.30	3,696.94	177.47	94.00	-176.54	1.03	-0.96	1.91
3,806.00	11.20	39.70	3,789.22	191.68	104.92	-190.65	0.99	0.43	4.68
3,901.00	9.40	39.10	3,882.68	204.80	115.71	-203.66	1.90	-1.89	-0.63
3,995.00	8.00	37.80	3,975.60	215.93	124.56	-214.70	1.50	-1.49	-1.38
4,090.00	7.40	31.30	4,069.74	226.38	131.79	-225.08	1.11	-0.63	-6.84
4,184.00	8.30	37.30	4,162.86	236.95	139.05	-235.58	1.29	0.96	6.38
4,278.00	9.50	44.50	4,255.73	247.88	148.60	-246.41	1.74	1.28	7.66
4,373.00	7.40	41.10	4,349.70	258.08	158.11	-256.52	2.27	-2.21	-3.58
4,468.00	6.60	50.00	4,443.99	266.20	166.32	-264.56	1.42	-0.84	9.37
4,564.00	7.60	59.60	4,539.26	272.96	176.02	-271.23	1.61	1.04	10.00
4,658.00	8.30	55.30	4,632.35	279.97	186.96	-278.13	0.98	0.74	-4.57
4,753.00	8.90	30.70	4,726.32	290.19	196.35	-288.26	3.89	0.63	-25.89
4,847.00	9.70	10.80	4,819.10	304.23	201.55	-302.24	3.51	0.85	-21.17
4,941.00	10.10	1.40	4,911.71	320.25	203.24	-318.25	1.77	0.43	-10.00
5,036.00	11.10	2.00	5,005.09	337.72	203.76	-335.71	1.06	1.05	0.63
5,130.00	12.10	3.40	5,097.17	356.59	204.66	-354.58	1.11	1.06	1.49
5,225.00	12.00	6.00	5,190.07	376.36	206.28	-374.32	0.58	-0.11	2.74
5,320.00	11.50	8.90	5,283.08	395.53	208.78	-393.47	0.81	-0.53	3.05
5,414.00	10.40	16.10	5,375.38	412.94	212.58	-410.85	1.87	-1.17	7.66
5,509.00	8.50	23.70	5,469.09	427.61	217.78	-425.46	2.39	-2.00	8.00

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,603.00	7.00	34.30	5,562.23	438.71	223.80	-436.50	2.20	-1.60	11.28	
5,698.00	5.80	47.70	5,656.64	446.72	230.62	-444.44	2.01	-1.26	14.11	
5,792.00	4.70	70.50	5,750.26	451.20	237.76	-448.86	2.49	-1.17	24.26	
5,887.00	3.80	96.50	5,845.00	452.15	244.56	-449.73	2.21	-0.95	27.37	
5,981.00	3.10	131.60	5,938.84	450.11	249.55	-447.65	2.32	-0.74	37.34	
6,075.00	2.40	164.30	6,032.74	446.52	251.99	-444.04	1.79	-0.74	34.79	
6,169.00	2.10	178.40	6,126.67	442.91	252.57	-440.42	0.67	-0.32	15.00	
6,263.00	2.10	172.20	6,220.60	439.48	252.85	-436.99	0.24	0.00	-6.60	
6,358.00	2.00	174.40	6,315.54	436.10	253.25	-433.61	0.13	-0.11	2.32	
6,453.00	2.00	173.10	6,410.48	432.81	253.61	-430.31	0.05	0.00	-1.37	
6,547.00	1.70	189.20	6,504.44	429.80	253.58	-427.31	0.64	-0.32	17.13	
6,642.00	1.70	191.90	6,599.39	427.03	253.07	-424.54	0.08	0.00	2.84	
6,736.00	1.80	195.00	6,693.35	424.24	252.40	-421.76	0.15	0.11	3.30	
6,831.00	1.60	195.80	6,788.31	421.53	251.65	-419.05	0.21	-0.21	0.84	
6,926.00	1.70	196.70	6,883.27	418.90	250.88	-416.43	0.11	0.11	0.95	
7,020.00	1.20	221.20	6,977.24	416.82	249.84	-414.36	0.84	-0.53	26.06	
7,115.00	1.10	243.50	7,072.22	415.67	248.36	-413.22	0.48	-0.11	23.47	
7,210.00	1.20	245.70	7,167.20	414.85	246.64	-412.42	0.12	0.11	2.32	
7,304.00	1.30	246.50	7,261.18	414.02	244.77	-411.61	0.11	0.11	0.85	
7,398.00	1.40	252.00	7,355.15	413.24	242.70	-410.85	0.17	0.11	5.85	
7,492.00	1.30	245.60	7,449.13	412.45	240.63	-410.08	0.19	-0.11	-6.81	
7,587.00	1.10	228.90	7,544.11	411.40	238.96	-409.05	0.42	-0.21	-17.58	
7,681.00	1.30	220.00	7,638.09	409.99	237.60	-407.65	0.29	0.21	-9.47	
7,775.00	1.30	214.40	7,732.06	408.30	236.31	-405.97	0.14	0.00	-5.96	
7,870.00	1.30	203.80	7,827.04	406.42	235.27	-404.10	0.25	0.00	-11.16	
7,964.00	1.50	235.70	7,921.01	404.75	233.82	-402.45	0.84	0.21	33.94	
8,058.00	2.10	257.50	8,014.97	403.69	231.12	-401.41	0.96	0.64	23.19	
8,153.00	2.00	255.70	8,109.90	402.90	227.82	-400.65	0.13	-0.11	-1.89	
8,247.00	2.40	263.70	8,203.84	402.28	224.27	-400.07	0.54	0.43	8.51	
8,342.00	2.20	267.50	8,298.76	401.98	220.47	-399.81	0.26	-0.21	4.00	
8,437.00	1.90	262.00	8,393.70	401.68	217.09	-399.54	0.38	-0.32	-5.79	
8,532.00	2.00	273.90	8,488.64	401.58	213.88	-399.47	0.44	0.11	12.53	
8,627.00	1.80	307.40	8,583.59	402.59	211.04	-400.51	1.17	-0.21	35.26	
8,723.00	1.70	319.30	8,679.55	404.59	208.91	-402.53	0.39	-0.10	12.40	
8,817.00	1.50	313.80	8,773.51	406.50	207.12	-404.45	0.27	-0.21	-5.85	
8,912.00	1.20	308.22	8,868.49	407.97	205.44	-405.95	0.34	-0.32	-5.87	
9,006.00	0.90	289.90	8,962.47	408.83	203.97	-406.82	0.48	-0.32	-19.49	
9,101.00	1.00	289.40	9,057.46	409.36	202.49	-407.37	0.11	0.11	-0.53	
9,195.00	0.90	298.40	9,151.44	409.99	201.06	-408.00	0.19	-0.11	9.57	
9,290.00	0.80	308.50	9,246.43	410.76	199.89	-408.78	0.19	-0.11	10.63	
9,383.00	0.90	276.90	9,339.42	411.25	198.65	-409.29	0.51	0.11	-33.98	
9,478.00	1.80	259.10	9,434.40	411.05	196.45	-409.12	1.03	0.95	-18.74	
9,573.00	1.90	284.90	9,529.35	411.18	193.46	-409.27	0.88	0.11	27.16	

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,667.00	2.10	287.20	9,623.29	412.09	190.31	-410.21	0.23	0.21	2.45
9,762.00	2.20	273.20	9,718.23	412.70	186.83	-410.86	0.56	0.11	-14.74
9,857.00	1.70	249.20	9,813.17	412.31	183.69	-410.49	1.00	-0.53	-25.26
9,951.00	1.50	242.70	9,907.14	411.25	181.29	-409.45	0.29	-0.21	-6.91
10,045.00	1.00	241.50	10,001.11	410.29	179.48	-408.52	0.53	-0.53	-1.28
10,139.00	1.00	212.20	10,095.10	409.20	178.32	-407.44	0.54	0.00	-31.17
10,234.00	1.00	278.50	10,190.09	408.63	177.06	-406.88	1.15	0.00	69.79
10,327.00	1.70	304.70	10,283.06	409.53	175.12	-407.80	0.99	0.75	28.17
10,422.00	3.10	299.80	10,377.98	411.61	171.73	-409.91	1.49	1.47	-5.16
10,516.00	2.80	302.30	10,471.85	414.10	167.59	-412.44	0.35	-0.32	2.66
10,611.00	2.20	290.90	10,566.76	415.99	163.92	-414.37	0.82	-0.63	-12.00
10,705.00	2.80	290.60	10,660.67	417.44	160.09	-415.86	0.64	0.64	-0.32
10,799.00	2.30	304.40	10,754.58	419.32	156.38	-417.77	0.84	-0.53	14.68
10,893.00	3.40	322.00	10,848.46	422.58	153.11	-421.06	1.48	1.17	18.72
10,988.00	5.00	306.90	10,943.21	427.28	148.06	-425.82	2.03	1.68	-15.89
11,082.00	4.40	299.10	11,036.89	431.50	141.64	-430.09	0.93	-0.64	-8.30
11,176.00	5.20	293.80	11,130.56	434.97	134.59	-433.63	0.97	0.85	-5.64
11,271.00	4.60	304.20	11,225.22	438.85	127.50	-437.58	1.13	-0.63	10.95
11,366.00	4.30	314.30	11,319.93	443.48	121.80	-442.27	0.88	-0.32	10.63
11,460.00	5.30	304.40	11,413.60	448.39	115.70	-447.24	1.38	1.06	-10.53
11,498.00	5.20	303.10	11,451.44	450.32	112.80	-449.20	0.41	-0.26	-3.42
11,674.00	2.10	293.60	11,627.07	455.97	103.17	-454.94	1.79	-1.76	-5.40
11,769.00	1.90	289.30	11,722.01	457.19	100.08	-456.19	0.26	-0.21	-4.53
11,864.00	1.40	296.60	11,816.97	458.23	97.56	-457.25	0.57	-0.53	7.68
11,958.00	1.50	304.50	11,910.94	459.44	95.52	-458.48	0.24	0.11	8.40
12,053.00	1.00	317.70	12,005.92	460.76	93.94	-459.82	0.60	-0.53	13.89
12,147.00	0.70	289.80	12,099.91	461.56	92.85	-460.63	0.53	-0.32	-29.68
12,241.00	0.50	252.70	12,193.90	461.63	91.91	-460.71	0.45	-0.21	-39.47
12,336.00	0.40	215.80	12,288.90	461.24	91.32	-460.32	0.32	-0.11	-38.84
12,430.00	0.80	191.70	12,382.89	460.33	91.00	-459.42	0.49	0.43	-25.64
12,525.00	0.90	130.70	12,477.88	459.19	91.43	-458.28	0.91	0.11	-64.21
12,619.00	0.90	134.30	12,571.87	458.20	92.52	-457.27	0.06	0.00	3.83
12,714.00	0.00	123.70	12,666.87	457.68	93.05	-456.74	0.95	-0.95	0.00
12,808.00	0.20	27.10	12,760.87	457.82	93.13	-456.89	0.21	0.21	0.00
12,902.00	1.80	168.80	12,854.85	456.52	93.49	-455.58	2.09	1.70	150.74
12,996.00	1.20	140.90	12,948.82	454.31	94.40	-453.36	0.99	-0.64	-29.68
13,091.00	0.90	113.40	13,043.81	453.24	95.71	-452.28	0.61	-0.32	-28.95
13,185.00	0.50	66.20	13,137.80	453.11	96.76	-452.14	0.71	-0.43	-50.21
13,279.00	0.70	116.20	13,231.80	453.02	97.65	-452.05	0.57	0.21	53.19
13,374.00	0.50	106.00	13,326.79	452.65	98.57	-451.67	0.24	-0.21	-10.74
13,441.00	0.40	103.30	13,393.79	452.52	99.08	-451.53	0.15	-0.15	-4.03
13,500.00	0.40	103.30	13,452.79	452.42	99.48	-451.43	0.00	0.00	0.00
Projection to TD [WB1]-13500.00' MD									

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,500.00	13,452.79	452.42	99.48	Projection to TD [WB1]-13500.00' MD

Kaiser-Francis Oil Company

Kaiser-Francis

Lea County, New Mexico (NAD 27)

Red Hills

Red Hills 401H

Wellbore #2

Design: Surveys

Standard Survey Report

10 May, 2019



Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	Red Hills 401H				
Well Position	+N/-S	0.00 usft	Northing:	395,607.81 usft	Latitude: 32° 5' 8.243 N
	+E/-W	0.00 usft	Easting:	721,497.99 usft	Longitude: 103° 37' 5.355 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,405.10 usft
Grid Convergence:		0.380 °			

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2019	4/10/2019	6.667	59.700	47,765.30

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	11,498.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		179.44

Survey Program	Date	5/10/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.00	11,498.00	MS MWD (Wellbore #1)	MWD	OWSG MWD - Standard	
11,587.00	19,838.00	MS MWD (Wellbore #2)	MWD+HRGM	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
146.00	0.50	64.20	146.00	0.28	0.57	-0.27	0.34	0.34	0.00	
246.00	0.50	49.10	245.99	0.75	1.30	-0.74	0.13	0.00	-15.10	
339.00	0.40	59.00	338.99	1.19	1.88	-1.17	0.14	-0.11	10.65	
433.00	0.40	42.80	432.99	1.60	2.39	-1.57	0.12	0.00	-17.23	
527.00	0.80	28.90	526.98	2.41	2.93	-2.38	0.45	0.43	-14.79	
619.00	0.80	45.00	618.98	3.43	3.69	-3.39	0.24	0.00	17.50	
713.00	0.90	44.90	712.96	4.41	4.68	-4.37	0.11	0.11	-0.11	
807.00	0.80	64.40	806.95	5.22	5.79	-5.16	0.32	-0.11	20.74	
851.00	0.70	47.30	850.95	5.54	6.26	-5.47	0.55	-0.23	-38.86	
977.00	1.20	32.50	976.93	7.17	7.54	-7.10	0.44	0.40	-11.75	
1,070.00	1.20	18.70	1,069.91	8.91	8.37	-8.83	0.31	0.00	-14.84	
1,164.00	1.40	21.00	1,163.89	10.92	9.10	-10.83	0.22	0.21	2.45	
1,258.00	1.20	25.90	1,257.86	12.88	9.94	-12.78	0.24	-0.21	5.21	
1,351.00	1.00	37.90	1,350.85	14.39	10.86	-14.29	0.33	-0.22	12.90	

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,445.00	1.10	48.60	1,444.83	15.64	12.05	-15.52	0.23	0.11	11.38
1,540.00	0.90	48.40	1,539.82	16.73	13.29	-16.60	0.21	-0.21	-0.21
1,635.00	0.90	55.20	1,634.81	17.66	14.46	-17.51	0.11	0.00	7.16
1,730.00	0.70	48.50	1,729.80	18.47	15.51	-18.31	0.23	-0.21	-7.05
1,824.00	0.40	49.40	1,823.79	19.06	16.18	-18.90	0.32	-0.32	0.96
1,920.00	0.10	37.00	1,919.79	19.35	16.49	-19.18	0.32	-0.31	-12.92
2,014.00	0.10	251.00	2,013.79	19.38	16.46	-19.22	0.20	0.00	-155.32
2,108.00	0.10	156.80	2,107.79	19.28	16.42	-19.12	0.16	0.00	-100.21
2,202.00	0.60	170.60	2,201.79	18.72	16.53	-18.56	0.54	0.53	14.68
2,296.00	0.50	56.10	2,295.79	18.46	16.95	-18.30	0.99	-0.11	-121.81
2,390.00	0.50	35.40	2,389.78	19.03	17.53	-18.85	0.19	0.00	-22.02
2,485.00	0.50	19.10	2,484.78	19.76	17.90	-19.58	0.15	0.00	-17.16
2,580.00	1.80	25.70	2,579.76	21.49	18.69	-21.31	1.37	1.37	6.95
2,673.00	3.60	18.30	2,672.65	25.58	20.24	-25.38	1.97	1.94	-7.96
2,767.00	5.50	15.40	2,766.35	32.73	22.36	-32.51	2.04	2.02	-3.09
2,862.00	7.10	17.90	2,860.77	42.70	25.37	-42.45	1.71	1.68	2.63
2,956.00	9.00	20.40	2,953.84	55.12	29.72	-54.83	2.05	2.02	2.66
3,051.00	10.80	22.70	3,047.43	70.30	35.75	-69.95	1.94	1.89	2.42
3,145.00	11.20	25.70	3,139.70	86.65	43.11	-86.23	0.74	0.43	3.19
3,239.00	9.80	27.10	3,232.12	102.00	50.71	-101.50	1.51	-1.49	1.49
3,334.00	8.60	24.90	3,325.90	115.64	57.38	-115.07	1.32	-1.26	-2.32
3,428.00	10.70	27.40	3,418.57	129.76	64.36	-129.13	2.28	2.23	2.66
3,523.00	11.80	30.70	3,511.74	145.95	73.38	-145.22	1.34	1.16	3.47
3,618.00	11.70	33.50	3,604.75	162.33	83.65	-161.51	0.61	-0.11	2.95
3,712.00	10.80	35.30	3,696.94	177.47	94.00	-176.54	1.03	-0.96	1.91
3,806.00	11.20	39.70	3,789.22	191.68	104.92	-190.65	0.99	0.43	4.68
3,901.00	9.40	39.10	3,882.68	204.80	115.71	-203.66	1.90	-1.89	-0.63
3,995.00	8.00	37.80	3,975.60	215.93	124.56	-214.70	1.50	-1.49	-1.38
4,090.00	7.40	31.30	4,069.74	226.38	131.79	-225.08	1.11	-0.63	-6.84
4,184.00	8.30	37.30	4,162.86	236.95	139.05	-235.58	1.29	0.96	6.38
4,278.00	9.50	44.50	4,255.73	247.88	148.60	-246.41	1.74	1.28	7.66
4,373.00	7.40	41.10	4,349.70	258.08	158.11	-256.52	2.27	-2.21	-3.58
4,468.00	6.60	50.00	4,443.99	266.20	166.32	-264.56	1.42	-0.84	9.37
4,564.00	7.60	59.60	4,539.26	272.96	176.02	-271.23	1.61	1.04	10.00
4,658.00	8.30	55.30	4,632.35	279.97	186.96	-278.13	0.98	0.74	-4.57
4,753.00	8.90	30.70	4,726.32	290.19	196.35	-288.26	3.89	0.63	-25.89
4,847.00	9.70	10.80	4,819.10	304.23	201.55	-302.24	3.51	0.85	-21.17
4,941.00	10.10	1.40	4,911.71	320.25	203.24	-318.25	1.77	0.43	-10.00
5,036.00	11.10	2.00	5,005.09	337.72	203.76	-335.71	1.06	1.05	0.63
5,130.00	12.10	3.40	5,097.17	356.59	204.66	-354.58	1.11	1.06	1.49
5,225.00	12.00	6.00	5,190.07	376.36	206.28	-374.32	0.58	-0.11	2.74
5,320.00	11.50	8.90	5,283.08	395.53	208.78	-393.47	0.81	-0.53	3.05
5,414.00	10.40	16.10	5,375.38	412.94	212.58	-410.85	1.87	-1.17	7.66

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,509.00	8.50	23.70	5,469.09	427.61	217.78	-425.46	2.39	-2.00	8.00	
5,603.00	7.00	34.30	5,562.23	438.71	223.80	-436.50	2.20	-1.60	11.28	
5,698.00	5.80	47.70	5,656.64	446.72	230.62	-444.44	2.01	-1.26	14.11	
5,792.00	4.70	70.50	5,750.26	451.20	237.76	-448.86	2.49	-1.17	24.26	
5,887.00	3.80	96.50	5,845.00	452.15	244.56	-449.73	2.21	-0.95	27.37	
5,981.00	3.10	131.60	5,938.84	450.11	249.55	-447.65	2.32	-0.74	37.34	
6,075.00	2.40	164.30	6,032.74	446.52	251.99	-444.04	1.79	-0.74	34.79	
6,169.00	2.10	178.40	6,126.67	442.91	252.57	-440.42	0.67	-0.32	15.00	
6,263.00	2.10	172.20	6,220.60	439.48	252.85	-436.99	0.24	0.00	-6.60	
6,358.00	2.00	174.40	6,315.54	436.10	253.25	-433.61	0.13	-0.11	2.32	
6,453.00	2.00	173.10	6,410.48	432.81	253.61	-430.31	0.05	0.00	-1.37	
6,547.00	1.70	189.20	6,504.44	429.80	253.58	-427.31	0.64	-0.32	17.13	
6,642.00	1.70	191.90	6,599.39	427.03	253.07	-424.54	0.08	0.00	2.84	
6,736.00	1.80	195.00	6,693.35	424.24	252.40	-421.76	0.15	0.11	3.30	
6,831.00	1.60	195.80	6,788.31	421.53	251.65	-419.05	0.21	-0.21	0.84	
6,926.00	1.70	196.70	6,883.27	418.90	250.88	-416.43	0.11	0.11	0.95	
7,020.00	1.20	221.20	6,977.24	416.82	249.84	-414.36	0.84	-0.53	26.06	
7,115.00	1.10	243.50	7,072.22	415.67	248.36	-413.22	0.48	-0.11	23.47	
7,210.00	1.20	245.70	7,167.20	414.85	246.64	-412.42	0.12	0.11	2.32	
7,304.00	1.30	246.50	7,261.18	414.02	244.77	-411.61	0.11	0.11	0.85	
7,398.00	1.40	252.00	7,355.15	413.24	242.70	-410.85	0.17	0.11	5.85	
7,492.00	1.30	245.60	7,449.13	412.45	240.63	-410.08	0.19	-0.11	-6.81	
7,587.00	1.10	228.90	7,544.11	411.40	238.96	-409.05	0.42	-0.21	-17.58	
7,681.00	1.30	220.00	7,638.09	409.99	237.60	-407.65	0.29	0.21	-9.47	
7,775.00	1.30	214.40	7,732.06	408.30	236.31	-405.97	0.14	0.00	-5.96	
7,870.00	1.30	203.80	7,827.04	406.42	235.27	-404.10	0.25	0.00	-11.16	
7,964.00	1.50	235.70	7,921.01	404.75	233.82	-402.45	0.84	0.21	33.94	
8,058.00	2.10	257.50	8,014.97	403.69	231.12	-401.41	0.96	0.64	23.19	
8,153.00	2.00	255.70	8,109.90	402.90	227.82	-400.65	0.13	-0.11	-1.89	
8,247.00	2.40	263.70	8,203.84	402.28	224.27	-400.07	0.54	0.43	8.51	
8,342.00	2.20	267.50	8,298.76	401.98	220.47	-399.81	0.26	-0.21	4.00	
8,437.00	1.90	262.00	8,393.70	401.68	217.09	-399.54	0.38	-0.32	-5.79	
8,532.00	2.00	273.90	8,488.64	401.58	213.88	-399.47	0.44	0.11	12.53	
8,627.00	1.80	307.40	8,583.59	402.59	211.04	-400.51	1.17	-0.21	35.26	
8,723.00	1.70	319.30	8,679.55	404.59	208.91	-402.53	0.39	-0.10	12.40	
8,817.00	1.50	313.80	8,773.51	406.50	207.12	-404.45	0.27	-0.21	-5.85	
8,912.00	1.20	308.22	8,868.49	407.97	205.44	-405.95	0.34	-0.32	-5.87	
9,006.00	0.90	289.90	8,962.47	408.83	203.97	-406.82	0.48	-0.32	-19.49	
9,101.00	1.00	289.40	9,057.46	409.36	202.49	-407.37	0.11	0.11	-0.53	
9,195.00	0.90	298.40	9,151.44	409.99	201.06	-408.00	0.19	-0.11	9.57	
9,290.00	0.80	308.50	9,246.43	410.76	199.89	-408.78	0.19	-0.11	10.63	
9,383.00	0.90	276.90	9,339.42	411.25	198.65	-409.29	0.51	0.11	-33.98	
9,478.00	1.80	259.10	9,434.40	411.05	196.45	-409.12	1.03	0.95	-18.74	

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,573.00	1.90	284.90	9,529.35	411.18	193.46	-409.27	0.88	0.11	27.16
9,667.00	2.10	287.20	9,623.29	412.09	190.31	-410.21	0.23	0.21	2.45
9,762.00	2.20	273.20	9,718.23	412.70	186.83	-410.86	0.56	0.11	-14.74
9,857.00	1.70	249.20	9,813.17	412.31	183.69	-410.49	1.00	-0.53	-25.26
9,951.00	1.50	242.70	9,907.14	411.25	181.29	-409.45	0.29	-0.21	-6.91
10,045.00	1.00	241.50	10,001.11	410.29	179.48	-408.52	0.53	-0.53	-1.28
10,139.00	1.00	212.20	10,095.10	409.20	178.32	-407.44	0.54	0.00	-31.17
10,234.00	1.00	278.50	10,190.09	408.63	177.06	-406.88	1.15	0.00	69.79
10,327.00	1.70	304.70	10,283.06	409.53	175.12	-407.80	0.99	0.75	28.17
10,422.00	3.10	299.80	10,377.98	411.61	171.73	-409.91	1.49	1.47	-5.16
10,516.00	2.80	302.30	10,471.85	414.10	167.59	-412.44	0.35	-0.32	2.66
10,611.00	2.20	290.90	10,566.76	415.99	163.92	-414.37	0.82	-0.63	-12.00
10,705.00	2.80	290.60	10,660.67	417.44	160.09	-415.86	0.64	0.64	-0.32
10,799.00	2.30	304.40	10,754.58	419.32	156.38	-417.77	0.84	-0.53	14.68
10,893.00	3.40	322.00	10,848.46	422.58	153.11	-421.06	1.48	1.17	18.72
10,988.00	5.00	306.90	10,943.21	427.28	148.06	-425.82	2.03	1.68	-15.89
11,082.00	4.40	299.10	11,036.89	431.50	141.64	-430.09	0.93	-0.64	-8.30
11,176.00	5.20	293.80	11,130.56	434.97	134.59	-433.63	0.97	0.85	-5.64
11,271.00	4.60	304.20	11,225.22	438.85	127.50	-437.58	1.13	-0.63	10.95
11,366.00	4.30	314.30	11,319.93	443.48	121.80	-442.27	0.88	-0.32	10.63
11,460.00	5.30	304.40	11,413.60	448.39	115.70	-447.24	1.38	1.06	-10.53
11,498.00	5.20	303.10	11,451.44	450.32	112.80	-449.20	0.41	-0.26	-3.42
Tie-In to MS MWD - 11498.00' MD									
11,587.00	12.60	299.80	11,539.31	457.36	100.99	-456.35	8.33	8.31	-3.71
11,634.00	12.10	295.80	11,585.22	462.05	92.10	-461.13	2.11	-1.06	-8.51
11,681.00	9.90	272.00	11,631.38	464.34	83.62	-463.50	10.63	-4.68	-50.64
11,728.00	8.70	227.60	11,677.82	462.08	76.95	-461.31	15.08	-2.55	-94.47
11,776.00	11.90	193.40	11,725.08	454.81	73.12	-454.07	14.08	6.67	-71.25
11,823.00	18.80	183.40	11,770.39	442.52	71.55	-441.80	15.67	14.68	-21.28
11,871.00	23.10	180.00	11,815.20	425.37	71.09	-424.66	9.31	8.96	-7.08
11,918.00	26.30	176.20	11,857.90	405.76	71.78	-405.04	7.60	6.81	-8.09
11,965.00	28.00	178.00	11,899.72	384.34	72.85	-383.61	4.02	3.62	3.83
12,012.00	31.80	181.60	11,940.46	360.92	72.89	-360.20	8.94	8.09	7.66
12,060.00	33.80	185.90	11,980.81	335.00	71.17	-334.28	6.39	4.17	8.96
12,107.00	38.70	186.10	12,018.70	307.37	68.26	-306.68	10.43	10.43	0.43
12,154.00	44.10	182.90	12,053.95	276.40	65.87	-275.74	12.34	11.49	-6.81
12,201.00	49.90	179.50	12,086.00	242.05	65.20	-241.40	13.42	12.34	-7.23
12,248.00	54.10	180.80	12,114.93	205.03	65.09	-204.38	9.20	8.94	2.77
12,295.00	59.50	181.30	12,140.65	165.72	64.36	-165.08	11.52	11.49	1.06
12,343.00	63.70	183.70	12,163.48	123.55	62.50	-122.94	9.79	8.75	5.00
12,390.00	67.20	184.90	12,183.01	80.93	59.29	-80.35	7.80	7.45	2.55
12,437.00	71.50	186.60	12,199.58	37.18	54.88	-36.65	9.75	9.15	3.62
12,484.00	73.70	186.80	12,213.63	-7.36	49.65	7.84	4.70	4.68	0.43
12,532.00	76.10	188.20	12,226.14	-53.30	43.59	53.72	5.74	5.00	2.92

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,558.00	79.60	189.30	12,231.61	-78.41	39.73	78.80	14.08	13.46	4.23
12,605.00	86.00	187.40	12,237.49	-124.52	32.96	124.84	14.19	13.62	-4.04
12,652.00	90.90	186.20	12,238.77	-171.16	27.40	171.42	10.73	10.43	-2.55
12,747.00	91.00	184.60	12,237.19	-265.72	18.47	265.89	1.69	0.11	-1.68
12,841.00	91.40	184.50	12,235.22	-359.41	11.01	359.50	0.44	0.43	-0.11
12,935.00	89.70	185.70	12,234.32	-453.03	2.65	453.03	2.21	-1.81	1.28
13,029.00	90.60	185.10	12,234.07	-546.61	-6.19	546.52	1.15	0.96	-0.64
13,124.00	87.40	185.20	12,235.73	-641.20	-14.72	641.02	3.37	-3.37	0.11
13,218.00	88.50	186.10	12,239.09	-734.68	-23.97	734.41	1.51	1.17	0.96
13,312.00	89.10	185.10	12,241.06	-828.21	-33.14	827.84	1.24	0.64	-1.06
13,407.00	86.10	185.70	12,245.04	-922.69	-42.07	922.24	3.22	-3.16	0.63
13,501.00	83.90	178.00	12,253.24	-1,016.21	-45.10	1,015.72	8.49	-2.34	-8.19
13,596.00	91.80	174.80	12,256.81	-1,110.87	-39.14	1,110.43	8.97	8.32	-3.37
13,691.00	88.80	171.80	12,256.31	-1,205.19	-28.05	1,204.86	4.47	-3.16	-3.16
13,785.00	89.70	170.00	12,257.54	-1,298.00	-13.19	1,297.81	2.14	0.96	-1.91
13,879.00	89.90	171.20	12,257.87	-1,390.73	2.16	1,390.69	1.29	0.21	1.28
13,974.00	89.90	172.60	12,258.03	-1,484.78	15.55	1,484.86	1.47	0.00	1.47
14,068.00	89.50	173.70	12,258.53	-1,578.11	26.76	1,578.30	1.25	-0.43	1.17
14,163.00	89.40	173.50	12,259.44	-1,672.51	37.35	1,672.80	0.24	-0.11	-0.21
14,257.00	89.60	176.40	12,260.26	-1,766.13	45.62	1,766.50	3.09	0.21	3.09
14,352.00	87.70	177.70	12,262.50	-1,860.98	50.51	1,861.38	2.42	-2.00	1.37
14,446.00	89.30	180.50	12,264.96	-1,954.92	51.98	1,955.33	3.43	1.70	2.98
14,541.00	88.80	178.70	12,266.53	-2,049.90	52.65	2,050.32	1.97	-0.53	-1.89
14,635.00	89.50	180.30	12,267.93	-2,143.88	53.47	2,144.30	1.86	0.74	1.70
14,730.00	90.70	179.50	12,267.76	-2,238.88	53.63	2,239.30	1.52	1.26	-0.84
14,824.00	89.80	182.80	12,267.35	-2,332.85	51.75	2,333.24	3.64	-0.96	3.51
14,919.00	89.30	183.60	12,268.10	-2,427.69	46.44	2,428.03	0.99	-0.53	0.84
15,014.00	90.80	183.10	12,268.01	-2,522.53	40.89	2,522.81	1.66	1.58	-0.53
15,108.00	90.20	180.70	12,267.19	-2,616.47	37.78	2,616.71	2.63	-0.64	-2.55
15,203.00	89.50	181.00	12,267.44	-2,711.45	36.37	2,711.68	0.80	-0.74	0.32
15,297.00	89.80	179.50	12,268.02	-2,805.45	35.96	2,805.67	1.63	0.32	-1.60
15,392.00	92.10	176.30	12,266.44	-2,900.35	39.44	2,900.60	4.15	2.42	-3.37
15,487.00	92.80	176.30	12,262.38	-2,995.07	45.56	2,995.37	0.74	0.74	0.00
15,581.00	91.30	180.20	12,259.02	-3,088.94	48.43	3,089.27	4.44	-1.60	4.15
15,676.00	90.90	180.30	12,257.19	-3,183.92	48.01	3,184.24	0.43	-0.42	0.11
15,770.00	90.30	178.50	12,256.21	-3,277.91	49.00	3,278.23	2.02	-0.64	-1.91
15,865.00	91.70	178.70	12,254.55	-3,372.86	51.32	3,373.20	1.49	1.47	0.21
15,960.00	92.00	179.30	12,251.48	-3,467.80	52.98	3,468.15	0.71	0.32	0.63
16,054.00	96.20	182.00	12,244.76	-3,561.52	51.92	3,561.86	5.31	4.47	2.87
16,149.00	94.80	180.30	12,235.66	-3,656.06	50.02	3,656.38	2.31	-1.47	-1.79
16,244.00	98.00	183.10	12,225.07	-3,750.41	47.23	3,750.69	4.46	3.37	2.95
16,338.00	98.30	182.50	12,211.74	-3,843.35	42.68	3,843.58	0.71	0.32	-0.64
16,433.00	95.50	184.40	12,200.33	-3,937.47	37.00	3,937.65	3.55	-2.95	2.00

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,528.00	91.30	183.40	12,194.70	-4,032.06	30.56	4,032.17	4.54	-4.42	-1.05
16,626.00	89.50	184.40	12,194.01	-4,129.83	23.89	4,129.86	2.10	-1.84	1.02
16,720.00	89.40	181.80	12,194.91	-4,223.68	18.81	4,223.66	2.77	-0.11	-2.77
16,815.00	90.00	180.80	12,195.41	-4,318.65	16.65	4,318.61	1.23	0.63	-1.05
16,910.00	89.50	178.00	12,195.83	-4,413.64	17.65	4,413.60	2.99	-0.53	-2.95
17,004.00	90.10	176.70	12,196.15	-4,507.53	22.00	4,507.53	1.52	0.64	-1.38
17,099.00	90.00	177.40	12,196.07	-4,602.41	26.88	4,602.45	0.74	-0.11	0.74
17,193.00	90.20	178.90	12,195.91	-4,696.35	29.92	4,696.42	1.61	0.21	1.60
17,288.00	90.20	178.20	12,195.58	-4,791.32	32.32	4,791.41	0.74	0.00	-0.74
17,383.00	90.20	177.90	12,195.24	-4,886.27	35.56	4,886.38	0.32	0.00	-0.32
17,477.00	89.90	180.70	12,195.16	-4,980.25	36.70	4,980.37	3.00	-0.32	2.98
17,572.00	90.00	182.00	12,195.24	-5,075.22	34.47	5,075.32	1.37	0.11	1.37
17,667.00	90.00	179.20	12,195.24	-5,170.21	33.47	5,170.29	2.95	0.00	-2.95
17,761.00	90.70	177.90	12,194.67	-5,264.17	35.85	5,264.27	1.57	0.74	-1.38
17,856.00	90.20	179.10	12,193.92	-5,359.13	38.34	5,359.25	1.37	-0.53	1.26
17,950.00	90.40	176.50	12,193.43	-5,453.06	41.94	5,453.21	2.77	0.21	-2.77
18,044.00	90.50	168.40	12,192.69	-5,546.16	54.28	5,546.43	8.62	0.11	-8.62
18,139.00	90.80	165.40	12,191.61	-5,638.67	75.81	5,639.14	3.17	0.32	-3.16
18,233.00	91.50	167.70	12,189.73	-5,730.07	97.67	5,730.75	2.56	0.74	2.45
18,327.00	88.00	169.70	12,190.14	-5,822.23	116.09	5,823.08	4.29	-3.72	2.13
18,422.00	83.00	174.90	12,197.59	-5,916.01	128.78	5,916.99	7.58	-5.26	5.47
18,517.00	86.10	181.00	12,206.62	-6,010.47	132.15	6,011.47	7.18	3.26	6.42
18,611.00	89.40	183.80	12,210.32	-6,104.29	128.21	6,105.25	4.60	3.51	2.98
18,706.00	91.10	181.80	12,209.90	-6,199.17	123.57	6,200.08	2.76	1.79	-2.11
18,800.00	90.30	183.60	12,208.75	-6,293.05	119.15	6,293.92	2.10	-0.85	1.91
18,895.00	89.50	183.70	12,208.92	-6,387.86	113.10	6,388.66	0.85	-0.84	0.11
18,990.00	89.60	184.00	12,209.66	-6,482.64	106.72	6,483.37	0.33	0.11	0.32
19,084.00	91.00	182.30	12,209.17	-6,576.49	101.55	6,577.17	2.34	1.49	-1.81
19,179.00	89.00	183.50	12,209.17	-6,671.36	96.75	6,671.99	2.46	-2.11	1.26
19,273.00	89.10	183.60	12,210.73	-6,765.17	90.93	6,765.74	0.15	0.11	0.11
19,368.00	89.40	183.80	12,211.97	-6,859.96	84.80	6,860.47	0.38	0.32	0.21
19,463.00	89.30	184.00	12,213.05	-6,954.74	78.34	6,955.17	0.24	-0.11	0.21
19,557.00	88.90	184.40	12,214.53	-7,048.47	71.45	7,048.84	0.60	-0.43	0.43
19,652.00	88.30	184.40	12,216.85	-7,143.17	64.17	7,143.45	0.63	-0.63	0.00
19,747.00	88.90	184.30	12,219.17	-7,237.86	56.97	7,238.07	0.64	0.63	-0.11
19,800.00	90.00	183.90	12,219.68	-7,290.72	53.18	7,290.90	2.21	2.08	-0.75
19,838.00	90.00	183.90	12,219.68	-7,328.64	50.59	7,328.78	0.00	0.00	0.00

Projection to TD-19838.00' MD

Kaiser-Francis Oil Company

MS Directional
Survey Report

Company:	Kaiser-Francis	Local Co-ordinate Reference:	Well Red Hills 401H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3428.10usft (Cactus 171)
Site:	Red Hills	MD Reference:	WELL @ 3428.10usft (Cactus 171)
Well:	Red Hills 401H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.14 Conroe Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,498.00	11,451.44	450.32	112.80	Tie-In to MS MWD - 11498.00' MD
19,838.00	12,219.68	-7,328.64	50.59	Projection to TD-19838.00' MD

Well Name: RED HILLS	Well Location: T25S / R33E / SEC 31 / LOT 3 / 32.0858566 / -103.6181873	County or Parish/State: LEA / NM
Well Number: 401H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM015321, NMNM15321	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002545572	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 04/16/2021	Time Sundry Submitted: 12:21
Date Operation Actually Began: 11/29/2020	

Actual Procedure: Completion began (11/29/20) Completion finished (12/17/20) 1.MIRU WL 2.TCP Stage 1: 19,550-19,672. Broke down perms. 3.Stage frac'd lateral 12,343-19,672 in 43 stages w/ 365,080 bbls fluid + 21,378,781# sand 4.Drilled out plugs and cleaned out lateral to PBTD w/ Tri-Cone bit. Flowed back well.

SR Attachments

Actual Procedure

Red_Hills_401H_WBD_20210416122142.pdf

Well Name: RED HILLS	Well Location: T25S / R33E / SEC 31 / LOT 3 / 32.0858566 / -103.6181873	County or Parish/State: LEA / NM
Well Number: 401H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM015321, NMNM15321	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002545572	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

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: ERIC HANSEN	Signed on: APR 15, 2021 01:43 PM
Name: KAISER FRANCIS OIL COMPANY	
Title: Drilling Engineer	
Street Address: 6733 S. Yale Ave.	
City: Tulsa	State: OK
Phone: (918) 491-4339	
Email address: EricH@kfoc.net	

Field Representative

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

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345998	BLM POC Email Address: ZSTEVENS@BLM.GOV
Disposition: Accepted	Disposition Date: 04/16/2021
Signature: Zota Stevens	

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: 401H		
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		2165	South	400	West	Lea
BH:	4	6	26S	33E		114	South	379	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.)			
2/19/19	10/10/20	10/12/20		1/28/21			3405 GR			
18. Total Measured Depth of Well			19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run			
19,838MD 12,208TVD			19,679MD 12208TVD		Yes		GR			
22. Producing Interval(s), of this completion - Top, Bottom, Name										
12,343-19,672							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		900		17-1/2		660 SXS		-0-
7-5/8		29.7		11,545		14-3/4		800 SXS		-0-
5-1/2		20		19,776		9-7/8		1335 SXS		-0-
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
None	-	-	-	-		None		-		-
26. Perforation record (interval, size, and number)										
12,343-19,672 .42 #1935										
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.										
DEPTH INTERVAL						AMOUNT AND KIND MATERIAL USED				
12,343-						365,080 bbl fluid +				
19,672						21,378,781				
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
2/2/21		Flowing				Prod				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
2/24/21	24	32/64		1074	2690	4338	2504			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	3725		1074	2690	4338					
29. Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By			
SOLD										
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			Printed Name Eric Hansen			Title Petroleum Engineer				
Date 4/12/21										
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 12,343 to 19,672
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			Delaware				
9185			Avalon				
9980			1st Bone Sprg				
10540			2nd Bone Sprg				
10995			2nd Bone Sprg Lm				
11745			3rd Bone Sprg				
12260			Wolfcamp				

Kaiser-Francis Oil Company

Field:
County:
State:
SHL:
BHL:

Red Hills
Lea
New Mexico

Sec 31-25S-33E (2165' FSL & 400' FWL)
Sec 6-26S-33E (114' FSL & 379' FWL)

API:
Spud Date:
Completed:
Elevation:
Diagram Updated:

30-025-45572
2/19/2019
December 17, 2020
KB- 3429' GL-3405'
February 11, 2021

10/20: Pressure test csg to 11,300#. Test annulus to 1,000#. TCP Stage 1: 19,550'-19,672' O/A w/5, 3 1/8" guns. SD well.

12/20: Stage-Frac lateral 12,343'-19,672' O/A in 43 stages w/121,300 gal 15% HCl, 365,080 bbls SW and 72,229 bbls HVFR carrying 1,818,051# 100M and 19,560,730# 40/70 white.

1/20: Drilled out all plugs w/ 4 5/8" Tri-Cone bit after CT got stuck @ 12,637'. TLTR: 445,564 bbls. SICP: 3,500#

<

>

10 3/4" 40.5# J-55 @ 900'.
Cmt'd w/ 660 sx . Circ.

Est TOC @ 1212'

DV Tool @ 4,842'. Cmt w/ 855 sx. Spacer returned to surf.

Sidetrack @ 11,670'

7 5/8" 29.7# HCP-110 @ 11,545'. Cmt'd w/ 800 sx .

5 1/2" 20# HP-110 Eagle SF @ 19,776' cmt'd w/ 1335 sx. Ret spacer

TD:
19838' MD
12208' TVD

PBTD:
19679' MD
12208' TVD

cmt plug f/ 13380-11603'

Pilot Hole TD @ 13380'

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 39803

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 39803
	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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Phone:(505) 334-6178 Fax:(505) 334-6170
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 39803

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 39803
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/7/2021