

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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 30-025-47228	⁵ Pool Name WC-025-4-06 upper Bonespring	⁶ Pool Code 97903
⁷ Property Code	⁸ Property Name Red Hills Federal	⁹ Well Number 205H

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
B	31	25S	33E		280	North	2570	East	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
O	6	26S	33E		106	South	1685	East	Lea
¹² Lse Code	¹³ Producing Method Code	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 8/10/20	²² Ready Date 2/13/21	²³ TD 20,985MD	²⁴ PBDT 20,817MD	²⁵ Perforations 11,054-20,784	²⁶ DHC, MC —
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2	13-3/8	1,002	655 sxs		
12-1/4	9-5/8	4,826	1,295 sxs		
8-1/2	5-1/2	20,957	3,820 sxs		

V. Well Test Data

³¹ Date New Oil 2/20/21	³² Gas Delivery Date 2/20/21	³³ Test Date 3/18/21	³⁴ Test Length 24	³⁵ Tbg. Pressure —	³⁶ Csg. Pressure 1353
³⁷ Choke Size 38/64	³⁸ Oil 1095	³⁹ Water 3430	⁴⁰ Gas 1987	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: *Eric Hansen*
Printed name: Eric Hansen
Title: Petroleum Engineer
E-mail Address: EricH@kfoc.net
Date: 4/9/21

OIL CONSERVATION DIVISION

Approved by: KURT SIMMONS

Title: NMOCD, SANTA FE

Approval Date: 08/25/2021

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 30-025-47228	² Pool Code 97903	³ Pool Name WCC25 6-06 Upper Bone Spring
⁴ Property Code 5467	⁵ Property Name RED HILLS	⁶ Well Number 205H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3410.4

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
B	31	25 S	33 E		280	NORTH	2570	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	6	26 S	33 E		106	SOUTH	1685	EAST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill I	¹⁴ Consolidation Code 2/207 R- 207	¹⁵ Order No.
--------------------------------------	------------------------------------	--	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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. = 32.0724791°N LONG. = 103.6198675°W NMSP EAST (FT) N = 390835.89 E = 762331.74 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 N/4 CORNER SEC. 31 LAT. = 32.0943196°N LONG. = 103.6113623°W NMSP EAST (FT) N = 398798.70 E = 764913.09 RED HILLS 205H ELEV. = 3410.4' LAT. = 32.0935499°N (NAD83) LONG. = 103.6111523°W NMSP EAST (FT) N = 398519.12 E = 764980.00 KICK OFF POINT 71' FNL, 1860' FEL LAT. = 32.0941249°N LONG. = 103.6082133°W FIRST TAKE POINT 550' FNL, 1761' FEL LAT. = 32.0928092°N LONG. = 103.6085073°W SEC. 31 AS-DRILLED QUARTER CORNER 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 LAST TAKE POINT 399' FSL, 1687' FEL LAT. = 32.0663926°N LONG. = 103.6082952°W BOTTOM OF HOLE LAT. = 32.0655875°N LONG. = 103.6082883°W NMSP EAST (FT) N = 388352.76 E = 765935.30 S/4 CORNER SEC. 6 SCALED N89°35'41"E 2632.14 FT		S89°36'15"W 2635.02 FT 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 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.

Eric Hansen 4/5/21
Signature Date

Eric Hansen
Printed Name

Eric.Hansen@KFOC.net
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 4, 2021
Date of Survey

William F. Jaramillo
Signature and Seal of Professional Surveyor

Certificate Number: 12797
PROFESSIONAL SURVEYOR NO. 7586B

Intent ☐ As Drilled ☒

API # 30-025-47228		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: RED HILLS	Well Number 205H

Kick Off Point (KOP)

UL B	Section 31	Township 25S	Range 33E	Lot	Feet 71	From N/S NORTH	Feet 1660	From E/W EAST	County LEA
Latitude 32.0941249					Longitude 103.6082133				NAD 83

First Take Point (FTP)

UL B	Section 31	Township 25S	Range 33E	Lot	Feet 550	From N/S NORTH	Feet 1751	From E/W EAST	County LEA
Latitude 32.0928092					Longitude 103.6085073				NAD 83

Last Take Point (LTP)

UL O	Section 6	Township 26S	Range 33E	Lot	Feet 399	From N/S SOUTH	Feet 1687	From E/W EAST	County LEA
Latitude 32.0663926					Longitude 103.6082952				NAD 83

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

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

API # 30-025-47182		
Operator Name: Kaiser - Francis	Property Name: Red Hills Federal 206H	Well Number

KZ 06/29/2018

Kaiser-Francis Oil Company

Kaiser-Francis Oil Co.

Lea County, NM (NAD 83)

SEC 31, T25S, R33E

RED HILLS 205H

OH

Design: FINAL

Standard Survey Report

08 September, 2020



Kaiser-Francis Oil Company



CATHEDRAL

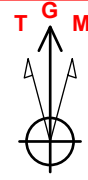
Project: Lea County, NM (NAD 83)
 Site: SEC 31, T25S, R33E
 Well: RED HILLS 205H
 Wellbore: OH
 FINAL

WELL DETAILS: RED HILLS 205H

23.9' KB @ 3434.30usft
 Ground Level: 3410.40

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	398519.12	764980.00	32° 5' 36.780 N	103° 36' 40.148 W

US State Plane 1983
 New Mexico Eastern Zone

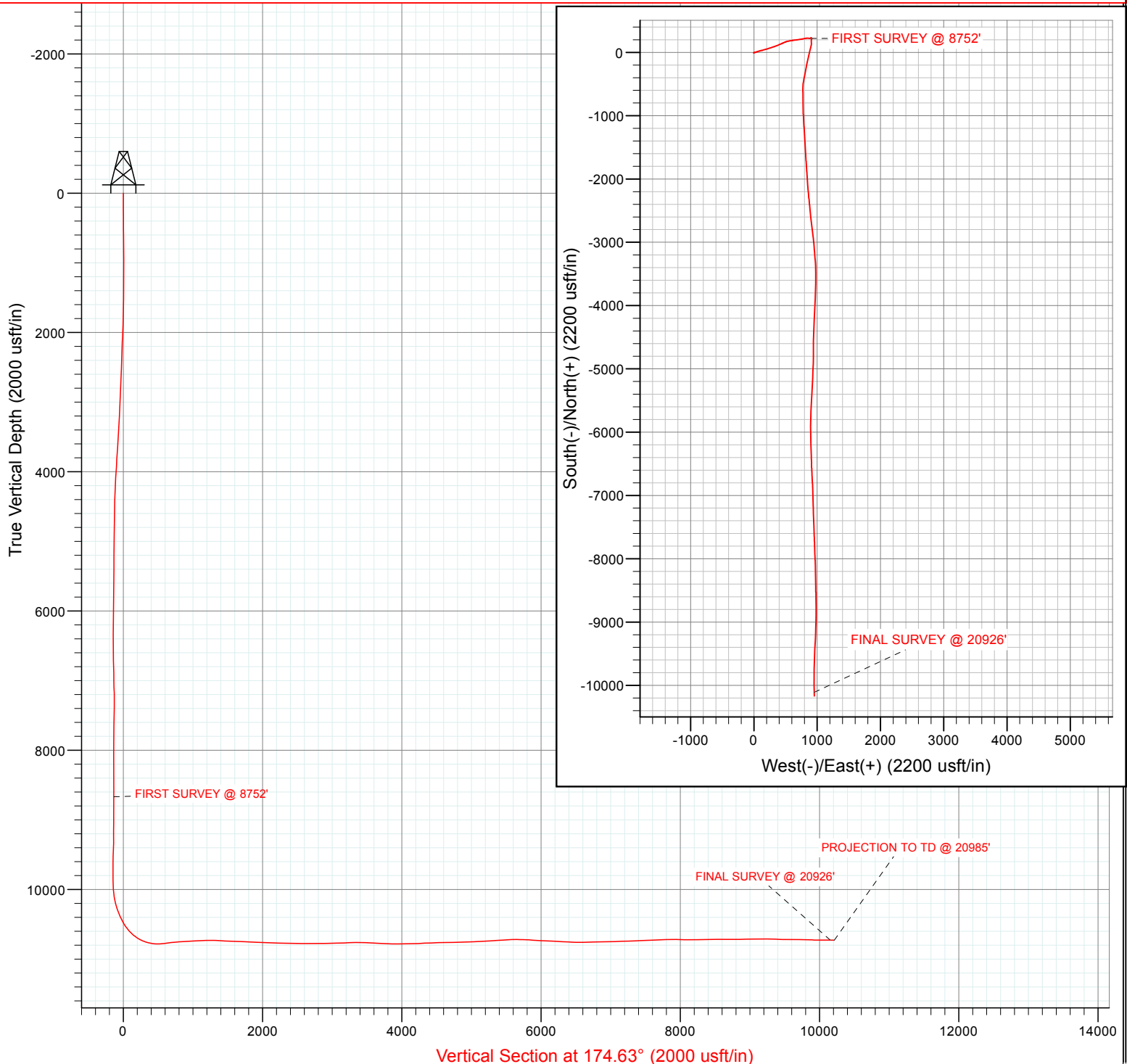


Total Azimuth to Grid North
 True North: -0.38°
 Magnetic North: 6.12°

Magnetic Field
 Strength: 47627.5nT
 Dip Angle: 59.67°
 Date: 9/4/2020
 Model: HDGM_FILE

SURVEY DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
8752.00	0.52	342.08	8668.46	220.82	898.36	-135.81	993.19	FIRST SURVEY @ 8752'
20926.00	89.44	178.15	10727.61	-10109.33	953.57	10154.20	11381.55	FINAL SURVEY @ 20926'
20985.00	89.44	178.15	10728.19	-10168.29	955.48	10213.08	11440.54	PROJECTION TO TD @ 20985'



Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users 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:	398,519.12 usft
From:	Map	Easting:	764,980.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 5' 36.780 N
		Longitude:	103° 36' 40.148 W
		Grid Convergence:	0.38 °

Well	RED HILLS 205H		
Well Position	+N/-S	0.00 usft	Northing: 398,519.12 usft
	+E/-W	0.00 usft	Easting: 764,980.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 36.780 N
		Longitude:	103° 36' 40.148 W
		Ground Level:	3,410.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/4/2020	6.50	59.67	47,627.50000000

Design	FINAL				
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	174.63	

Survey Program	Date	9/8/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
241.00	8,688.00	SB DIRECTIONAL (OH)	MWD+HDGM	OWSG MWD + HDGM	
8,752.00	20,985.00	GT MWD (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
241.00	0.57	144.00	241.00	-0.97	0.70	1.03	0.24	0.24	
331.00	0.84	148.66	330.99	-1.90	1.31	2.01	0.31	0.30	
421.00	0.62	173.89	420.98	-2.94	1.71	3.09	0.43	-0.24	
512.00	0.44	170.90	511.98	-3.78	1.81	3.93	0.20	-0.20	
602.00	0.48	205.70	601.98	-4.46	1.70	4.60	0.31	0.04	
693.00	0.53	213.26	692.97	-5.15	1.31	5.25	0.09	0.05	
784.00	0.53	221.00	783.97	-5.82	0.80	5.87	0.08	0.00	
875.00	0.48	193.84	874.96	-6.51	0.43	6.52	0.27	-0.05	
961.00	0.66	239.89	960.96	-7.11	-0.08	7.07	0.55	0.21	
1,056.00	1.36	261.43	1,055.95	-7.55	-1.67	7.36	0.83	0.74	
1,148.00	1.19	249.56	1,147.92	-8.05	-3.64	7.67	0.34	-0.18	

Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
1,239.00	0.48	154.20	1,238.92	-8.72	-4.36	8.28	1.46	-0.78	
1,331.00	1.49	64.73	1,330.90	-8.56	-3.11	8.23	1.70	1.10	
1,422.00	2.15	57.70	1,421.86	-7.14	-0.60	7.05	0.76	0.73	
1,513.00	3.69	67.28	1,512.74	-5.10	3.54	5.41	1.77	1.69	
1,607.00	6.29	73.60	1,606.37	-2.47	11.27	3.52	2.82	2.77	
1,702.00	7.60	72.73	1,700.67	0.86	22.27	1.23	1.38	1.38	
1,796.00	9.10	72.02	1,793.68	5.00	35.27	-1.68	1.60	1.60	
1,891.00	8.92	72.55	1,887.50	9.53	49.45	-4.86	0.21	-0.19	
1,985.00	9.85	72.02	1,980.24	14.19	64.05	-8.14	0.99	0.99	
2,080.00	9.67	71.93	2,073.87	19.18	79.36	-11.67	0.19	-0.19	
2,174.00	10.86	75.10	2,166.36	23.90	95.42	-14.87	1.40	1.27	
2,269.00	10.86	76.86	2,259.66	28.24	112.79	-17.56	0.35	0.00	
2,363.00	11.91	73.52	2,351.81	33.00	130.71	-20.63	1.32	1.12	
2,457.00	11.96	74.31	2,443.78	38.39	149.39	-24.25	0.18	0.05	
2,552.00	11.82	74.92	2,536.74	43.58	168.26	-27.65	0.20	-0.15	
2,646.00	11.56	75.19	2,628.79	48.50	186.66	-30.82	0.28	-0.28	
2,741.00	11.25	74.13	2,721.92	53.46	204.78	-34.07	0.39	-0.33	
2,835.00	11.52	72.11	2,814.07	58.85	222.53	-37.78	0.51	0.29	
2,929.00	11.87	72.20	2,906.12	64.69	240.67	-41.89	0.37	0.37	
3,024.00	11.91	72.37	2,999.08	70.65	259.31	-46.08	0.06	0.04	
3,119.00	11.56	72.02	3,092.09	76.56	277.71	-50.24	0.38	-0.37	
3,213.00	11.47	70.88	3,184.20	82.52	295.50	-54.52	0.26	-0.10	
3,307.00	11.52	72.02	3,276.31	88.48	313.26	-58.79	0.25	0.05	
3,402.00	11.82	69.56	3,369.35	94.81	331.40	-63.39	0.61	0.32	
3,497.00	12.18	68.77	3,462.28	101.84	349.86	-68.66	0.42	0.38	
3,591.00	12.40	67.54	3,554.12	109.28	368.43	-74.34	0.36	0.23	
3,686.00	12.40	67.54	3,646.91	117.08	387.28	-80.33	0.00	0.00	
3,780.00	11.96	66.84	3,738.79	124.76	405.56	-86.27	0.49	-0.47	
3,874.00	11.69	66.49	3,830.79	132.39	423.25	-92.21	0.30	-0.29	
3,969.00	10.90	66.84	3,923.95	139.76	440.33	-97.96	0.83	-0.83	
4,064.00	10.20	66.57	4,017.35	146.64	456.31	-103.31	0.74	-0.74	
4,159.00	9.58	65.43	4,110.93	153.27	471.22	-108.52	0.68	-0.65	
4,253.00	9.32	65.96	4,203.66	159.63	485.28	-113.53	0.29	-0.28	
4,348.00	9.63	69.12	4,297.36	165.59	499.73	-118.11	0.64	0.33	
4,442.00	8.75	71.58	4,390.16	170.65	513.86	-121.83	1.03	-0.94	
4,535.00	8.48	75.71	4,482.11	174.58	527.22	-124.49	0.73	-0.29	
4,630.00	8.97	80.46	4,576.01	177.54	541.31	-126.12	0.92	0.52	
4,724.00	8.70	79.32	4,668.89	180.07	555.52	-127.31	0.34	-0.29	
4,789.00	8.04	79.14	4,733.20	181.84	564.82	-128.20	1.02	-1.02	
4,902.00	7.43	80.98	4,845.17	184.47	579.79	-129.42	0.58	-0.54	
4,997.00	6.99	78.87	4,939.42	186.55	591.53	-130.39	0.54	-0.46	
5,092.00	8.44	80.36	5,033.56	188.83	604.08	-131.49	1.54	1.53	
5,186.00	9.45	81.77	5,126.41	191.09	618.52	-132.39	1.10	1.07	
5,280.00	9.89	83.26	5,219.08	193.15	634.17	-132.97	0.54	0.47	
5,375.00	10.20	83.61	5,312.62	195.04	650.63	-133.31	0.33	0.33	
5,469.00	10.73	83.09	5,405.06	197.02	667.59	-133.70	0.57	0.56	
5,564.00	10.77	82.21	5,498.39	199.29	685.17	-134.31	0.18	0.04	
5,658.00	10.73	81.50	5,590.74	201.77	702.52	-135.16	0.15	-0.04	
5,753.00	10.81	81.06	5,684.07	204.46	720.07	-136.20	0.12	0.08	
5,847.00	10.59	80.89	5,776.43	207.20	737.30	-137.31	0.24	-0.23	
5,942.00	9.80	79.83	5,869.93	210.01	753.88	-138.56	0.85	-0.83	
6,037.00	9.36	79.22	5,963.61	212.88	769.43	-139.96	0.48	-0.46	
6,131.00	9.32	79.13	6,056.36	215.75	784.41	-141.41	0.05	-0.04	

Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
6,226.00	9.19	78.69	6,150.13	218.68	799.41	-142.94	0.16	-0.14	
6,321.00	9.80	78.69	6,243.82	221.76	814.77	-144.56	0.64	0.64	
6,416.00	9.54	84.84	6,337.48	224.05	830.54	-145.37	1.12	-0.27	
6,511.00	8.22	93.81	6,431.34	224.31	845.16	-144.26	2.01	-1.39	
6,605.00	8.22	91.88	6,524.37	223.64	858.58	-142.34	0.29	0.00	
6,700.00	6.95	96.89	6,618.54	222.73	871.08	-140.26	1.51	-1.34	
6,795.00	6.20	93.90	6,712.92	221.69	881.90	-138.21	0.87	-0.79	
6,890.00	5.32	96.18	6,807.44	220.87	891.40	-136.51	0.96	-0.93	
6,984.00	4.53	90.91	6,901.09	220.34	899.44	-135.23	0.97	-0.84	
7,079.00	3.38	98.56	6,995.86	219.86	905.96	-134.14	1.33	-1.21	
7,174.00	2.51	119.03	7,090.74	218.44	910.55	-132.29	1.42	-0.92	
7,268.00	2.07	127.38	7,184.66	216.41	913.70	-129.98	0.59	-0.47	
7,363.00	0.35	90.56	7,279.64	215.36	915.35	-128.78	1.90	-1.81	
7,458.00	1.23	316.61	7,374.63	216.10	914.94	-129.56	1.57	0.93	
7,552.00	1.01	317.49	7,468.62	217.44	913.69	-131.01	0.23	-0.23	
7,646.00	0.97	316.08	7,562.60	218.63	912.58	-132.29	0.05	-0.04	
7,740.00	0.84	316.61	7,656.59	219.70	911.55	-133.46	0.14	-0.14	
7,834.00	0.92	311.51	7,750.58	220.70	910.51	-134.55	0.12	0.09	
7,928.00	0.97	302.90	7,844.57	221.64	909.28	-135.60	0.16	0.05	
8,023.00	0.79	302.20	7,939.55	222.42	908.05	-136.49	0.19	-0.19	
8,121.00	0.79	292.27	8,037.55	223.04	906.86	-137.22	0.14	0.00	
8,215.00	0.70	277.59	8,131.54	223.36	905.69	-137.65	0.22	-0.10	
8,310.00	0.79	270.38	8,226.53	223.44	904.46	-137.84	0.14	0.09	
8,404.00	1.10	246.39	8,320.52	223.08	902.98	-137.63	0.53	0.33	
8,499.00	1.32	231.18	8,415.50	222.03	901.29	-136.74	0.41	0.23	
8,594.00	1.36	229.16	8,510.47	220.61	899.59	-135.48	0.07	0.04	
8,688.00	0.53	336.30	8,604.46	220.28	898.57	-135.25	1.70	-0.88	
8,752.00	0.52	342.08	8,668.46	220.82	898.36	-135.81	0.08	-0.02	FIRST SURVEY @ 8752'
8,847.00	0.63	338.65	8,763.45	221.72	898.04	-136.73	0.12	0.12	
8,942.00	0.18	338.66	8,858.45	222.35	897.79	-137.38	0.47	-0.47	
9,037.00	0.14	358.52	8,953.45	222.60	897.74	-137.64	0.07	-0.04	
9,132.00	0.38	296.29	9,048.45	222.86	897.45	-137.92	0.36	0.25	
9,227.00	0.58	82.51	9,143.45	223.06	897.65	-138.10	0.97	0.21	
9,322.00	0.91	63.61	9,238.44	223.46	898.80	-138.39	0.43	0.35	
9,417.00	1.21	42.31	9,333.42	224.53	900.15	-139.34	0.52	0.32	
9,512.00	2.39	32.67	9,428.38	226.94	901.89	-141.57	1.28	1.24	
9,606.00	2.25	15.80	9,522.30	230.37	903.45	-144.84	0.74	-0.15	
9,701.00	1.07	76.94	9,617.26	232.36	904.83	-146.69	2.07	-1.24	
9,796.00	0.50	31.62	9,712.26	232.92	905.91	-147.14	0.84	-0.60	
9,891.00	0.70	153.52	9,807.25	232.75	906.38	-146.93	1.11	0.21	
9,986.00	2.27	151.61	9,902.22	230.58	907.54	-144.66	1.65	1.65	
10,057.00	2.32	154.48	9,973.16	228.04	908.82	-142.02	0.18	0.07	
10,105.00	2.36	158.89	10,021.12	226.24	909.60	-140.15	0.38	0.08	
10,200.00	11.16	188.63	10,115.38	215.31	908.92	-129.33	9.67	9.26	
10,295.00	14.57	183.32	10,207.99	194.28	906.85	-108.59	3.80	3.59	
10,390.00	19.13	174.73	10,298.90	166.83	907.59	-81.19	5.46	4.80	
10,485.00	26.20	181.52	10,386.52	130.31	908.46	-44.75	7.92	7.44	
10,580.00	29.53	196.99	10,470.61	86.89	901.05	-2.21	8.35	3.51	
10,675.00	37.67	193.20	10,549.68	36.15	887.56	47.04	8.84	8.57	
10,770.00	46.27	193.57	10,620.24	-25.59	872.85	107.14	9.06	9.05	
10,865.00	54.98	193.91	10,680.45	-96.86	855.41	176.46	9.17	9.17	
10,959.00	65.81	191.19	10,726.83	-176.52	837.78	254.13	11.79	11.52	
11,054.00	73.69	190.46	10,759.68	-264.00	821.07	339.66	8.33	8.29	

Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
11,149.00	82.86	191.01	10,778.97	-355.29	803.76	428.93	9.67	9.65	
11,215.00	89.89	191.33	10,783.14	-419.87	791.00	492.03	10.66	10.65	
11,244.00	92.89	190.76	10,782.43	-448.32	785.45	519.84	10.53	10.34	
11,291.00	96.20	186.91	10,778.71	-494.60	778.25	565.24	10.78	7.04	
11,339.00	98.12	181.70	10,772.72	-542.07	774.68	612.17	11.49	4.00	
11,386.00	98.32	180.17	10,766.00	-588.58	773.92	658.40	3.25	0.43	
11,434.00	95.58	179.10	10,760.19	-636.22	774.22	705.86	6.12	-5.71	
11,481.00	93.98	179.04	10,756.28	-683.05	774.98	752.56	3.41	-3.40	
11,528.00	93.70	179.07	10,753.13	-729.94	775.75	799.31	0.60	-0.60	
11,623.00	93.26	178.99	10,747.36	-824.75	777.36	893.86	0.47	-0.46	
11,718.00	93.45	179.20	10,741.80	-919.58	778.86	988.41	0.30	0.20	
11,813.00	92.30	176.80	10,737.04	-1,014.39	782.17	1,083.12	2.80	-1.21	
11,908.00	92.78	176.71	10,732.83	-1,109.14	787.54	1,177.96	0.51	0.51	
12,002.00	88.66	176.48	10,731.65	-1,202.95	793.12	1,271.88	4.39	-4.38	
12,097.00	87.31	176.15	10,734.99	-1,297.69	799.23	1,366.77	1.46	-1.42	
12,192.00	86.44	176.55	10,740.17	-1,392.36	805.26	1,461.59	1.01	-0.92	
12,287.00	88.15	176.48	10,744.65	-1,487.07	811.03	1,556.43	1.80	1.80	
12,381.00	88.46	177.11	10,747.43	-1,580.89	816.29	1,650.32	0.75	0.33	
12,476.00	88.15	176.43	10,750.24	-1,675.69	821.64	1,745.21	0.79	-0.33	
12,571.00	87.28	176.04	10,754.03	-1,770.41	827.87	1,840.10	1.00	-0.92	
12,666.00	86.78	175.94	10,758.95	-1,865.05	834.50	1,934.94	0.54	-0.53	
12,761.00	87.92	176.39	10,763.34	-1,959.73	840.85	2,029.80	1.29	1.20	
12,855.00	88.37	176.26	10,766.39	-2,053.49	846.87	2,123.71	0.50	0.48	
12,950.00	87.81	175.23	10,769.55	-2,148.18	853.92	2,218.64	1.23	-0.59	
13,045.00	87.48	174.24	10,773.46	-2,242.69	862.63	2,313.56	1.10	-0.35	
13,140.00	88.71	174.01	10,776.61	-2,337.14	872.34	2,408.50	1.32	1.29	
13,235.00	89.66	175.12	10,777.97	-2,431.70	881.34	2,503.49	1.54	1.00	
13,330.00	90.20	174.05	10,778.08	-2,526.28	890.31	2,598.49	1.26	0.57	
13,425.00	91.46	173.72	10,776.71	-2,620.72	900.42	2,693.47	1.37	1.33	
13,519.00	90.95	172.94	10,774.73	-2,714.07	911.34	2,787.42	0.99	-0.54	
13,614.00	90.84	173.16	10,773.24	-2,808.36	922.83	2,882.37	0.26	-0.12	
13,709.00	91.01	172.98	10,771.71	-2,902.65	934.30	2,977.33	0.26	0.18	
13,804.00	90.50	174.27	10,770.46	-2,997.05	944.84	3,072.30	1.46	-0.54	
13,899.00	91.68	176.01	10,768.65	-3,091.69	952.89	3,167.27	2.21	1.24	
13,930.00	91.80	175.18	10,767.71	-3,122.58	955.27	3,198.26	2.70	0.39	
14,025.00	91.63	175.39	10,764.87	-3,217.22	963.07	3,293.21	0.28	-0.18	
14,120.00	90.62	175.18	10,763.00	-3,311.88	970.88	3,388.18	1.09	-1.06	
14,215.00	87.50	178.50	10,764.56	-3,406.69	976.12	3,483.07	4.80	-3.28	
14,310.00	86.01	179.60	10,769.94	-3,501.52	977.69	3,577.63	1.95	-1.57	
14,405.00	87.28	180.04	10,775.50	-3,596.36	977.99	3,672.08	1.41	1.34	
14,500.00	88.01	180.82	10,779.40	-3,691.27	977.28	3,766.51	1.12	0.77	
14,594.00	89.10	181.24	10,781.77	-3,785.23	975.59	3,859.90	1.24	1.16	
14,689.00	90.22	184.61	10,782.34	-3,880.09	970.74	3,953.89	3.74	1.18	
14,784.00	90.20	184.04	10,781.99	-3,974.82	963.58	4,047.53	0.60	-0.02	
14,879.00	92.24	182.62	10,779.97	-4,069.63	958.06	4,141.41	2.62	2.15	
14,973.00	92.44	182.04	10,776.13	-4,163.47	954.24	4,234.48	0.65	0.21	
15,068.00	92.69	182.17	10,771.88	-4,258.31	950.75	4,328.58	0.30	0.26	
15,163.00	91.68	181.27	10,768.25	-4,353.20	947.91	4,422.78	1.42	-1.06	
15,258.00	91.90	181.67	10,765.29	-4,448.12	945.47	4,517.06	0.48	0.23	
15,353.00	91.66	181.80	10,762.34	-4,543.03	942.59	4,611.29	0.29	-0.25	
15,447.00	90.87	181.59	10,760.26	-4,636.96	939.82	4,704.55	0.87	-0.84	
15,542.00	90.84	177.23	10,758.84	-4,731.93	940.79	4,799.19	4.59	-0.03	
15,637.00	91.82	182.41	10,756.64	-4,826.87	941.09	4,893.74	5.55	1.03	

Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
15,732.00	92.04	182.15	10,753.44	-4,921.74	937.31	4,987.84	0.36	0.23	
15,827.00	92.94	182.13	10,749.31	-5,016.58	933.77	5,081.94	0.95	0.95	
15,922.00	93.36	181.73	10,744.09	-5,111.38	930.58	5,176.02	0.61	0.44	
16,017.00	93.59	182.56	10,738.33	-5,206.14	927.03	5,270.03	0.91	0.24	
16,111.00	93.87	182.57	10,732.21	-5,299.85	922.83	5,362.94	0.30	0.30	
16,206.00	92.88	184.02	10,726.62	-5,394.52	917.38	5,456.69	1.85	-1.04	
16,301.00	93.45	184.86	10,721.38	-5,489.09	910.04	5,550.15	1.07	0.60	
16,396.00	89.44	184.62	10,718.98	-5,583.72	902.19	5,643.63	4.23	-4.22	
16,491.00	87.87	180.52	10,721.21	-5,678.57	897.93	5,737.67	4.62	-1.65	
16,586.00	87.03	180.13	10,725.44	-5,773.48	897.39	5,832.11	0.97	-0.88	
16,681.00	85.99	179.93	10,731.22	-5,868.30	897.34	5,926.51	1.11	-1.09	
16,776.00	87.17	180.03	10,736.89	-5,963.13	897.38	6,020.93	1.25	1.24	
16,871.00	87.23	179.09	10,741.53	-6,058.01	898.10	6,115.46	0.99	0.06	
16,965.00	87.45	178.64	10,745.89	-6,151.89	899.96	6,209.10	0.53	0.23	
17,060.00	87.25	178.22	10,750.28	-6,246.75	902.56	6,303.79	0.49	-0.21	
17,155.00	87.00	178.11	10,755.05	-6,341.58	905.60	6,398.49	0.29	-0.26	
17,250.00	88.32	178.25	10,758.93	-6,436.45	908.62	6,493.23	1.40	1.39	
17,345.00	90.34	178.24	10,760.04	-6,531.40	911.53	6,588.03	2.13	2.13	
17,440.00	92.52	177.16	10,757.67	-6,626.29	915.34	6,682.86	2.56	2.29	
17,535.00	91.46	176.97	10,754.37	-6,721.10	920.20	6,777.71	1.13	-1.12	
17,630.00	90.31	176.83	10,752.90	-6,815.95	925.33	6,872.63	1.22	-1.21	
17,725.00	91.54	178.00	10,751.37	-6,910.84	929.62	6,967.50	1.79	1.29	
17,820.00	91.85	178.54	10,748.56	-7,005.75	932.49	7,062.26	0.66	0.33	
17,915.00	91.77	178.70	10,745.56	-7,100.68	934.77	7,156.99	0.19	-0.08	
18,010.00	91.88	178.07	10,742.53	-7,195.59	937.45	7,251.73	0.67	0.12	
18,105.00	92.41	178.05	10,738.98	-7,290.47	940.66	7,346.50	0.56	0.56	
18,200.00	92.46	178.15	10,734.94	-7,385.33	943.81	7,441.24	0.12	0.05	
18,294.00	91.85	177.58	10,731.41	-7,479.20	947.31	7,535.02	0.89	-0.65	
18,389.00	92.55	177.61	10,727.76	-7,574.04	951.29	7,629.82	0.74	0.74	
18,484.00	93.39	178.11	10,722.84	-7,668.85	954.83	7,724.54	1.03	0.88	
18,579.00	91.82	178.60	10,718.52	-7,763.71	957.56	7,819.24	1.73	-1.65	
18,674.00	88.12	177.69	10,718.57	-7,858.64	960.63	7,914.05	4.01	-3.89	
18,769.00	88.01	177.40	10,721.78	-7,953.50	964.70	8,008.87	0.33	-0.12	
18,864.00	89.47	178.08	10,723.87	-8,048.40	968.45	8,103.70	1.70	1.54	
18,959.00	90.76	178.67	10,723.68	-8,143.36	971.14	8,198.50	1.49	1.36	
19,053.00	91.82	178.71	10,721.56	-8,237.31	973.29	8,292.24	1.13	1.13	
19,148.00	91.04	179.15	10,719.19	-8,332.26	975.06	8,386.94	0.94	-0.82	
19,243.00	90.76	178.58	10,717.70	-8,427.23	976.94	8,481.67	0.67	-0.29	
19,338.00	90.73	179.43	10,716.46	-8,522.21	978.59	8,576.38	0.90	-0.03	
19,433.00	89.05	179.01	10,716.64	-8,617.20	979.89	8,671.08	1.82	-1.77	
19,528.00	90.17	179.76	10,717.29	-8,712.19	980.90	8,765.74	1.42	1.18	
19,623.00	90.56	180.05	10,716.68	-8,807.18	981.06	8,860.34	0.51	0.41	
19,718.00	91.18	180.11	10,715.24	-8,902.17	980.93	8,954.90	0.66	0.65	
19,813.00	90.53	181.32	10,713.82	-8,997.15	979.74	9,049.35	1.45	-0.68	
19,908.00	91.26	181.32	10,712.34	-9,092.12	977.56	9,143.69	0.77	0.77	
20,002.00	89.44	182.54	10,711.77	-9,186.05	974.39	9,236.92	2.33	-1.94	
20,097.00	88.06	182.95	10,713.84	-9,280.92	969.84	9,330.95	1.52	-1.45	
20,192.00	88.29	182.98	10,716.86	-9,375.74	964.93	9,424.90	0.24	0.24	
20,287.00	89.44	182.44	10,718.75	-9,470.62	960.44	9,518.93	1.34	1.21	
20,382.00	89.33	181.96	10,719.77	-9,565.54	956.79	9,613.10	0.52	-0.12	
20,477.00	89.08	181.75	10,721.08	-9,660.48	953.72	9,707.34	0.34	-0.26	
20,572.00	89.66	181.12	10,722.13	-9,755.45	951.34	9,801.66	0.90	0.61	
20,667.00	87.20	179.04	10,724.73	-9,850.40	951.21	9,896.19	3.39	-2.59	

Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
20,761.00	89.41	180.22	10,727.51	-9,944.35	951.81	9,989.78	2.66	2.35	
20,823.00	90.50	179.85	10,727.56	-10,006.35	951.77	10,051.50	1.86	1.76	
20,926.00	89.44	178.15	10,727.61	-10,109.33	953.57	10,154.20	1.95	-1.03	FINAL SURVEY @ 20926'
20,985.00	89.44	178.15	10,728.19	-10,168.29	955.48	10,213.08	0.00	0.00	PROJECTION TO TD @ 20985'

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,752.00	8,668.46	220.82	898.36	FIRST SURVEY @ 8752'
20,926.00	10,727.61	-10,109.33	953.57	FINAL SURVEY @ 20926'
20,985.00	10,728.19	-10,168.29	955.48	PROJECTION TO TD @ 20985'

Checked By: _____ Approved By: _____ Date: _____

Kaiser-Francis Oil Company

Kaiser-Francis Oil Co.

Lea County, NM (NAD 83)

SEC 31, T25S, R33E

RED HILLS 205H

OH

Design: FINAL

Survey Report - Geographic

08 September, 2020



Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users 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:	398,519.12 usft
From:	Map	Easting:	764,980.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.780 N
		Longitude:	103° 36' 40.148 W
		Grid Convergence:	0.38 °

Well	RED HILLS 205H		
Well Position	+N/-S	0.00 usft	Northing: 398,519.12 usft
	+E/-W	0.00 usft	Easting: 764,980.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 36.780 N
		Longitude:	103° 36' 40.148 W
		Ground Level:	3,410.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/4/2020	6.50	59.67	47,627.50000000

Design	FINAL				
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	174.63	

Survey Program	Date	9/8/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
241.00	8,688.00	SB DIRECTIONAL (OH)	MWD+HDGM	OWSG MWD + HDGM	
8,752.00	20,985.00	GT MWD (OH)	MWD+HDGM	OWSG MWD + HDGM	

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	398,519.12	764,980.00	32° 5' 36.780 N	103° 36' 40.148 W	
241.00	0.57	144.00	241.00	-0.97	0.70	398,518.15	764,980.70	32° 5' 36.770 N	103° 36' 40.140 W	
331.00	0.84	148.66	330.99	-1.90	1.31	398,517.22	764,981.31	32° 5' 36.761 N	103° 36' 40.133 W	
421.00	0.62	173.89	420.98	-2.94	1.71	398,516.18	764,981.70	32° 5' 36.750 N	103° 36' 40.129 W	
512.00	0.44	170.90	511.98	-3.78	1.81	398,515.34	764,981.81	32° 5' 36.742 N	103° 36' 40.128 W	
602.00	0.48	205.70	601.98	-4.46	1.70	398,514.66	764,981.70	32° 5' 36.735 N	103° 36' 40.129 W	
693.00	0.53	213.26	692.97	-5.15	1.31	398,513.96	764,981.31	32° 5' 36.729 N	103° 36' 40.133 W	
784.00	0.53	221.00	783.97	-5.82	0.80	398,513.30	764,980.80	32° 5' 36.722 N	103° 36' 40.139 W	
875.00	0.48	193.84	874.96	-6.51	0.43	398,512.61	764,980.43	32° 5' 36.715 N	103° 36' 40.144 W	
961.00	0.66	239.89	960.96	-7.11	-0.08	398,512.01	764,979.92	32° 5' 36.709 N	103° 36' 40.150 W	
1,056.00	1.36	261.43	1,055.95	-7.55	-1.67	398,511.57	764,978.33	32° 5' 36.705 N	103° 36' 40.168 W	

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,148.00	1.19	249.56	1,147.92	-8.05	-3.64	398,511.07	764,976.35	32° 5' 36.700 N	103° 36' 40.191 W
1,239.00	0.48	154.20	1,238.92	-8.72	-4.36	398,510.40	764,975.63	32° 5' 36.694 N	103° 36' 40.200 W
1,331.00	1.49	64.73	1,330.90	-8.56	-3.11	398,510.56	764,976.88	32° 5' 36.695 N	103° 36' 40.185 W
1,422.00	2.15	57.70	1,421.86	-7.14	-0.60	398,511.98	764,979.40	32° 5' 36.709 N	103° 36' 40.156 W
1,513.00	3.69	67.28	1,512.74	-5.10	3.54	398,514.02	764,983.54	32° 5' 36.729 N	103° 36' 40.108 W
1,607.00	6.29	73.60	1,606.37	-2.47	11.27	398,516.64	764,991.27	32° 5' 36.754 N	103° 36' 40.017 W
1,702.00	7.60	72.73	1,700.67	0.86	22.27	398,519.98	765,002.26	32° 5' 36.787 N	103° 36' 39.889 W
1,796.00	9.10	72.02	1,793.68	5.00	35.27	398,524.12	765,015.27	32° 5' 36.827 N	103° 36' 39.738 W
1,891.00	8.92	72.55	1,887.50	9.53	49.45	398,528.65	765,029.44	32° 5' 36.871 N	103° 36' 39.573 W
1,985.00	9.85	72.02	1,980.24	14.19	64.05	398,533.31	765,044.04	32° 5' 36.916 N	103° 36' 39.403 W
2,080.00	9.67	71.93	2,073.87	19.18	79.36	398,538.30	765,059.36	32° 5' 36.964 N	103° 36' 39.224 W
2,174.00	10.86	75.10	2,166.36	23.90	95.42	398,543.02	765,075.42	32° 5' 37.010 N	103° 36' 39.037 W
2,269.00	10.86	76.86	2,259.66	28.24	112.79	398,547.36	765,092.78	32° 5' 37.052 N	103° 36' 38.835 W
2,363.00	11.91	73.52	2,351.81	33.00	130.71	398,552.12	765,110.71	32° 5' 37.098 N	103° 36' 38.626 W
2,457.00	11.96	74.31	2,443.78	38.39	149.39	398,557.51	765,129.39	32° 5' 37.150 N	103° 36' 38.409 W
2,552.00	11.82	74.92	2,536.74	43.58	168.26	398,562.70	765,148.26	32° 5' 37.200 N	103° 36' 38.189 W
2,646.00	11.56	75.19	2,628.79	48.50	186.66	398,567.61	765,166.66	32° 5' 37.247 N	103° 36' 37.975 W
2,741.00	11.25	74.13	2,721.92	53.46	204.78	398,572.58	765,184.78	32° 5' 37.295 N	103° 36' 37.764 W
2,835.00	11.52	72.11	2,814.07	58.85	222.53	398,577.97	765,202.53	32° 5' 37.347 N	103° 36' 37.557 W
2,929.00	11.87	72.20	2,906.12	64.69	240.67	398,583.81	765,220.67	32° 5' 37.404 N	103° 36' 37.346 W
3,024.00	11.91	72.37	2,999.08	70.65	259.31	398,589.77	765,239.31	32° 5' 37.462 N	103° 36' 37.128 W
3,119.00	11.56	72.02	3,092.09	76.56	277.71	398,595.67	765,257.71	32° 5' 37.519 N	103° 36' 36.914 W
3,213.00	11.47	70.88	3,184.20	82.52	295.50	398,601.64	765,275.50	32° 5' 37.577 N	103° 36' 36.707 W
3,307.00	11.52	72.02	3,276.31	88.48	313.26	398,607.60	765,293.26	32° 5' 37.634 N	103° 36' 36.500 W
3,402.00	11.82	69.56	3,369.35	94.81	331.40	398,613.93	765,311.40	32° 5' 37.696 N	103° 36' 36.289 W
3,497.00	12.18	68.77	3,462.28	101.84	349.86	398,620.95	765,329.85	32° 5' 37.764 N	103° 36' 36.074 W
3,591.00	12.40	67.54	3,554.12	109.28	368.43	398,628.40	765,348.42	32° 5' 37.837 N	103° 36' 35.857 W
3,686.00	12.40	67.54	3,646.91	117.08	387.28	398,636.19	765,367.28	32° 5' 37.913 N	103° 36' 35.637 W
3,780.00	11.96	66.84	3,738.79	124.76	405.56	398,643.88	765,385.56	32° 5' 37.987 N	103° 36' 35.424 W
3,874.00	11.69	66.49	3,830.79	132.39	423.25	398,651.51	765,403.25	32° 5' 38.062 N	103° 36' 35.218 W
3,969.00	10.90	66.84	3,923.95	139.76	440.33	398,658.88	765,420.33	32° 5' 38.134 N	103° 36' 35.019 W
4,064.00	10.20	66.57	4,017.35	146.64	456.31	398,665.76	765,436.31	32° 5' 38.200 N	103° 36' 34.833 W
4,159.00	9.58	65.43	4,110.93	153.27	471.22	398,672.39	765,451.21	32° 5' 38.265 N	103° 36' 34.659 W
4,253.00	9.32	65.96	4,203.66	159.63	485.28	398,678.75	765,465.28	32° 5' 38.327 N	103° 36' 34.495 W
4,348.00	9.63	69.12	4,297.36	165.59	499.73	398,684.71	765,479.73	32° 5' 38.385 N	103° 36' 34.326 W
4,442.00	8.75	71.58	4,390.16	170.65	513.86	398,689.77	765,493.86	32° 5' 38.434 N	103° 36' 34.162 W
4,535.00	8.48	75.71	4,482.11	174.58	527.22	398,693.70	765,507.22	32° 5' 38.472 N	103° 36' 34.006 W
4,630.00	8.97	80.46	4,576.01	177.54	541.31	398,696.66	765,521.31	32° 5' 38.501 N	103° 36' 33.842 W
4,724.00	8.70	79.32	4,668.89	180.07	555.52	398,699.19	765,535.52	32° 5' 38.525 N	103° 36' 33.677 W
4,789.00	8.04	79.14	4,733.20	181.84	564.82	398,700.96	765,544.81	32° 5' 38.542 N	103° 36' 33.569 W
4,902.00	7.43	80.98	4,845.17	184.47	579.79	398,703.59	765,559.79	32° 5' 38.567 N	103° 36' 33.394 W
4,997.00	6.99	78.87	4,939.42	186.55	591.53	398,705.67	765,571.53	32° 5' 38.586 N	103° 36' 33.258 W
5,092.00	8.44	80.36	5,033.56	188.83	604.08	398,707.95	765,584.08	32° 5' 38.608 N	103° 36' 33.112 W
5,186.00	9.45	81.77	5,126.42	191.09	618.52	398,710.21	765,598.51	32° 5' 38.630 N	103° 36' 32.944 W
5,280.00	9.89	83.26	5,219.08	193.15	634.17	398,712.26	765,614.17	32° 5' 38.649 N	103° 36' 32.761 W
5,375.00	10.20	83.61	5,312.62	195.04	650.63	398,714.16	765,630.63	32° 5' 38.667 N	103° 36' 32.570 W
5,469.00	10.73	83.09	5,405.06	197.02	667.59	398,716.14	765,647.59	32° 5' 38.685 N	103° 36' 32.373 W
5,564.00	10.77	82.21	5,498.39	199.29	685.17	398,718.40	765,665.16	32° 5' 38.706 N	103° 36' 32.168 W
5,658.00	10.73	81.50	5,590.74	201.77	702.52	398,720.89	765,682.52	32° 5' 38.730 N	103° 36' 31.966 W
5,753.00	10.81	81.06	5,684.07	204.46	720.07	398,723.58	765,700.07	32° 5' 38.755 N	103° 36' 31.762 W
5,847.00	10.59	80.89	5,776.43	207.20	737.30	398,726.32	765,717.30	32° 5' 38.781 N	103° 36' 31.562 W
5,942.00	9.80	79.83	5,869.93	210.01	753.88	398,729.13	765,733.88	32° 5' 38.808 N	103° 36' 31.369 W
6,037.00	9.36	79.22	5,963.61	212.88	769.43	398,732.00	765,749.43	32° 5' 38.835 N	103° 36' 31.188 W
6,131.00	9.32	79.13	6,056.36	215.75	784.41	398,734.87	765,764.41	32° 5' 38.863 N	103° 36' 31.013 W
6,226.00	9.19	78.69	6,150.13	218.68	799.41	398,737.80	765,779.40	32° 5' 38.891 N	103° 36' 30.839 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,321.00	9.80	78.69	6,243.82	221.76	814.77	398,740.88	765,794.77	32° 5' 38.920 N	103° 36' 30.660 W
6,416.00	9.54	84.84	6,337.48	224.05	830.54	398,743.17	765,810.54	32° 5' 38.942 N	103° 36' 30.476 W
6,511.00	8.22	93.81	6,431.34	224.31	845.16	398,743.43	765,825.16	32° 5' 38.943 N	103° 36' 30.306 W
6,605.00	8.22	91.88	6,524.37	223.64	858.58	398,742.76	765,838.58	32° 5' 38.936 N	103° 36' 30.150 W
6,700.00	6.95	96.89	6,618.54	222.73	871.08	398,741.85	765,851.07	32° 5' 38.926 N	103° 36' 30.005 W
6,795.00	6.20	93.90	6,712.92	221.69	881.90	398,740.81	765,861.90	32° 5' 38.915 N	103° 36' 29.880 W
6,890.00	5.32	96.18	6,807.44	220.87	891.40	398,739.99	765,871.39	32° 5' 38.906 N	103° 36' 29.769 W
6,984.00	4.53	90.91	6,901.09	220.34	899.44	398,739.46	765,879.44	32° 5' 38.900 N	103° 36' 29.676 W
7,079.00	3.38	98.56	6,995.86	219.86	905.96	398,738.98	765,885.96	32° 5' 38.895 N	103° 36' 29.600 W
7,174.00	2.51	119.03	7,090.74	218.44	910.55	398,737.56	765,890.55	32° 5' 38.881 N	103° 36' 29.547 W
7,268.00	2.07	127.38	7,184.66	216.41	913.70	398,735.53	765,893.70	32° 5' 38.860 N	103° 36' 29.510 W
7,363.00	0.35	90.56	7,279.64	215.36	915.35	398,734.48	765,895.35	32° 5' 38.850 N	103° 36' 29.491 W
7,458.00	1.23	316.61	7,374.63	216.10	914.94	398,735.22	765,894.94	32° 5' 38.857 N	103° 36' 29.496 W
7,552.00	1.01	317.49	7,468.62	217.44	913.69	398,736.56	765,893.69	32° 5' 38.871 N	103° 36' 29.510 W
7,646.00	0.97	316.08	7,562.60	218.63	912.58	398,737.75	765,892.58	32° 5' 38.883 N	103° 36' 29.523 W
7,740.00	0.84	316.61	7,656.59	219.70	911.55	398,738.82	765,891.55	32° 5' 38.893 N	103° 36' 29.535 W
7,834.00	0.92	311.51	7,750.58	220.70	910.51	398,739.82	765,890.51	32° 5' 38.903 N	103° 36' 29.547 W
7,928.00	0.97	302.90	7,844.57	221.64	909.28	398,740.75	765,889.28	32° 5' 38.912 N	103° 36' 29.561 W
8,023.00	0.79	302.20	7,939.55	222.42	908.05	398,741.54	765,888.05	32° 5' 38.920 N	103° 36' 29.575 W
8,121.00	0.79	292.27	8,037.55	223.04	906.86	398,742.16	765,886.85	32° 5' 38.927 N	103° 36' 29.589 W
8,215.00	0.70	277.59	8,131.54	223.36	905.69	398,742.48	765,885.68	32° 5' 38.930 N	103° 36' 29.603 W
8,310.00	0.79	270.38	8,226.53	223.44	904.46	398,742.56	765,884.45	32° 5' 38.931 N	103° 36' 29.617 W
8,404.00	1.10	246.39	8,320.52	223.08	902.98	398,742.20	765,882.98	32° 5' 38.927 N	103° 36' 29.634 W
8,499.00	1.32	231.18	8,415.50	222.03	901.29	398,741.15	765,881.29	32° 5' 38.917 N	103° 36' 29.654 W
8,594.00	1.36	229.16	8,510.47	220.61	899.59	398,739.73	765,879.59	32° 5' 38.903 N	103° 36' 29.674 W
8,688.00	0.53	336.30	8,604.46	220.28	898.57	398,739.40	765,878.57	32° 5' 38.900 N	103° 36' 29.686 W
8,752.00	0.52	342.08	8,668.46	220.82	898.36	398,739.94	765,878.36	32° 5' 38.905 N	103° 36' 29.688 W
FIRST SURVEY @ 8752'									
8,847.00	0.63	338.65	8,763.45	221.72	898.04	398,740.84	765,878.04	32° 5' 38.914 N	103° 36' 29.692 W
8,942.00	0.18	338.66	8,858.45	222.35	897.79	398,741.47	765,877.79	32° 5' 38.920 N	103° 36' 29.695 W
9,037.00	0.14	358.52	8,953.45	222.60	897.74	398,741.72	765,877.73	32° 5' 38.923 N	103° 36' 29.695 W
9,132.00	0.38	296.29	9,048.45	222.86	897.45	398,741.98	765,877.45	32° 5' 38.925 N	103° 36' 29.699 W
9,227.00	0.58	82.51	9,143.45	223.06	897.65	398,742.18	765,877.64	32° 5' 38.927 N	103° 36' 29.696 W
9,322.00	0.91	63.61	9,238.44	223.46	898.80	398,742.58	765,878.80	32° 5' 38.931 N	103° 36' 29.683 W
9,417.00	1.21	42.31	9,333.42	224.53	900.15	398,743.65	765,880.15	32° 5' 38.942 N	103° 36' 29.667 W
9,512.00	2.39	32.67	9,428.38	226.94	901.89	398,746.06	765,881.89	32° 5' 38.966 N	103° 36' 29.647 W
9,606.00	2.25	15.80	9,522.30	230.37	903.45	398,749.49	765,883.45	32° 5' 38.999 N	103° 36' 29.628 W
9,701.00	1.07	76.94	9,617.26	232.36	904.83	398,751.48	765,884.82	32° 5' 39.019 N	103° 36' 29.612 W
9,796.00	0.50	31.62	9,712.26	232.92	905.91	398,752.04	765,885.90	32° 5' 39.024 N	103° 36' 29.600 W
9,891.00	0.70	153.52	9,807.25	232.75	906.38	398,751.87	765,886.38	32° 5' 39.023 N	103° 36' 29.594 W
9,986.00	2.27	151.61	9,902.22	230.58	907.54	398,749.70	765,887.53	32° 5' 39.001 N	103° 36' 29.581 W
10,057.00	2.32	154.48	9,973.16	228.04	908.82	398,747.16	765,888.82	32° 5' 38.976 N	103° 36' 29.566 W
10,105.00	2.36	158.89	10,021.12	226.24	909.60	398,745.36	765,889.60	32° 5' 38.958 N	103° 36' 29.557 W
10,200.00	11.16	188.63	10,115.38	215.31	908.92	398,734.43	765,888.92	32° 5' 38.850 N	103° 36' 29.566 W
10,295.00	14.57	183.32	10,207.99	194.28	906.85	398,713.40	765,886.85	32° 5' 38.642 N	103° 36' 29.592 W
10,390.00	19.13	174.73	10,298.90	166.83	907.59	398,685.95	765,887.59	32° 5' 38.370 N	103° 36' 29.585 W
10,485.00	26.20	181.52	10,386.52	130.31	908.46	398,649.43	765,888.46	32° 5' 38.009 N	103° 36' 29.578 W
10,580.00	29.53	196.99	10,470.61	86.89	901.05	398,606.01	765,881.05	32° 5' 37.580 N	103° 36' 29.667 W
10,675.00	37.67	193.20	10,549.68	36.15	887.56	398,555.27	765,867.56	32° 5' 37.078 N	103° 36' 29.828 W
10,770.00	46.27	193.57	10,620.24	-25.59	872.85	398,493.53	765,852.85	32° 5' 36.468 N	103° 36' 30.004 W
10,865.00	54.98	193.91	10,680.45	-96.86	855.41	398,422.26	765,835.41	32° 5' 35.764 N	103° 36' 30.212 W
10,959.00	65.81	191.19	10,726.83	-176.52	837.78	398,342.59	765,817.78	32° 5' 34.977 N	103° 36' 30.423 W
11,054.00	73.69	190.46	10,759.68	-264.00	821.07	398,255.12	765,801.07	32° 5' 34.113 N	103° 36' 30.625 W
11,149.00	82.86	191.01	10,778.97	-355.29	803.76	398,163.83	765,783.75	32° 5' 33.211 N	103° 36' 30.833 W
11,215.00	89.89	191.33	10,783.14	-419.87	791.00	398,099.25	765,771.00	32° 5' 32.572 N	103° 36' 30.986 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,244.00	92.89	190.76	10,782.43	-448.32	785.45	398,070.80	765,765.45	32° 5' 32.291 N	103° 36' 31.053 W
11,291.00	96.20	186.91	10,778.71	-494.60	778.25	398,024.52	765,758.25	32° 5' 31.834 N	103° 36' 31.140 W
11,339.00	98.12	181.70	10,772.72	-542.07	774.68	397,977.05	765,754.67	32° 5' 31.364 N	103° 36' 31.186 W
11,386.00	98.32	180.17	10,766.00	-588.58	773.92	397,930.54	765,753.91	32° 5' 30.904 N	103° 36' 31.198 W
11,434.00	95.58	179.10	10,760.20	-636.22	774.22	397,882.90	765,754.22	32° 5' 30.433 N	103° 36' 31.198 W
11,481.00	93.98	179.04	10,756.28	-683.05	774.98	397,836.07	765,754.98	32° 5' 29.969 N	103° 36' 31.193 W
11,528.00	93.70	179.07	10,753.13	-729.94	775.75	397,789.18	765,755.75	32° 5' 29.505 N	103° 36' 31.188 W
11,623.00	93.26	178.99	10,747.36	-824.75	777.36	397,694.37	765,757.36	32° 5' 28.567 N	103° 36' 31.177 W
11,718.00	93.45	179.20	10,741.81	-919.58	778.86	397,599.54	765,758.86	32° 5' 27.628 N	103° 36' 31.166 W
11,813.00	92.30	176.80	10,737.04	-1,014.39	782.17	397,504.73	765,762.17	32° 5' 26.690 N	103° 36' 31.135 W
11,908.00	92.78	176.71	10,732.83	-1,109.14	787.54	397,409.97	765,767.54	32° 5' 25.752 N	103° 36' 31.080 W
12,002.00	88.66	176.48	10,731.65	-1,202.95	793.12	397,316.17	765,773.12	32° 5' 24.823 N	103° 36' 31.023 W
12,097.00	87.31	176.15	10,734.99	-1,297.69	799.23	397,221.43	765,779.22	32° 5' 23.885 N	103° 36' 30.959 W
12,192.00	86.44	176.55	10,740.17	-1,392.36	805.26	397,126.76	765,785.26	32° 5' 22.948 N	103° 36' 30.896 W
12,287.00	88.15	176.48	10,744.65	-1,487.07	811.03	397,032.04	765,791.03	32° 5' 22.011 N	103° 36' 30.837 W
12,381.00	88.46	177.11	10,747.43	-1,580.89	816.29	396,938.23	765,796.28	32° 5' 21.082 N	103° 36' 30.783 W
12,476.00	88.15	176.43	10,750.24	-1,675.69	821.64	396,843.43	765,801.63	32° 5' 20.143 N	103° 36' 30.728 W
12,571.00	87.28	176.04	10,754.03	-1,770.41	827.87	396,748.71	765,807.87	32° 5' 19.206 N	103° 36' 30.663 W
12,666.00	86.78	175.94	10,758.95	-1,865.05	834.50	396,654.07	765,814.50	32° 5' 18.269 N	103° 36' 30.594 W
12,761.00	87.92	176.39	10,763.34	-1,959.73	840.85	396,559.38	765,820.85	32° 5' 17.331 N	103° 36' 30.527 W
12,855.00	88.37	176.26	10,766.39	-2,053.49	846.87	396,465.63	765,826.87	32° 5' 16.403 N	103° 36' 30.464 W
12,950.00	87.81	175.23	10,769.55	-2,148.18	853.92	396,370.94	765,833.91	32° 5' 15.466 N	103° 36' 30.390 W
13,045.00	87.48	174.24	10,773.46	-2,242.69	862.63	396,276.43	765,842.62	32° 5' 14.530 N	103° 36' 30.296 W
13,140.00	88.71	174.01	10,776.61	-2,337.14	872.34	396,181.98	765,852.34	32° 5' 13.595 N	103° 36' 30.191 W
13,235.00	89.66	175.12	10,777.97	-2,431.70	881.34	396,087.42	765,861.34	32° 5' 12.658 N	103° 36' 30.093 W
13,330.00	90.20	174.05	10,778.08	-2,526.28	890.31	395,992.84	765,870.30	32° 5' 11.722 N	103° 36' 29.997 W
13,425.00	91.46	173.72	10,776.71	-2,620.72	900.42	395,898.40	765,880.42	32° 5' 10.787 N	103° 36' 29.886 W
13,519.00	90.95	172.94	10,774.73	-2,714.07	911.34	395,805.05	765,891.34	32° 5' 9.862 N	103° 36' 29.767 W
13,614.00	90.84	173.16	10,773.24	-2,808.36	922.83	395,710.76	765,902.83	32° 5' 8.928 N	103° 36' 29.641 W
13,709.00	91.01	172.98	10,771.71	-2,902.65	934.30	395,616.47	765,914.29	32° 5' 7.995 N	103° 36' 29.515 W
13,804.00	90.50	174.27	10,770.46	-2,997.05	944.84	395,522.07	765,924.84	32° 5' 7.060 N	103° 36' 29.399 W
13,899.00	91.68	176.01	10,768.65	-3,091.69	952.89	395,427.43	765,932.89	32° 5' 6.123 N	103° 36' 29.313 W
13,930.00	91.80	175.18	10,767.71	-3,122.58	955.27	395,396.54	765,935.27	32° 5' 5.817 N	103° 36' 29.288 W
14,025.00	91.63	175.39	10,764.87	-3,217.22	963.07	395,301.90	765,943.07	32° 5' 4.880 N	103° 36' 29.205 W
14,120.00	90.62	175.18	10,763.00	-3,311.88	970.88	395,207.24	765,950.88	32° 5' 3.943 N	103° 36' 29.121 W
14,215.00	87.50	178.50	10,764.56	-3,406.69	976.12	395,112.42	765,956.12	32° 5' 3.004 N	103° 36' 29.068 W
14,310.00	86.01	179.60	10,769.94	-3,501.52	977.69	395,017.59	765,957.69	32° 5' 2.065 N	103° 36' 29.057 W
14,405.00	87.28	180.04	10,775.50	-3,596.36	977.99	394,922.76	765,957.99	32° 5' 1.127 N	103° 36' 29.061 W
14,500.00	88.01	180.82	10,779.40	-3,691.27	977.28	394,827.84	765,957.27	32° 5' 0.188 N	103° 36' 29.077 W
14,594.00	89.10	181.24	10,781.77	-3,785.23	975.59	394,733.89	765,955.58	32° 4' 59.258 N	103° 36' 29.104 W
14,689.00	90.22	184.61	10,782.34	-3,880.09	970.74	394,639.03	765,950.74	32° 4' 58.320 N	103° 36' 29.167 W
14,784.00	90.20	184.04	10,781.99	-3,974.82	963.58	394,544.30	765,943.57	32° 4' 57.383 N	103° 36' 29.258 W
14,879.00	92.24	182.62	10,779.97	-4,069.63	958.06	394,449.49	765,938.06	32° 4' 56.445 N	103° 36' 29.330 W
14,973.00	92.44	182.04	10,776.13	-4,163.47	954.24	394,355.65	765,934.24	32° 4' 55.517 N	103° 36' 29.381 W
15,068.00	92.69	182.17	10,771.88	-4,258.31	950.75	394,260.81	765,930.75	32° 4' 54.578 N	103° 36' 29.429 W
15,163.00	91.68	181.27	10,768.25	-4,353.20	947.91	394,165.92	765,927.90	32° 4' 53.640 N	103° 36' 29.470 W
15,258.00	91.90	181.67	10,765.29	-4,448.12	945.47	394,071.00	765,925.47	32° 4' 52.701 N	103° 36' 29.506 W
15,353.00	91.66	181.80	10,762.34	-4,543.03	942.59	393,976.09	765,922.59	32° 4' 51.762 N	103° 36' 29.546 W
15,447.00	90.87	181.59	10,760.26	-4,636.96	939.82	393,882.15	765,919.81	32° 4' 50.832 N	103° 36' 29.586 W
15,542.00	90.84	177.23	10,758.84	-4,731.93	940.79	393,787.19	765,920.79	32° 4' 49.893 N	103° 36' 29.582 W
15,637.00	91.82	182.41	10,756.64	-4,826.87	941.09	393,692.25	765,921.09	32° 4' 48.953 N	103° 36' 29.586 W
15,732.00	92.04	182.15	10,753.44	-4,921.74	937.31	393,597.38	765,917.31	32° 4' 48.014 N	103° 36' 29.637 W
15,827.00	92.94	182.13	10,749.31	-5,016.58	933.77	393,502.54	765,913.77	32° 4' 47.076 N	103° 36' 29.686 W
15,922.00	93.36	181.73	10,744.09	-5,111.38	930.58	393,407.74	765,910.57	32° 4' 46.138 N	103° 36' 29.730 W
16,017.00	93.59	182.56	10,738.33	-5,206.14	927.03	393,312.98	765,907.02	32° 4' 45.201 N	103° 36' 29.779 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,111.00	93.87	182.57	10,732.22	-5,299.85	922.83	393,219.27	765,902.83	32° 4' 44.274 N	103° 36' 29.835 W
16,206.00	92.88	184.02	10,726.62	-5,394.52	917.38	393,124.60	765,897.38	32° 4' 43.337 N	103° 36' 29.906 W
16,301.00	93.45	184.86	10,721.38	-5,489.09	910.04	393,030.03	765,890.03	32° 4' 42.402 N	103° 36' 29.999 W
16,396.00	89.44	184.62	10,718.98	-5,583.72	902.19	392,935.40	765,882.19	32° 4' 41.466 N	103° 36' 30.097 W
16,491.00	87.87	180.52	10,721.21	-5,678.57	897.93	392,840.55	765,877.93	32° 4' 40.528 N	103° 36' 30.154 W
16,586.00	87.03	180.13	10,725.44	-5,773.48	897.39	392,745.64	765,877.39	32° 4' 39.589 N	103° 36' 30.168 W
16,681.00	85.99	179.93	10,731.22	-5,868.30	897.34	392,650.82	765,877.34	32° 4' 38.650 N	103° 36' 30.176 W
16,776.00	87.17	180.03	10,736.89	-5,963.13	897.38	392,555.99	765,877.37	32° 4' 37.712 N	103° 36' 30.183 W
16,871.00	87.23	179.09	10,741.53	-6,058.01	898.10	392,461.11	765,878.10	32° 4' 36.773 N	103° 36' 30.182 W
16,965.00	87.45	178.64	10,745.89	-6,151.89	899.96	392,367.23	765,879.96	32° 4' 35.844 N	103° 36' 30.168 W
17,060.00	87.25	178.22	10,750.28	-6,246.75	902.56	392,272.37	765,882.56	32° 4' 34.905 N	103° 36' 30.145 W
17,155.00	87.00	178.11	10,755.05	-6,341.58	905.60	392,177.54	765,885.60	32° 4' 33.966 N	103° 36' 30.117 W
17,250.00	88.32	178.25	10,758.93	-6,436.45	908.62	392,082.66	765,888.61	32° 4' 33.027 N	103° 36' 30.089 W
17,345.00	90.34	178.24	10,760.04	-6,531.40	911.53	391,987.72	765,891.52	32° 4' 32.088 N	103° 36' 30.063 W
17,440.00	92.52	177.16	10,757.67	-6,626.29	915.34	391,892.83	765,895.33	32° 4' 31.149 N	103° 36' 30.026 W
17,535.00	91.46	176.97	10,754.37	-6,721.10	920.20	391,798.02	765,900.19	32° 4' 30.210 N	103° 36' 29.977 W
17,630.00	90.31	176.83	10,752.90	-6,815.95	925.33	391,703.17	765,905.33	32° 4' 29.271 N	103° 36' 29.925 W
17,725.00	91.54	178.00	10,751.37	-6,910.84	929.62	391,608.28	765,909.62	32° 4' 28.332 N	103° 36' 29.882 W
17,820.00	91.85	178.54	10,748.56	-7,005.75	932.49	391,513.37	765,912.48	32° 4' 27.392 N	103° 36' 29.856 W
17,915.00	91.77	178.70	10,745.56	-7,100.68	934.77	391,418.44	765,914.77	32° 4' 26.453 N	103° 36' 29.837 W
18,010.00	91.88	178.07	10,742.53	-7,195.59	937.45	391,323.53	765,917.45	32° 4' 25.514 N	103° 36' 29.813 W
18,105.00	92.41	178.05	10,738.98	-7,290.47	940.66	391,228.65	765,920.66	32° 4' 24.574 N	103° 36' 29.783 W
18,200.00	92.46	178.15	10,734.94	-7,385.33	943.81	391,133.79	765,923.81	32° 4' 23.636 N	103° 36' 29.754 W
18,294.00	91.85	177.58	10,731.41	-7,479.20	947.31	391,039.92	765,927.31	32° 4' 22.706 N	103° 36' 29.721 W
18,389.00	92.55	177.61	10,727.76	-7,574.05	951.29	390,945.07	765,931.29	32° 4' 21.768 N	103° 36' 29.682 W
18,484.00	93.39	178.11	10,722.84	-7,668.85	954.83	390,850.27	765,934.83	32° 4' 20.829 N	103° 36' 29.648 W
18,579.00	91.82	178.60	10,718.52	-7,763.71	957.56	390,755.41	765,937.56	32° 4' 19.890 N	103° 36' 29.624 W
18,674.00	88.12	177.69	10,718.57	-7,858.64	960.63	390,660.48	765,940.63	32° 4' 18.951 N	103° 36' 29.596 W
18,769.00	88.01	177.40	10,721.78	-7,953.50	964.70	390,565.62	765,944.70	32° 4' 18.012 N	103° 36' 29.556 W
18,864.00	89.47	178.08	10,723.87	-8,048.40	968.45	390,470.72	765,948.44	32° 4' 17.072 N	103° 36' 29.520 W
18,959.00	90.76	178.67	10,723.68	-8,143.36	971.14	390,375.76	765,951.14	32° 4' 16.133 N	103° 36' 29.496 W
19,053.00	91.82	178.71	10,721.56	-8,237.31	973.29	390,281.81	765,953.28	32° 4' 15.203 N	103° 36' 29.478 W
19,148.00	91.04	179.15	10,719.19	-8,332.26	975.06	390,186.86	765,955.06	32° 4' 14.263 N	103° 36' 29.465 W
19,243.00	90.76	178.58	10,717.70	-8,427.23	976.94	390,091.89	765,956.94	32° 4' 13.323 N	103° 36' 29.451 W
19,338.00	90.73	179.43	10,716.46	-8,522.21	978.59	389,996.91	765,958.59	32° 4' 12.383 N	103° 36' 29.439 W
19,433.00	89.05	179.01	10,716.64	-8,617.20	979.89	389,901.92	765,959.88	32° 4' 11.443 N	103° 36' 29.431 W
19,528.00	90.17	179.76	10,717.29	-8,712.19	980.90	389,806.93	765,960.90	32° 4' 10.503 N	103° 36' 29.427 W
19,623.00	90.56	180.05	10,716.68	-8,807.18	981.06	389,711.93	765,961.06	32° 4' 9.563 N	103° 36' 29.432 W
19,718.00	91.18	180.11	10,715.24	-8,902.17	980.93	389,616.95	765,960.93	32° 4' 8.623 N	103° 36' 29.441 W
19,813.00	90.53	181.32	10,713.82	-8,997.15	979.74	389,521.97	765,959.74	32° 4' 7.683 N	103° 36' 29.463 W
19,908.00	91.26	181.32	10,712.34	-9,092.12	977.56	389,427.00	765,957.55	32° 4' 6.744 N	103° 36' 29.495 W
20,002.00	89.44	182.54	10,711.77	-9,186.05	974.39	389,333.06	765,954.39	32° 4' 5.814 N	103° 36' 29.540 W
20,097.00	88.06	182.95	10,713.84	-9,280.92	969.84	389,238.20	765,949.84	32° 4' 4.876 N	103° 36' 29.600 W
20,192.00	88.29	182.98	10,716.86	-9,375.74	964.93	389,143.37	765,944.93	32° 4' 3.938 N	103° 36' 29.664 W
20,287.00	89.44	182.44	10,718.75	-9,470.62	960.44	389,048.50	765,940.44	32° 4' 2.999 N	103° 36' 29.724 W
20,382.00	89.33	181.96	10,719.77	-9,565.54	956.79	388,953.58	765,936.79	32° 4' 2.060 N	103° 36' 29.774 W
20,477.00	89.08	181.75	10,721.08	-9,660.48	953.72	388,858.64	765,933.72	32° 4' 1.121 N	103° 36' 29.817 W
20,572.00	89.66	181.12	10,722.13	-9,755.45	951.34	388,763.67	765,931.34	32° 4' 0.182 N	103° 36' 29.852 W
20,667.00	87.20	179.04	10,724.73	-9,850.40	951.21	388,668.72	765,931.20	32° 3' 59.242 N	103° 36' 29.861 W
20,761.00	89.41	180.22	10,727.51	-9,944.35	951.81	388,574.77	765,931.81	32° 3' 58.312 N	103° 36' 29.861 W
20,823.00	90.50	179.85	10,727.56	-10,006.35	951.77	388,512.77	765,931.77	32° 3' 57.699 N	103° 36' 29.866 W
20,926.00	89.44	178.15	10,727.61	-10,109.33	953.57	388,409.79	765,933.57	32° 3' 56.680 N	103° 36' 29.854 W
FINAL SURVEY @ 20926'									
20,985.00	89.44	178.15	10,728.19	-10,168.29	955.48	388,350.83	765,935.47	32° 3' 56.096 N	103° 36' 29.836 W
PROJECTION TO TD @ 20985'									

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well RED HILLS 205H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3434.30usft
Site:	SEC 31, T25S, R33E	MD Reference:	23.9' KB @ 3434.30usft
Well:	RED HILLS 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,752.00	8,668.46	220.82	898.36	FIRST SURVEY @ 8752'
20,926.00	10,727.61	-10,109.33	953.57	FINAL SURVEY @ 20926'
20,985.00	10,728.19	-10,168.29	955.48	PROJECTION TO TD @ 20985'

Checked By: _____ Approved By: _____ Date: _____

Well Name: RED HILLS FEDERAL	Well Location: T25S / R33E / SEC 31 / NWNE / 32.09377 / -103.6105714	County or Parish/State: LEA / NM
Well Number: 205H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM122620	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547228	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: 01:30
Date Operation Actually Began: 09/24/2020	
Actual Procedure: Completion began __9/24/20__ Completion finished __10/16/20__ 1.MIRU WL. 2.TCP Stage 1: 20,662-20,784. Broke down perms. 3.Stage frac lateral 11,054'-20,784' in 57 stages w/394,022 bbls fluid + 25,910,338# sand. 4.Drilled out plugs w/Tri-Cone bit. well to sales.	

SR Attachments

Actual Procedure

Red_Hills_205H_WBD_20210416133010.pdf

Well Name: RED HILLS FEDERAL	Well Location: T25S / R33E / SEC 31 / NWNE / 32.09377 / -103.6105714	County or Parish/State: LEA / NM
Well Number: 205H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM122620	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547228	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 16, 2021 01:30 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: Jonathon W Shepard	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 04/29/2021
Signature: Jonathon Shepard	

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 37443

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 37443
	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
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 37443

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 37443
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit all drilling, casing, and completion sundries/reports.	8/25/2021