

Submit 1 Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-025-47228
2. Name of Operator Kaiser-Francis Oil Company		5. Indicate Type of Lease STATE ☐ FEE ☐ FED ☐
3. Address of Operator P.O. Box 21468, Tulsa, OK 74121		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>B</u> : <u>280</u> feet from the <u>North</u> line and <u>2,570</u> feet from the <u>East</u> line Section <u>31</u> Township <u>25S</u> Range <u>33E</u> NMPM County <u>Lea</u>		7. Lease Name or Unit Agreement Name Red Hills Federal
		8. Well Number 205H
		9. OGRID Number 12361
		10. Pool name or Wildcat Lower Bone Spring
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,410.4' GR		

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

NOTICE OF INTENTION TO:

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

PLUG AND ABANDON ☐
 CHANGE PLANS ☐
 MULTIPLE COMPL ☐

OTHER:

FIELD/ POOL CHANGE

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
 COMMENCE DRILLING OPNS. ☐
 CASING/CEMENT JOB ☐

ALTERING CASING ☐
 P AND A ☐

☒ OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Kaiser-Francis Oil Company respectfully requests to change the field/pool for the Red Hills 205H.

Original field/pool: [97994] WC-025 G-06 S253329D; UPR BONE SPRIN
 Requested field/pool: [97903] WC-025 G-08 S253235G; LWR BONE SPRIN

Spud Date:

3/6/21

Rig Release Date:

4/4/21

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Christina Opfer

TITLE Regulatory Manager

DATE 8/3/2022

Type or print name

Christina Opfer

E-mail address ChristinaO@kfoc.net

PHONE 918-491-4468

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47228	² Pool Code 97903	³ Pool Name WC-025 G-08 S253235G; LWR BONE SPRIN
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	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION <i>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> Christina Opfer 8/3/2022 Signature Date Christina Opfer Printed Name ChristinaO@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 4, 2021 Date of Survey  Signature and Seal of Professional Surveyor: Certificate Number: 12797	
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¹ 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

² 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

³ SURFACE LOCATION
⁴ RED HILLS 205H
ELEV. = 3410.4'
LAT. = 32.0935499°N (NAD83)
LONG. = 103.6111523°W
NMSP EAST (FT)
N = 398519.12
E = 764980.00
⁵ KICK OFF POINT
71' FNL, 1660' FEL
LAT. = 32.0941249°N
LONG. = 103.6082133°W
⁶ FIRST TAKE POINT
550' FNL, 1751' FEL
LAT. = 32.0928092°N
LONG. = 103.6085073°W
⁷ SEC. 31 AS-DRILLED
⁸ QUARTER CORNER
LAT. = 32.0797943°N
LONG. = 103.6113923°W
NMSP EAST (FT)
N = 393514.54
E = 764939.16
⁹ LATITUDE AND LONGITUDE VALUES ARE NAD 83
STATE PLANE VALUES ARE NMSP EAST GRID
¹⁰ SEC. 6
¹¹ LAST TAKE POINT
399' FSL, 1687' FEL
LAT. = 32.0663926°N
LONG. = 103.6082952°W
¹² BOTTOM OF HOLE
LAT. = 32.0655875°N
LONG. = 103.6082883°W
NMSP EAST (FT)
N = 388352.76
E = 765935.30
¹³ S/4 CORNER SEC. 6 SCALED
¹⁴ LTP BOTTOM OF HOLE
106' 1685'
¹⁵ SURFACE LOCATION
2570' 280'

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

First Take Point (FTP)

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

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	6	26S	33E		399	SOUTH	1687	EAST	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 Oil Company	Property Name: Red Hills Federal	Well Number 206H

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

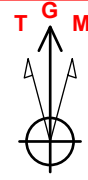
Project: Lea County, NM (NAD 83)
 Site: SEC 31, T25S, R33E
 Well: RED HILLS 205H
 Wellbore: OH
 FINAL

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

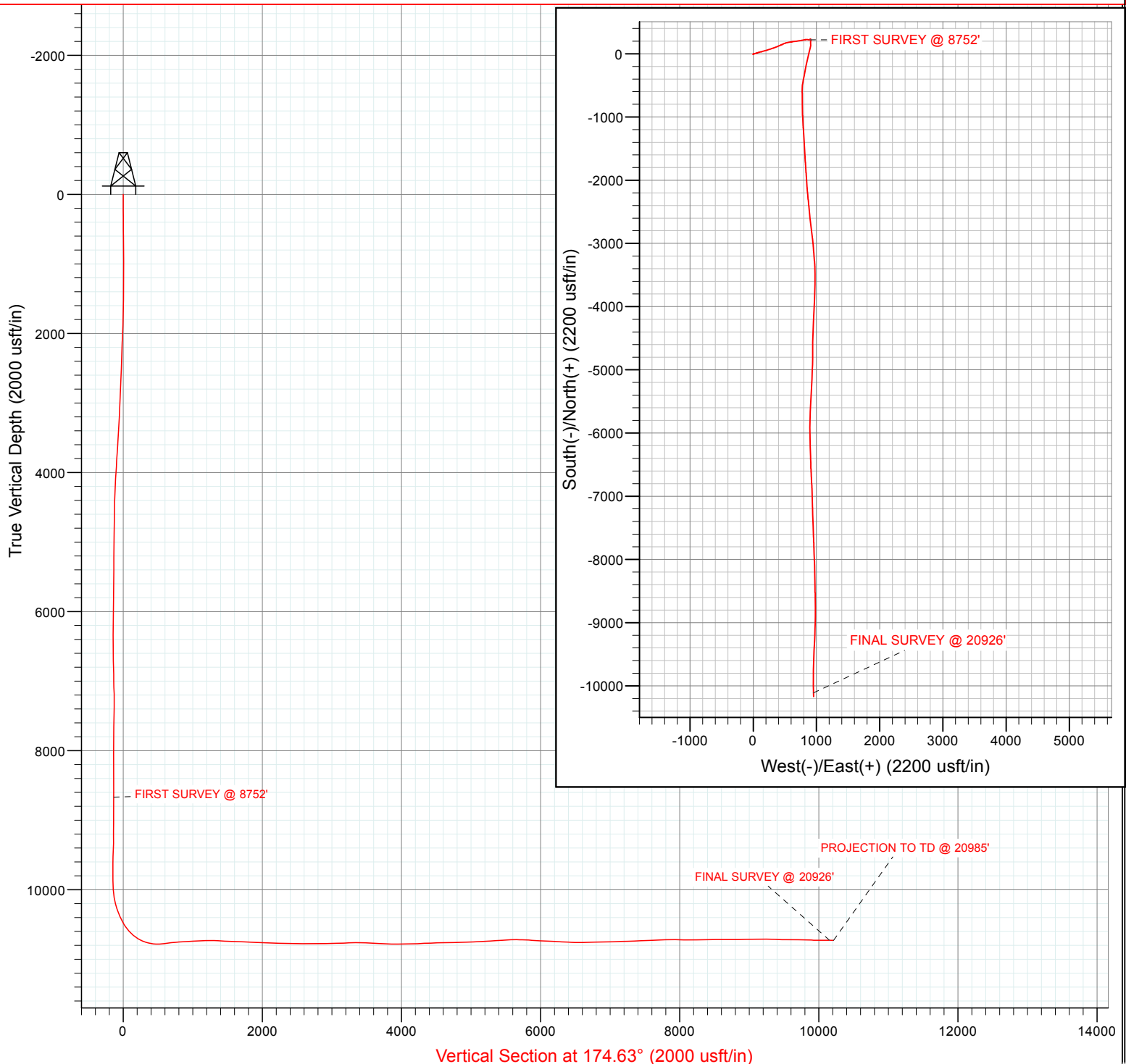


Total Azimuth to Grid North
 True North: -0.38°
 Magnetic North: 6.12°

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 (°/100usf)	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			
		+N/-S (usft)	+E/-W (usft)	Comment	
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 (°)
	HDGM_FILE	9/4/2020	6.50
			Dip Angle (°)
			59.67
			Field Strength (nT)
			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)
	0.00	0.00	0.00
			Direction (°)
			174.63

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

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 131317

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 131317
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	MUST AMMEND PRODUCTION BACK TO FEBUARY 2021. MUST ALSO SUBMIT CORRECTED C-104NW.	8/4/2022