

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 RT for 2200 BOPD
⁴ API Number 30 - 025-46946	⁵ Pool Name Ojo Chiso; Wolfcamp, Southwest	⁶ Pool Code 98265
⁷ Property Code 316707	⁸ Property Name Bell Lake Unit North	⁹ Well Number 430H

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
L	5	23S	34E		2031	South	454	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	22S	34E		99	North	251	East	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 6/2/21	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 9/11/20	²² Ready Date 4/19/21	²³ TD 19,226' MD	²⁴ PBDT 19,043' MD	²⁵ Perforations 11,493' - 19,012'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8"	1,295'		1,070 SX
12-1/4"		10-3/4"	5,095'		905 SX
9-7/8"		7-5/8"	10,540'		1,150 SX
6-3/4"		5-1/2"	19,188'		1,475 SX

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		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:			OIL CONSERVATION DIVISION Approved by: Title: Approval Date: 		
Printed name: Erica Miles					
Title: Geosciences Technician					
E-mail Address: EricaM@kfoc.net					
Date: 6/14/21	Phone:918-491-4548				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (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 30-025-46946	² Pool Code 98265	³ Pool Name Ojo Chiso; Wolfcamp, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	⁶ Well Number 430H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3444.7

¹⁰ Surface Location

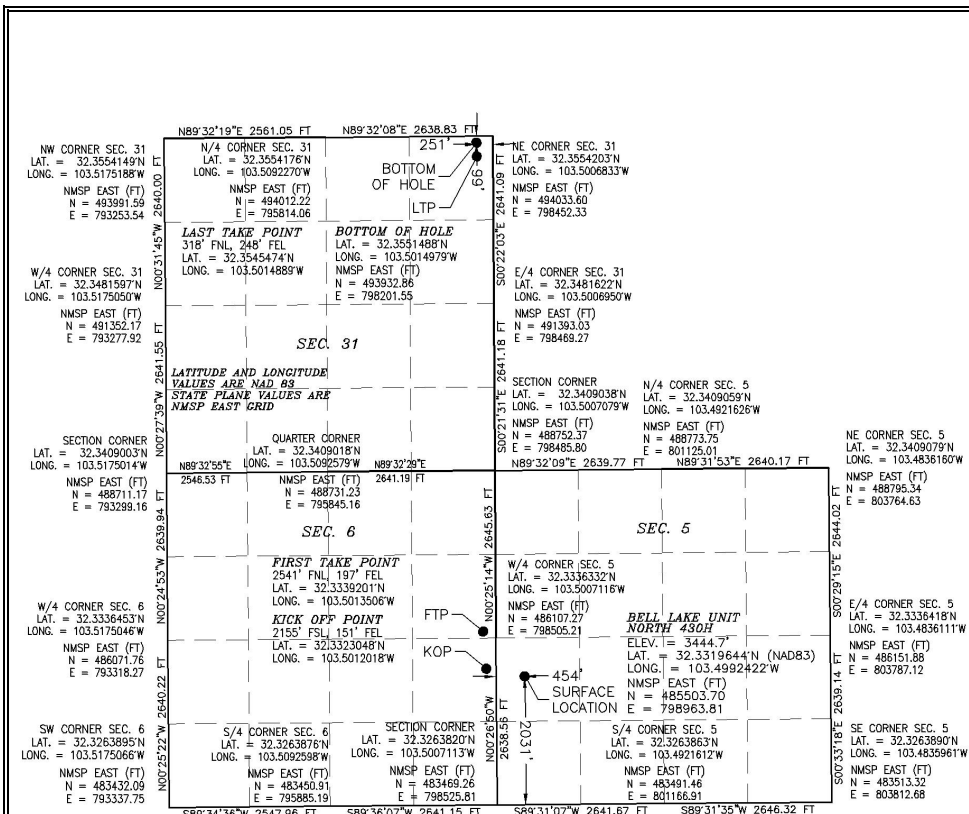
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	5	23 S	34 E		2031	SOUTH	454	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	22 S	34 E		99	NORTH	251	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14602
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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 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.

6/14/21

Signature

Date

Erica Miles

Printed Name

EricaM@kfoc.net

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

MARCH 22, 2021

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: 12797

Surveyor No. 5932C

Intent ☐ As Drilled ☒

API # 30-025-46947		
Operator Name: KAISER-FRANCIS OIL COMPANY	Property Name: BELL LAKE UNIT NORTH	Well Number 430H

Kick Off Point (KOP)

UL I	Section 6	Township 23S	Range 34E	Lot	Feet 2155	From N/S SOUTH	Feet 151	From E/W EAST	County LEA
Latitude 32.3323048					Longitude 103.5012018				NAD 83

First Take Point (FTP)

UL H	Section 6	Township 23S	Range 34E	Lot	Feet 2541	From N/S NORTH	Feet 197	From E/W EAST	County LEA
Latitude 32.3339201					Longitude 103.5013506				NAD 83

Last Take Point (LTP)

UL A	Section 31	Township 22S	Range 34E	Lot	Feet 318	From N/S NORTH	Feet 248	From E/W EAST	County LEA
Latitude 32.3545474					Longitude 103.5014889				NAD 83

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Kaiser-Francis Oil Company

Kaiser-Francis Oil Co.

Lea County, NM (NAD 83)
SEC 5, T23S, R34E
BELL LAKE UNIT NORTH 430H

HORIZONTAL

Design: FINAL

Standard Survey Report

29 September, 2020



Kaiser-Francis Oil Company



CATHEDRAL

Project: Lea County, NM (NAD 83)
 Site: SEC 5, T23S, R34E
 Well: BELL LAKE UNIT NORTH 430H
 Wellbore: HORIZONTAL
 Plan: FINAL

WELL DETAILS: BELL LAKE UNIT NORTH 430H

23.9' KB @ 3468.60usft (Cactus 171)
 Ground Level: 3444.70

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	485503.70	798963.81	32° 19' 55.072 N	103° 29' 57.272 W

US State Plane 1983
 New Mexico Eastern Zone

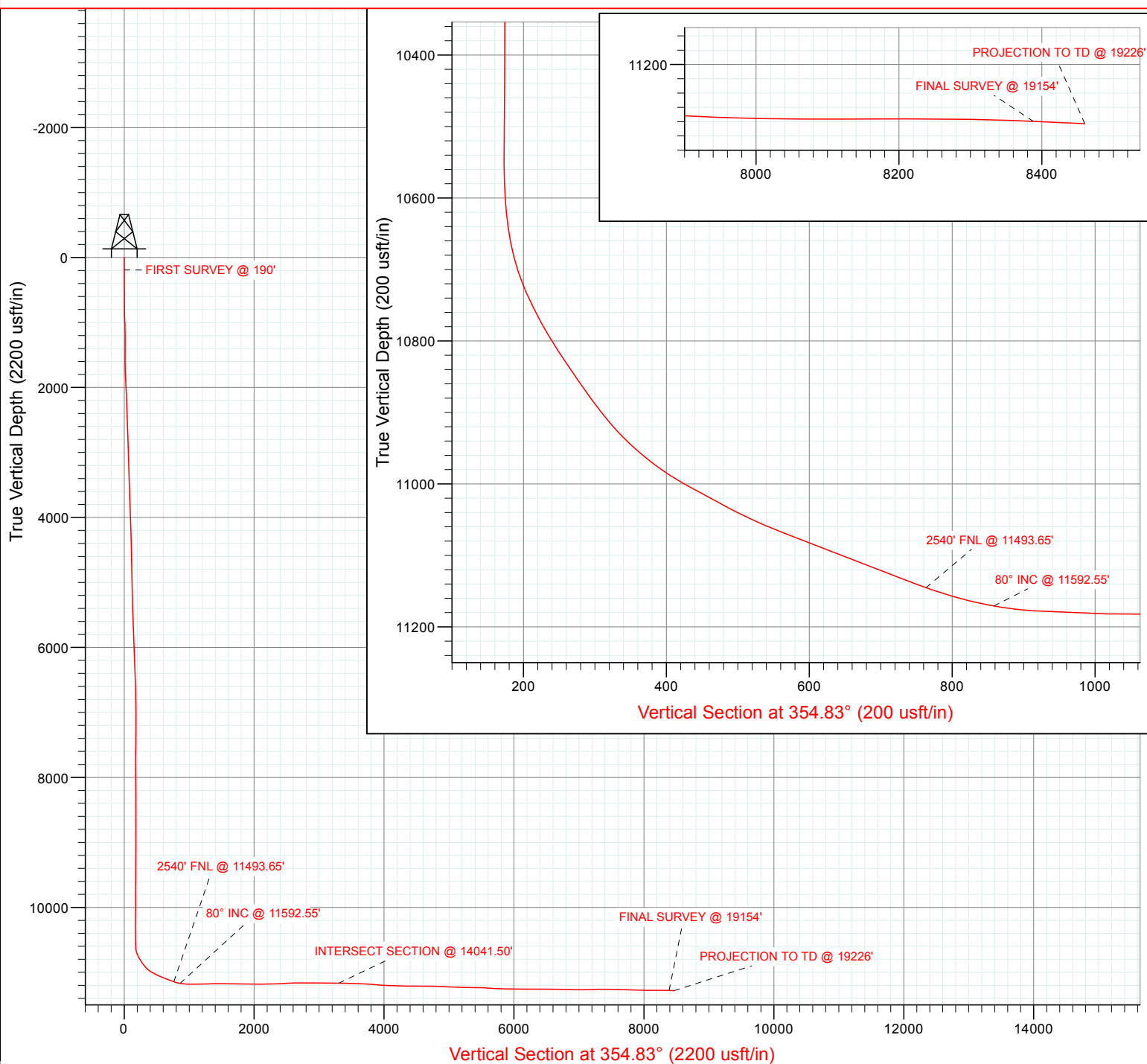


Total Azimuth to Grid North
 True North: -0.45°
 Magnetic North: 6.05°

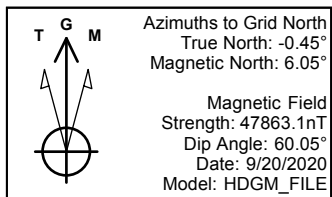
Magnetic Field
 Strength: 47863.1nT
 Dip Angle: 60.05°
 Date: 9/20/2020
 Model: HDGM_FILE

SURVEY DETAILS

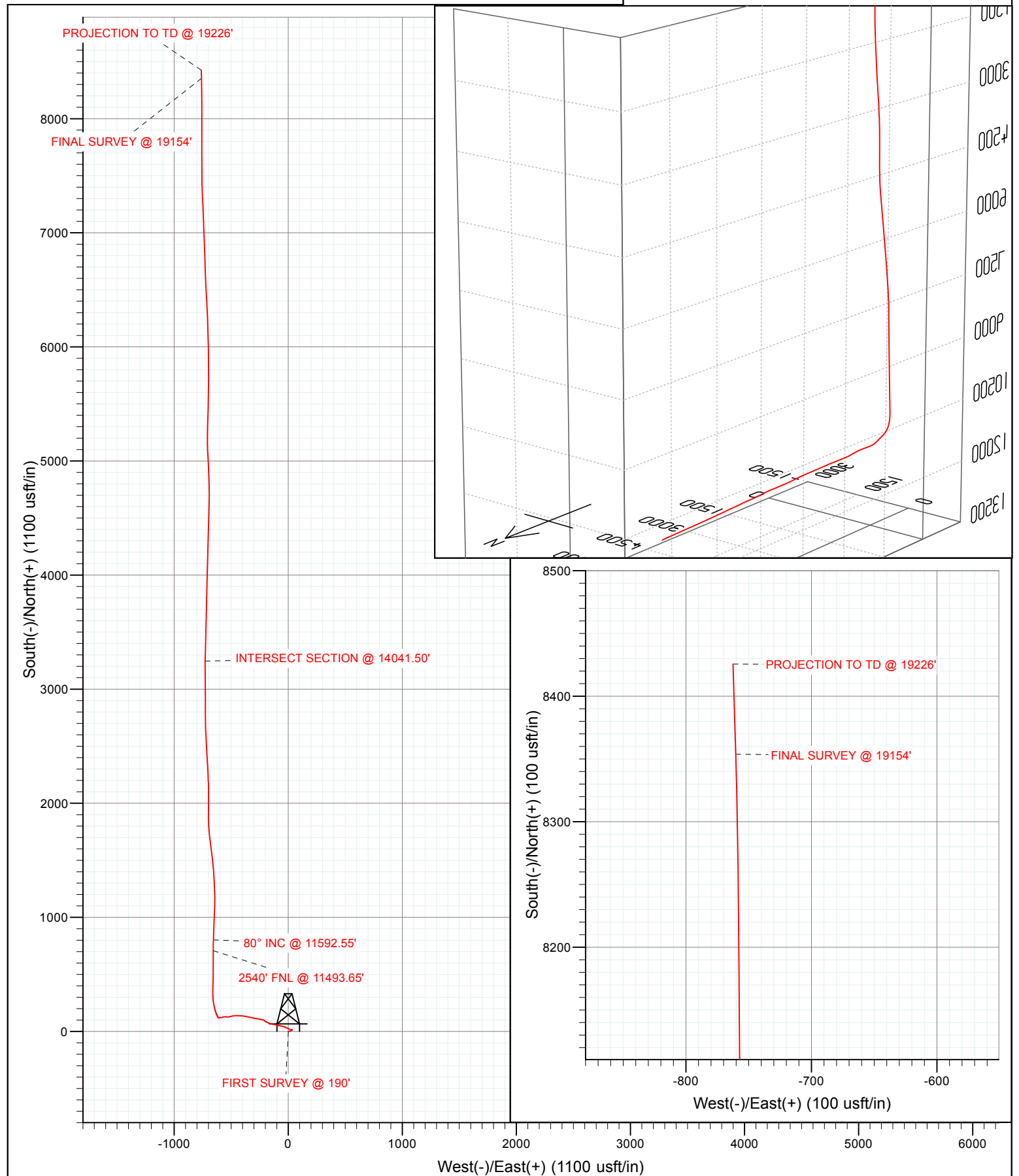
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
190.00	0.91	95.76	189.99	-0.15	1.50	-0.29	1.51	FIRST SURVEY @ 190'
11493.65	70.75	0.02	11145.24	707.04	-656.98	763.37	1310.37	2540' FNL @ 11493.65'
11592.55	80.00	1.67	11170.83	802.45	-655.55	858.26	1405.79	80° INC @ 11592.55'
14041.50	88.72	0.78	11166.42	3246.56	-727.68	3298.93	3853.50	INTERSECT SECTION @ 14041.50'
19154.00	87.34	358.28	11279.63	8353.78	-760.28	8388.30	8962.92	FINAL SURVEY @ 19154'
19226.00	87.34	358.28	11282.97	8425.67	-762.44	8460.09	9034.84	PROJECTION TO TD @ 19226'



Kaiser-Francis Oil Company



US State Plane 1983
New Mexico Eastern Zone
Project: Lea County, NM (NAD 83)
Site: SEC 5, T23S, R34E
Well: BELL LAKE UNIT NORTH 430H
Wellbore: HORIZONTAL
23.9' KB @ 3468.60usft (Cactus 171)
Ground Elevation: 3444.70
FINAL



Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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 5, T23S, R34E				
Site Position:		Northing:	485,503.70 usft	Latitude:	32° 19' 55.072 N	
From:	Map	Easting:	798,963.81 usft	Longitude:	103° 29' 57.272 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.45 °

Well	BELL LAKE UNIT NORTH 430H					
Well Position	+N/-S	0.00 usft	Northing:	485,503.70 usft	Latitude:	32° 19' 55.072 N
	+E/-W	0.00 usft	Easting:	798,963.81 usft	Longitude:	103° 29' 57.272 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,444.70 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/20/2020	6.50	60.05	47,863.10000000

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	354.83	

Survey Program	Date	9/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
190.00	19,226.00	GT MWD (HORIZONTAL)	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 (°/100usft)	Build Rate (°/100u)	Formations / Comments	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
190.00	0.91	95.76	189.99	-0.15	1.50	-0.29	0.48	0.48	FIRST SURVEY @ 190'	
236.00	1.03	64.46	235.99	-0.01	2.24	-0.21	1.17	0.26		
330.00	1.37	73.29	329.97	0.68	4.08	0.31	0.41	0.36		
424.00	1.89	87.47	423.93	1.07	6.70	0.46	0.70	0.55		
517.00	3.76	73.72	516.81	1.99	11.16	0.98	2.12	2.01		
610.00	3.48	76.01	609.63	3.53	16.83	2.00	0.34	-0.30		
703.00	1.86	105.59	702.53	3.81	21.02	1.90	2.23	-1.74		
797.00	2.20	68.20	796.47	4.07	24.16	1.87	1.43	0.36		
891.00	3.73	42.51	890.35	6.99	27.91	4.45	2.12	1.63		
984.00	3.15	37.65	983.18	11.24	31.51	8.36	0.70	-0.62		
1,077.00	1.38	46.31	1,076.10	14.04	33.88	10.93	1.93	-1.90		
1,171.00	0.67	28.23	1,170.09	15.31	34.96	12.09	0.82	-0.76		

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 5, T23S, R34E
Well: BELL LAKE UNIT NORTH 430H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 430H
TVD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
MD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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
1,265.00	0.50	306.31	1,264.08	16.03	34.89	12.82	0.83	-0.18	
1,364.00	0.76	214.66	1,363.08	15.75	34.17	12.61	0.93	0.26	
1,459.00	0.58	217.67	1,458.07	14.85	33.52	11.77	0.19	-0.19	
1,554.00	2.66	272.28	1,553.03	14.56	31.02	11.70	2.50	2.19	
1,649.00	3.61	273.79	1,647.89	14.84	25.83	12.45	1.00	1.00	
1,744.00	5.00	290.59	1,742.62	16.50	18.97	14.72	1.96	1.46	
1,839.00	5.72	296.93	1,837.21	20.10	10.88	19.03	0.98	0.76	
1,934.00	5.47	294.81	1,931.75	24.14	2.54	23.81	0.34	-0.26	
2,029.00	5.10	295.29	2,026.35	27.84	-5.38	28.22	0.39	-0.39	
2,124.00	4.86	296.08	2,120.99	31.42	-12.82	32.44	0.26	-0.25	
2,219.00	4.43	294.95	2,215.68	34.73	-19.76	36.37	0.46	-0.45	
2,314.00	3.91	293.54	2,310.43	37.58	-26.05	39.77	0.56	-0.55	
2,409.00	5.59	286.47	2,405.10	40.18	-33.46	43.03	1.87	1.77	
2,504.00	6.33	285.78	2,499.58	42.92	-42.94	46.61	0.78	0.78	
2,598.00	5.99	283.67	2,593.04	45.49	-52.69	50.05	0.43	-0.36	
2,693.00	5.76	283.26	2,687.54	47.75	-62.15	53.16	0.25	-0.24	
2,788.00	5.52	281.52	2,782.08	49.76	-71.26	55.98	0.31	-0.25	
2,883.00	5.13	283.78	2,876.67	51.68	-79.87	58.67	0.47	-0.41	
2,978.00	7.34	282.02	2,971.10	53.96	-89.93	61.84	2.33	2.33	
3,073.00	7.85	284.02	3,065.27	56.79	-102.16	65.77	0.60	0.54	
3,167.00	6.71	280.44	3,158.51	59.34	-113.79	69.36	1.30	-1.21	
3,262.00	5.92	280.78	3,252.94	61.26	-124.06	72.20	0.83	-0.83	
3,357.00	5.16	281.71	3,347.49	63.05	-133.05	74.78	0.81	-0.80	
3,452.00	4.94	282.08	3,442.12	64.77	-141.24	77.24	0.23	-0.23	
3,542.00	5.40	283.63	3,531.76	66.58	-149.14	79.75	0.53	0.51	
3,636.00	5.05	286.44	3,625.37	68.79	-157.41	82.70	0.46	-0.37	
3,731.00	4.80	289.25	3,720.01	71.29	-165.17	85.88	0.37	-0.26	
3,826.00	4.21	295.73	3,814.72	74.11	-172.06	89.32	0.82	-0.62	
3,921.00	3.73	294.20	3,909.49	76.89	-178.02	92.62	0.52	-0.51	
4,016.00	3.60	295.22	4,004.30	79.43	-183.54	95.65	0.15	-0.14	
4,111.00	3.10	297.23	4,099.14	81.88	-188.52	98.53	0.54	-0.53	
4,205.00	2.76	300.48	4,193.01	84.19	-192.73	101.21	0.40	-0.36	
4,300.00	2.53	301.08	4,287.91	86.43	-196.50	103.79	0.24	-0.24	
4,395.00	2.41	302.69	4,382.82	88.59	-199.98	106.25	0.15	-0.13	
4,490.00	2.40	303.76	4,477.74	90.77	-203.31	108.73	0.05	-0.01	
4,585.00	2.15	306.64	4,572.66	92.94	-206.40	111.17	0.29	-0.26	
4,680.00	2.07	300.67	4,667.60	94.88	-209.30	113.36	0.25	-0.08	
4,775.00	1.94	305.67	4,762.54	96.69	-212.08	115.41	0.23	-0.14	
4,870.00	1.92	305.50	4,857.49	98.56	-214.69	117.50	0.02	-0.02	
4,965.00	1.76	300.95	4,952.44	100.23	-217.23	119.40	0.23	-0.17	
5,060.00	1.85	290.15	5,047.39	101.51	-219.92	120.92	0.37	0.09	
5,151.00	1.97	285.45	5,138.34	102.43	-222.81	122.09	0.22	0.13	
5,246.00	4.68	280.11	5,233.17	103.55	-228.20	123.69	2.87	2.85	
5,341.00	6.51	279.42	5,327.72	105.11	-237.33	126.07	1.93	1.93	
5,436.00	8.31	282.12	5,421.92	107.43	-249.35	129.47	1.93	1.89	
5,531.00	8.27	280.99	5,515.93	110.18	-262.77	133.41	0.18	-0.04	
5,626.00	7.40	278.93	5,610.04	112.43	-275.52	136.80	0.96	-0.92	
5,721.00	7.01	275.90	5,704.29	113.97	-287.33	139.41	0.57	-0.41	
5,816.00	8.21	282.55	5,798.45	116.04	-299.72	142.58	1.56	1.26	
5,911.00	8.78	283.40	5,892.41	119.20	-313.40	146.96	0.61	0.60	
6,006.00	8.35	282.74	5,986.35	122.40	-327.18	151.39	0.46	-0.45	
6,101.00	8.27	281.99	6,080.35	125.34	-340.59	155.52	0.14	-0.08	
6,196.00	8.34	280.70	6,174.36	128.04	-354.04	159.42	0.21	0.07	

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 5, T23S, R34E
Well: BELL LAKE UNIT NORTH 430H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 430H
TVD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
MD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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
6,290.00	7.94	279.69	6,267.41	130.40	-367.14	162.95	0.45	-0.43	
6,385.00	7.72	280.43	6,361.52	132.66	-379.88	166.35	0.25	-0.23	
6,480.00	7.36	278.05	6,455.70	134.66	-392.18	169.46	0.50	-0.38	
6,575.00	6.86	276.00	6,549.97	136.11	-403.85	171.95	0.59	-0.53	
6,670.00	6.78	274.21	6,644.30	137.11	-415.09	173.96	0.24	-0.08	
6,765.00	6.64	273.00	6,738.65	137.81	-426.16	175.66	0.21	-0.15	
6,860.00	6.35	271.09	6,833.04	138.20	-436.90	177.01	0.38	-0.31	
6,955.00	6.08	271.41	6,927.48	138.42	-447.18	178.16	0.29	-0.28	
7,050.00	6.20	269.22	7,021.94	138.48	-457.34	179.13	0.28	0.13	
7,144.00	6.05	265.93	7,115.40	138.06	-467.36	179.61	0.41	-0.16	
7,239.00	5.72	261.51	7,209.90	137.00	-477.04	179.44	0.59	-0.35	
7,334.00	5.35	261.07	7,304.46	135.62	-486.09	178.87	0.39	-0.39	
7,429.00	5.34	256.43	7,399.04	133.89	-494.77	177.94	0.45	-0.01	
7,524.00	4.93	255.74	7,493.66	131.85	-503.02	176.65	0.44	-0.43	
7,618.00	4.56	253.80	7,587.34	129.81	-510.52	175.29	0.43	-0.39	
7,713.00	4.50	254.17	7,682.04	127.74	-517.73	173.88	0.07	-0.06	
7,808.00	4.10	270.29	7,776.78	126.74	-524.72	173.51	1.33	-0.42	
7,903.00	2.57	281.37	7,871.62	127.18	-530.20	174.44	1.74	-1.61	
7,998.00	2.47	274.03	7,966.53	127.74	-534.33	175.38	0.36	-0.11	
8,093.00	2.46	272.15	8,061.44	127.96	-538.41	175.96	0.09	-0.01	
8,188.00	2.28	277.41	8,156.36	128.28	-542.32	176.64	0.30	-0.19	
8,283.00	1.83	274.49	8,251.30	128.65	-545.71	177.30	0.49	-0.47	
8,378.00	1.61	275.36	8,346.25	128.89	-548.55	177.80	0.23	-0.23	
8,473.00	1.56	269.23	8,441.22	129.00	-551.17	178.14	0.19	-0.05	
8,567.00	1.73	261.23	8,535.18	128.76	-553.85	178.15	0.30	0.18	
8,662.00	1.44	267.71	8,630.14	128.50	-556.46	178.12	0.36	-0.31	
8,757.00	1.65	267.05	8,725.11	128.38	-559.02	178.24	0.22	0.22	
8,852.00	1.35	265.57	8,820.07	128.22	-561.50	178.30	0.32	-0.32	
8,947.00	0.98	266.67	8,915.05	128.09	-563.43	178.34	0.39	-0.39	
9,041.00	0.93	285.99	9,009.04	128.25	-564.97	178.65	0.34	-0.05	
9,136.00	0.88	257.78	9,104.03	128.31	-566.42	178.83	0.47	-0.05	
9,231.00	0.92	250.03	9,199.02	127.89	-567.85	178.55	0.13	0.04	
9,326.00	1.61	242.88	9,293.99	127.03	-569.75	177.86	0.74	0.73	
9,421.00	2.00	243.55	9,388.95	125.68	-572.43	176.76	0.41	0.41	
9,515.00	2.21	245.95	9,482.88	124.21	-575.55	175.57	0.24	0.22	
9,610.00	2.15	246.13	9,577.81	122.74	-578.85	174.41	0.06	-0.06	
9,704.00	1.97	250.45	9,671.75	121.49	-581.99	173.44	0.25	-0.19	
9,799.00	1.76	261.23	9,766.70	120.72	-584.97	172.95	0.43	-0.22	
9,894.00	1.49	268.30	9,861.67	120.46	-587.64	172.93	0.35	-0.28	
9,989.00	1.65	270.13	9,956.63	120.43	-590.25	173.13	0.18	0.17	
10,084.00	1.64	271.53	10,051.59	120.47	-592.97	173.42	0.04	-0.01	
10,179.00	1.80	272.07	10,146.55	120.56	-595.82	173.76	0.17	0.17	
10,274.00	1.98	266.86	10,241.50	120.52	-598.95	174.01	0.26	0.19	
10,369.00	1.84	262.04	10,336.44	120.22	-602.10	173.99	0.22	-0.15	
10,463.00	1.67	252.84	10,430.40	119.61	-604.90	173.63	0.35	-0.18	
10,513.00	1.88	252.85	10,480.38	119.15	-606.38	173.31	0.42	0.42	
10,580.00	2.32	254.34	10,547.33	118.46	-608.74	172.84	0.66	0.66	
10,675.00	8.75	323.95	10,641.90	123.79	-614.86	178.70	8.67	6.77	
10,770.00	25.07	336.40	10,732.51	148.25	-627.25	204.17	17.50	17.18	
10,865.00	33.68	345.20	10,815.26	192.26	-642.07	249.35	10.12	9.06	
10,960.00	36.68	350.04	10,892.91	245.70	-653.71	303.61	4.31	3.16	
11,055.00	50.64	357.19	10,961.51	310.69	-660.46	368.95	15.57	14.69	
11,134.00	61.92	2.10	11,005.31	376.26	-660.68	434.27	15.18	14.28	

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 5, T23S, R34E
Well: BELL LAKE UNIT NORTH 430H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 430H
TVD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
MD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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
11,182.00	61.68	2.11	11,028.00	418.53	-659.13	476.23	0.50	-0.50	
11,277.00	68.84	0.24	11,067.73	504.74	-657.40	561.93	7.75	7.54	
11,372.00	69.05	0.39	11,101.86	593.39	-656.91	650.18	0.27	0.22	
11,467.00	68.80	359.62	11,136.02	682.04	-656.90	738.46	0.80	-0.26	
11,493.65	70.75	0.02	11,145.24	707.04	-656.98	763.37	7.45	7.32	2540' FNL @ 11493.65'
11,516.00	72.38	0.35	11,152.30	728.24	-656.91	784.48	7.43	7.29	
11,562.00	76.55	1.21	11,164.62	772.55	-656.31	828.55	9.24	9.07	
11,592.55	80.00	1.67	11,170.83	802.45	-655.55	858.26	11.39	11.29	80° INC @ 11592.55'
11,657.00	87.28	2.60	11,177.96	866.41	-653.17	921.75	11.39	11.30	
11,752.00	87.92	1.59	11,181.94	961.26	-649.70	1,015.90	1.26	0.67	
11,847.00	91.60	3.04	11,182.34	1,056.17	-645.86	1,110.07	4.16	3.87	
11,942.00	91.29	359.79	11,179.94	1,151.09	-643.52	1,204.40	3.44	-0.33	
12,037.00	91.20	357.54	11,177.88	1,246.04	-645.73	1,299.16	2.37	-0.09	
12,132.00	92.47	357.18	11,174.84	1,340.89	-650.10	1,394.02	1.39	1.34	
12,226.00	89.55	354.65	11,173.18	1,434.62	-656.80	1,487.97	4.11	-3.11	
12,321.00	88.40	353.54	11,174.88	1,529.09	-666.57	1,582.94	1.68	-1.21	
12,416.00	89.19	352.28	11,176.88	1,623.34	-678.29	1,677.87	1.57	0.83	
12,511.00	89.38	354.10	11,178.06	1,717.66	-689.55	1,772.82	1.93	0.20	
12,606.00	87.70	356.53	11,180.48	1,812.30	-697.31	1,867.77	3.11	-1.77	
12,701.00	88.93	0.93	11,183.28	1,907.21	-699.41	1,962.49	4.81	1.29	
12,796.00	90.76	0.91	11,183.53	2,002.20	-697.89	2,056.95	1.93	1.93	
12,891.00	91.29	359.17	11,181.83	2,097.18	-697.82	2,151.53	1.91	0.56	
12,986.00	93.31	357.93	11,178.02	2,192.07	-700.22	2,246.25	2.49	2.13	
13,081.00	91.04	356.79	11,174.42	2,286.89	-704.60	2,341.08	2.67	-2.39	
13,176.00	92.30	357.15	11,171.65	2,381.71	-709.62	2,435.97	1.38	1.33	
13,271.00	93.78	356.64	11,166.61	2,476.44	-714.75	2,530.77	1.65	1.56	
13,366.00	89.55	356.69	11,163.85	2,571.21	-720.28	2,625.66	4.45	-4.45	
13,461.00	88.99	358.50	11,165.06	2,666.12	-724.26	2,720.54	1.99	-0.59	
13,555.00	90.78	359.78	11,165.25	2,760.10	-725.67	2,814.27	2.34	1.90	
13,650.00	88.66	359.95	11,165.71	2,855.10	-725.90	2,908.90	2.24	-2.23	
13,745.00	90.76	359.53	11,166.19	2,950.09	-726.33	3,003.54	2.25	2.21	
13,840.00	90.02	359.65	11,165.55	3,045.08	-727.01	3,098.21	0.79	-0.78	
13,935.00	90.28	359.30	11,165.30	3,140.08	-727.88	3,192.90	0.46	0.27	
14,030.00	88.68	0.75	11,166.16	3,235.07	-727.84	3,287.50	2.27	-1.68	
14,041.50	88.72	0.78	11,166.42	3,246.56	-727.68	3,298.93	0.43	0.35	INTERSECT SECTION @ 14041.50'
14,125.00	89.02	1.02	11,168.07	3,330.04	-726.37	3,381.95	0.46	0.36	
14,220.00	88.26	1.34	11,170.32	3,424.99	-724.42	3,476.34	0.87	-0.80	
14,315.00	87.08	2.15	11,174.19	3,519.87	-721.53	3,570.57	1.51	-1.24	
14,409.00	87.12	1.72	11,178.94	3,613.69	-718.36	3,663.73	0.46	0.04	
14,504.00	87.79	0.56	11,183.16	3,708.58	-716.47	3,758.05	1.41	0.71	
14,599.00	85.18	1.10	11,188.98	3,803.38	-715.10	3,852.35	2.81	-2.75	
14,694.00	85.62	1.23	11,196.60	3,898.05	-713.17	3,946.46	0.48	0.46	
14,789.00	87.59	1.83	11,202.23	3,992.85	-710.64	4,040.64	2.17	2.07	
14,884.00	87.36	1.26	11,206.41	4,087.72	-708.08	4,134.90	0.65	-0.24	
14,979.00	90.25	2.27	11,208.40	4,182.64	-705.15	4,229.17	3.22	3.04	
15,073.00	88.21	1.21	11,209.66	4,276.59	-702.30	4,322.48	2.45	-2.17	
15,168.00	87.76	1.00	11,213.00	4,371.51	-700.47	4,416.85	0.52	-0.47	
15,263.00	89.27	1.29	11,215.46	4,466.45	-698.57	4,511.24	1.62	1.59	
15,358.00	92.80	3.42	11,213.74	4,561.34	-694.67	4,605.38	4.34	3.72	
15,453.00	89.02	0.43	11,212.24	4,656.25	-691.48	4,699.62	5.07	-3.98	
15,548.00	87.31	358.44	11,215.28	4,751.18	-692.42	4,794.25	2.76	-1.80	
15,643.00	88.74	358.40	11,218.55	4,846.09	-695.03	4,889.01	1.51	1.51	
15,737.00	85.80	357.09	11,223.03	4,939.90	-698.73	4,982.77	3.42	-3.13	

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 5, T23S, R34E
Well: BELL LAKE UNIT NORTH 430H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 430H
TVD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
MD Reference: 23.9' KB @ 3468.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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
15,832.00	89.52	357.12	11,226.91	5,034.68	-703.52	5,077.60	3.92	3.92	
15,927.00	85.87	357.93	11,230.73	5,129.50	-707.62	5,172.40	3.94	-3.84	
16,022.00	89.86	0.77	11,234.27	5,224.40	-708.69	5,267.01	5.15	4.20	
16,117.00	90.73	2.02	11,233.78	5,319.36	-706.38	5,361.38	1.60	0.92	
16,212.00	88.99	2.63	11,234.01	5,414.28	-702.53	5,455.56	1.94	-1.83	
16,306.00	85.01	0.47	11,238.93	5,508.09	-699.99	5,548.76	4.82	-4.23	
16,401.00	85.51	0.74	11,246.78	5,602.76	-698.99	5,642.96	0.60	0.53	
16,496.00	87.76	0.31	11,252.35	5,697.59	-698.12	5,737.32	2.41	2.37	
16,591.00	89.10	359.63	11,254.96	5,792.55	-698.17	5,831.90	1.58	1.41	
16,686.00	88.93	359.52	11,256.59	5,887.53	-698.87	5,926.56	0.21	-0.18	
16,781.00	89.80	359.34	11,257.64	5,982.52	-699.82	6,021.25	0.94	0.92	
16,876.00	89.86	358.54	11,257.93	6,077.51	-701.57	6,116.00	0.84	0.06	
16,971.00	89.94	357.93	11,258.09	6,172.46	-704.50	6,210.83	0.65	0.08	
17,066.00	89.64	357.29	11,258.44	6,267.38	-708.46	6,305.72	0.74	-0.32	
17,161.00	89.58	357.50	11,259.09	6,362.28	-712.78	6,400.62	0.23	-0.06	
17,256.00	90.08	357.21	11,259.37	6,457.17	-717.16	6,495.53	0.61	0.53	
17,351.00	90.06	356.42	11,259.25	6,552.03	-722.44	6,590.47	0.83	-0.02	
17,446.00	87.81	358.79	11,261.02	6,646.91	-726.41	6,685.33	3.44	-2.37	
17,540.00	87.84	357.99	11,264.59	6,740.81	-729.05	6,779.08	0.85	0.03	
17,635.00	88.91	357.82	11,267.28	6,835.71	-732.52	6,873.90	1.14	1.13	
17,730.00	89.78	357.82	11,268.37	6,930.63	-736.13	6,968.77	0.92	0.92	
17,825.00	90.59	357.98	11,268.06	7,025.56	-739.62	7,063.63	0.87	0.85	
17,920.00	91.71	358.30	11,266.15	7,120.49	-742.70	7,158.45	1.23	1.18	
18,015.00	90.39	357.05	11,264.41	7,215.40	-746.55	7,253.31	1.91	-1.39	
18,110.00	91.54	357.30	11,262.81	7,310.26	-751.23	7,348.22	1.24	1.21	
18,205.00	91.26	358.44	11,260.49	7,405.17	-754.76	7,443.06	1.24	-0.29	
18,300.00	87.76	0.06	11,261.30	7,500.14	-756.01	7,537.75	4.06	-3.68	
18,395.00	86.64	359.25	11,265.94	7,595.02	-756.58	7,632.30	1.45	-1.18	
18,490.00	89.89	0.42	11,268.82	7,689.96	-756.85	7,726.88	3.64	3.42	
18,585.00	88.88	0.27	11,269.84	7,784.96	-756.28	7,821.43	1.07	-1.06	
18,679.00	87.93	359.47	11,272.46	7,878.92	-756.49	7,915.03	1.32	-1.01	
18,774.00	88.26	0.07	11,275.61	7,973.86	-756.87	8,009.63	0.72	0.35	
18,869.00	90.56	359.77	11,276.59	8,068.85	-757.01	8,104.24	2.44	2.42	
18,964.00	89.92	359.61	11,276.19	8,163.85	-757.52	8,198.90	0.69	-0.67	
19,059.00	89.30	359.39	11,276.84	8,258.84	-758.35	8,293.58	0.69	-0.65	
19,154.00	87.34	358.28	11,279.63	8,353.78	-760.28	8,388.30	2.37	-2.06	FINAL SURVEY @ 19154'
19,226.00	87.34	358.28	11,282.97	8,425.67	-762.44	8,460.09	0.00	0.00	PROJECTION TO TD @ 19226'

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
190.00	189.99	-0.15	1.50	FIRST SURVEY @ 190'
11,493.65	11,145.24	707.04	-656.98	2540' FNL @ 11493.65'
11,592.55	11,170.83	802.45	-655.55	80° INC @ 11592.55'
14,041.50	11,166.42	3,246.56	-727.68	INTERSECT SECTION @ 14041.50'
19,154.00	11,279.63	8,353.78	-760.28	FINAL SURVEY @ 19154'
19,226.00	11,282.97	8,425.67	-762.44	PROJECTION TO TD @ 19226'

Checked By: _____ Approved By: _____ Date: _____

Kaiser-Francis Oil Company

Kaiser-Francis Oil Co.

Lea County, NM (NAD 83)
SEC 5, T23S, R34E
BELL LAKE UNIT NORTH 430H

HORIZONTAL

Design: FINAL

Survey Report - Geographic

29 September, 2020



Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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 5, T23S, R34E		
Site Position:		Northing:	485,503.70 usft
From:	Map	Easting:	798,963.81 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 55.072 N
		Longitude:	103° 29' 57.272 W
		Grid Convergence:	0.45 °

Well	BELL LAKE UNIT NORTH 430H		
Well Position	+N/-S	0.00 usft	Northing: 485,503.70 usft
	+E/-W	0.00 usft	Easting: 798,963.81 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 19' 55.072 N
		Longitude:	103° 29' 57.272 W
		Ground Level:	3,444.70 usft

Wellbore	HORIZONTAL		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM_FILE	9/20/2020	6.50
			Dip Angle (°) 60.05
			Field Strength (nT) 47,863.10000000

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 (°) 354.83

Survey Program	Date 9/29/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
190.00	19,226.00	GT MWD (HORIZONTAL)	MWD+HDGM
			Description 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	485,503.70	798,963.81	32° 19' 55.072 N	103° 29' 57.272 W
190.00	0.91	95.76	189.99	-0.15	1.50	485,503.55	798,965.31	32° 19' 55.070 N	103° 29' 57.254 W
FIRST SURVEY @ 190'									
236.00	1.03	64.46	235.99	-0.01	2.24	485,503.69	798,966.05	32° 19' 55.072 N	103° 29' 57.246 W
330.00	1.37	73.29	329.97	0.68	4.08	485,504.38	798,967.88	32° 19' 55.078 N	103° 29' 57.224 W
424.00	1.89	87.47	423.93	1.07	6.70	485,504.77	798,970.51	32° 19' 55.082 N	103° 29' 57.194 W
517.00	3.76	73.72	516.81	1.99	11.16	485,505.69	798,974.97	32° 19' 55.091 N	103° 29' 57.142 W
610.00	3.48	76.01	609.63	3.53	16.83	485,507.23	798,980.63	32° 19' 55.105 N	103° 29' 57.076 W
703.00	1.86	105.59	702.53	3.81	21.02	485,507.51	798,984.83	32° 19' 55.108 N	103° 29' 57.027 W
797.00	2.20	68.20	796.47	4.07	24.16	485,507.77	798,987.97	32° 19' 55.110 N	103° 29' 56.990 W
891.00	3.73	42.51	890.35	6.99	27.91	485,510.69	798,991.71	32° 19' 55.139 N	103° 29' 56.946 W
984.00	3.15	37.65	983.18	11.24	31.51	485,514.94	798,995.32	32° 19' 55.181 N	103° 29' 56.904 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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
1,077.00	1.38	46.31	1,076.10	14.04	33.88	485,517.74	798,997.69	32° 19' 55.208 N	103° 29' 56.876 W
1,171.00	0.67	28.23	1,170.09	15.31	34.96	485,519.01	798,998.77	32° 19' 55.221 N	103° 29' 56.863 W
1,265.00	0.50	306.31	1,264.08	16.03	34.89	485,519.73	798,998.70	32° 19' 55.228 N	103° 29' 56.864 W
1,364.00	0.76	214.66	1,363.08	15.75	34.17	485,519.45	798,997.98	32° 19' 55.225 N	103° 29' 56.872 W
1,459.00	0.58	217.67	1,458.07	14.85	33.52	485,518.55	798,997.32	32° 19' 55.216 N	103° 29' 56.880 W
1,554.00	2.66	272.28	1,553.03	14.56	31.02	485,518.26	798,994.83	32° 19' 55.213 N	103° 29' 56.909 W
1,649.00	3.61	273.79	1,647.89	14.84	25.83	485,518.54	798,989.64	32° 19' 55.217 N	103° 29' 56.970 W
1,744.00	5.00	290.59	1,742.62	16.50	18.97	485,520.20	798,982.78	32° 19' 55.234 N	103° 29' 57.049 W
1,839.00	5.72	296.93	1,837.21	20.10	10.88	485,523.80	798,974.68	32° 19' 55.270 N	103° 29' 57.143 W
1,934.00	5.47	294.81	1,931.75	24.14	2.54	485,527.84	798,966.35	32° 19' 55.310 N	103° 29' 57.240 W
2,029.00	5.10	295.29	2,026.35	27.84	-5.38	485,531.55	798,958.42	32° 19' 55.348 N	103° 29' 57.332 W
2,124.00	4.86	296.08	2,120.99	31.42	-12.82	485,535.12	798,950.99	32° 19' 55.384 N	103° 29' 57.418 W
2,219.00	4.43	294.95	2,215.68	34.73	-19.76	485,538.43	798,944.05	32° 19' 55.417 N	103° 29' 57.499 W
2,314.00	3.91	293.54	2,310.43	37.58	-26.05	485,541.28	798,937.75	32° 19' 55.446 N	103° 29' 57.572 W
2,409.00	5.59	286.47	2,405.10	40.18	-33.46	485,543.88	798,930.35	32° 19' 55.472 N	103° 29' 57.658 W
2,504.00	6.33	285.78	2,499.58	42.92	-42.94	485,546.62	798,920.87	32° 19' 55.500 N	103° 29' 57.768 W
2,598.00	5.99	283.67	2,593.04	45.49	-52.69	485,549.19	798,911.12	32° 19' 55.526 N	103° 29' 57.882 W
2,693.00	5.76	283.26	2,687.54	47.75	-62.15	485,551.45	798,901.66	32° 19' 55.549 N	103° 29' 57.992 W
2,788.00	5.52	281.52	2,782.08	49.76	-71.26	485,553.46	798,892.54	32° 19' 55.570 N	103° 29' 58.098 W
2,883.00	5.13	283.78	2,876.67	51.68	-79.87	485,555.38	798,883.94	32° 19' 55.589 N	103° 29' 58.198 W
2,978.00	7.34	282.02	2,971.10	53.96	-89.93	485,557.66	798,873.88	32° 19' 55.613 N	103° 29' 58.315 W
3,073.00	7.85	284.02	3,065.27	56.79	-102.16	485,560.49	798,861.65	32° 19' 55.642 N	103° 29' 58.457 W
3,167.00	6.71	280.44	3,158.51	59.34	-113.79	485,563.04	798,850.02	32° 19' 55.668 N	103° 29' 58.593 W
3,262.00	5.92	280.78	3,252.94	61.26	-124.06	485,564.96	798,839.75	32° 19' 55.688 N	103° 29' 58.712 W
3,357.00	5.16	281.71	3,347.49	63.05	-133.05	485,566.75	798,830.75	32° 19' 55.706 N	103° 29' 58.817 W
3,452.00	4.94	282.08	3,442.12	64.77	-141.24	485,568.47	798,822.57	32° 19' 55.724 N	103° 29' 58.912 W
3,542.00	5.40	283.63	3,531.76	66.58	-149.14	485,570.28	798,814.67	32° 19' 55.742 N	103° 29' 59.004 W
3,636.00	5.05	286.44	3,625.37	68.79	-157.41	485,572.49	798,806.40	32° 19' 55.765 N	103° 29' 59.100 W
3,731.00	4.80	289.25	3,720.01	71.29	-165.17	485,574.99	798,798.64	32° 19' 55.790 N	103° 29' 59.190 W
3,826.00	4.21	295.73	3,814.72	74.11	-172.06	485,577.81	798,791.74	32° 19' 55.818 N	103° 29' 59.271 W
3,921.00	3.73	294.20	3,909.49	76.89	-178.02	485,580.59	798,785.78	32° 19' 55.846 N	103° 29' 59.340 W
4,016.00	3.60	295.22	4,004.30	79.43	-183.54	485,583.13	798,780.27	32° 19' 55.872 N	103° 29' 59.404 W
4,111.00	3.10	297.23	4,099.14	81.88	-188.52	485,585.58	798,775.28	32° 19' 55.896 N	103° 29' 59.462 W
4,205.00	2.76	300.48	4,193.01	84.19	-192.73	485,587.89	798,771.07	32° 19' 55.920 N	103° 29' 59.510 W
4,300.00	2.53	301.08	4,287.91	86.43	-196.50	485,590.13	798,767.31	32° 19' 55.942 N	103° 29' 59.554 W
4,395.00	2.41	302.69	4,382.82	88.59	-199.98	485,592.29	798,763.83	32° 19' 55.964 N	103° 29' 59.595 W
4,490.00	2.40	303.76	4,477.74	90.77	-203.31	485,594.47	798,760.50	32° 19' 55.986 N	103° 29' 59.633 W
4,585.00	2.15	306.64	4,572.67	92.94	-206.40	485,596.64	798,757.41	32° 19' 56.007 N	103° 29' 59.669 W
4,680.00	2.07	300.67	4,667.60	94.88	-209.30	485,598.58	798,754.51	32° 19' 56.027 N	103° 29' 59.703 W
4,775.00	1.94	305.67	4,762.54	96.69	-212.08	485,600.40	798,751.72	32° 19' 56.045 N	103° 29' 59.735 W
4,870.00	1.92	305.50	4,857.49	98.56	-214.69	485,602.26	798,749.12	32° 19' 56.064 N	103° 29' 59.765 W
4,965.00	1.76	300.95	4,952.44	100.23	-217.23	485,603.93	798,746.58	32° 19' 56.080 N	103° 29' 59.795 W
5,060.00	1.85	290.15	5,047.39	101.51	-219.92	485,605.21	798,743.89	32° 19' 56.093 N	103° 29' 59.826 W
5,151.00	1.97	285.45	5,138.34	102.43	-222.81	485,606.13	798,741.00	32° 19' 56.103 N	103° 29' 59.859 W
5,246.00	4.68	280.11	5,233.17	103.55	-228.20	485,607.25	798,735.61	32° 19' 56.114 N	103° 29' 59.922 W
5,341.00	6.51	279.42	5,327.72	105.11	-237.33	485,608.81	798,726.48	32° 19' 56.130 N	103° 30' 0.028 W
5,436.00	8.31	282.12	5,421.92	107.43	-249.35	485,611.13	798,714.45	32° 19' 56.154 N	103° 30' 0.168 W
5,531.00	8.27	280.99	5,515.93	110.18	-262.77	485,613.88	798,701.03	32° 19' 56.182 N	103° 30' 0.324 W
5,626.00	7.40	278.93	5,610.04	112.43	-275.52	485,616.13	798,688.28	32° 19' 56.205 N	103° 30' 0.473 W
5,721.00	7.01	275.90	5,704.29	113.97	-287.33	485,617.67	798,676.47	32° 19' 56.222 N	103° 30' 0.610 W
5,816.00	8.21	282.55	5,798.45	116.04	-299.72	485,619.74	798,664.09	32° 19' 56.243 N	103° 30' 0.754 W
5,911.00	8.78	283.40	5,892.41	119.20	-313.40	485,622.90	798,650.41	32° 19' 56.275 N	103° 30' 0.914 W
6,006.00	8.35	282.74	5,986.35	122.40	-327.18	485,626.10	798,636.63	32° 19' 56.308 N	103° 30' 1.074 W
6,101.00	8.27	281.99	6,080.35	125.34	-340.59	485,629.04	798,623.22	32° 19' 56.338 N	103° 30' 1.230 W
6,196.00	8.34	280.70	6,174.36	128.04	-354.04	485,631.74	798,609.77	32° 19' 56.366 N	103° 30' 1.386 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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
6,290.00	7.94	279.69	6,267.41	130.40	-367.14	485,634.10	798,596.67	32° 19' 56.390 N	103° 30' 1.539 W
6,385.00	7.72	280.43	6,361.52	132.66	-379.88	485,636.36	798,583.92	32° 19' 56.414 N	103° 30' 1.687 W
6,480.00	7.36	278.05	6,455.70	134.66	-392.18	485,638.36	798,571.62	32° 19' 56.434 N	103° 30' 1.830 W
6,575.00	6.86	276.00	6,549.97	136.11	-403.85	485,639.81	798,559.96	32° 19' 56.450 N	103° 30' 1.966 W
6,670.00	6.78	274.21	6,644.30	137.11	-415.09	485,640.81	798,548.72	32° 19' 56.460 N	103° 30' 2.097 W
6,765.00	6.64	273.00	6,738.65	137.81	-426.16	485,641.51	798,537.64	32° 19' 56.468 N	103° 30' 2.226 W
6,860.00	6.35	271.09	6,833.04	138.20	-436.90	485,641.90	798,526.91	32° 19' 56.473 N	103° 30' 2.351 W
6,955.00	6.08	271.41	6,927.48	138.42	-447.18	485,642.12	798,516.62	32° 19' 56.476 N	103° 30' 2.471 W
7,050.00	6.20	269.22	7,021.94	138.48	-457.34	485,642.18	798,506.46	32° 19' 56.477 N	103° 30' 2.589 W
7,144.00	6.05	265.93	7,115.40	138.06	-467.36	485,641.76	798,496.45	32° 19' 56.474 N	103° 30' 2.706 W
7,239.00	5.72	261.51	7,209.90	137.00	-477.04	485,640.70	798,486.77	32° 19' 56.464 N	103° 30' 2.819 W
7,334.00	5.35	261.07	7,304.46	135.62	-486.09	485,639.32	798,477.71	32° 19' 56.451 N	103° 30' 2.925 W
7,429.00	5.34	256.43	7,399.04	133.89	-494.77	485,637.59	798,469.04	32° 19' 56.435 N	103° 30' 3.026 W
7,524.00	4.93	255.74	7,493.66	131.85	-503.02	485,635.55	798,460.79	32° 19' 56.415 N	103° 30' 3.122 W
7,618.00	4.56	253.80	7,587.34	129.81	-510.52	485,633.51	798,453.29	32° 19' 56.396 N	103° 30' 3.210 W
7,713.00	4.50	254.17	7,682.04	127.74	-517.73	485,631.44	798,446.07	32° 19' 56.376 N	103° 30' 3.294 W
7,808.00	4.10	270.29	7,776.78	126.74	-524.72	485,630.44	798,439.09	32° 19' 56.366 N	103° 30' 3.376 W
7,903.00	2.57	281.37	7,871.62	127.18	-530.20	485,630.88	798,433.61	32° 19' 56.371 N	103° 30' 3.440 W
7,998.00	2.47	274.03	7,966.53	127.74	-534.33	485,631.44	798,429.48	32° 19' 56.377 N	103° 30' 3.488 W
8,093.00	2.46	272.15	8,061.44	127.96	-538.41	485,631.66	798,425.40	32° 19' 56.379 N	103° 30' 3.535 W
8,188.00	2.28	277.41	8,156.36	128.28	-542.32	485,631.98	798,421.49	32° 19' 56.383 N	103° 30' 3.581 W
8,283.00	1.83	274.49	8,251.30	128.65	-545.71	485,632.35	798,418.10	32° 19' 56.387 N	103° 30' 3.620 W
8,378.00	1.61	275.36	8,346.25	128.89	-548.55	485,632.59	798,415.26	32° 19' 56.389 N	103° 30' 3.653 W
8,473.00	1.56	269.23	8,441.22	129.00	-551.17	485,632.70	798,412.64	32° 19' 56.391 N	103° 30' 3.684 W
8,567.00	1.73	261.23	8,535.18	128.76	-553.85	485,632.46	798,409.96	32° 19' 56.389 N	103° 30' 3.715 W
8,662.00	1.44	267.71	8,630.14	128.50	-556.46	485,632.20	798,407.35	32° 19' 56.386 N	103° 30' 3.745 W
8,757.00	1.65	267.05	8,725.11	128.38	-559.02	485,632.08	798,404.79	32° 19' 56.385 N	103° 30' 3.775 W
8,852.00	1.35	265.57	8,820.07	128.22	-561.50	485,631.92	798,402.31	32° 19' 56.384 N	103° 30' 3.804 W
8,947.00	0.98	266.67	8,915.05	128.09	-563.43	485,631.79	798,400.38	32° 19' 56.383 N	103° 30' 3.827 W
9,041.00	0.93	285.99	9,009.04	128.25	-564.97	485,631.95	798,398.84	32° 19' 56.384 N	103° 30' 3.845 W
9,136.00	0.88	257.78	9,104.03	128.31	-566.42	485,632.01	798,397.39	32° 19' 56.385 N	103° 30' 3.862 W
9,231.00	0.92	250.03	9,199.02	127.89	-567.85	485,631.60	798,395.96	32° 19' 56.381 N	103° 30' 3.878 W
9,326.00	1.61	242.88	9,293.99	127.03	-569.75	485,630.73	798,394.05	32° 19' 56.373 N	103° 30' 3.901 W
9,421.00	2.00	243.55	9,388.95	125.68	-572.43	485,629.38	798,391.38	32° 19' 56.359 N	103° 30' 3.932 W
9,515.00	2.21	245.95	9,482.88	124.21	-575.55	485,627.91	798,388.26	32° 19' 56.345 N	103° 30' 3.968 W
9,610.00	2.15	246.13	9,577.81	122.74	-578.85	485,626.44	798,384.96	32° 19' 56.331 N	103° 30' 4.007 W
9,704.00	1.97	250.45	9,671.75	121.49	-581.99	485,625.19	798,381.82	32° 19' 56.319 N	103° 30' 4.044 W
9,799.00	1.76	261.23	9,766.70	120.72	-584.97	485,624.42	798,378.84	32° 19' 56.311 N	103° 30' 4.078 W
9,894.00	1.49	268.30	9,861.67	120.46	-587.64	485,624.16	798,376.16	32° 19' 56.309 N	103° 30' 4.110 W
9,989.00	1.65	270.13	9,956.63	120.43	-590.25	485,624.13	798,373.56	32° 19' 56.309 N	103° 30' 4.140 W
10,084.00	1.64	271.53	10,051.59	120.47	-592.97	485,624.17	798,370.84	32° 19' 56.309 N	103° 30' 4.172 W
10,179.00	1.80	272.07	10,146.55	120.56	-595.82	485,624.26	798,367.99	32° 19' 56.311 N	103° 30' 4.205 W
10,274.00	1.98	266.86	10,241.50	120.52	-598.95	485,624.22	798,364.86	32° 19' 56.310 N	103° 30' 4.241 W
10,369.00	1.84	262.04	10,336.44	120.22	-602.10	485,623.92	798,361.71	32° 19' 56.308 N	103° 30' 4.278 W
10,463.00	1.67	252.84	10,430.40	119.61	-604.90	485,623.31	798,358.90	32° 19' 56.302 N	103° 30' 4.311 W
10,513.00	1.88	252.85	10,480.38	119.15	-606.38	485,622.85	798,357.42	32° 19' 56.297 N	103° 30' 4.328 W
10,580.00	2.32	254.34	10,547.33	118.46	-608.74	485,622.16	798,355.07	32° 19' 56.291 N	103° 30' 4.356 W
10,675.00	8.75	323.95	10,641.90	123.79	-614.86	485,627.49	798,348.95	32° 19' 56.344 N	103° 30' 4.426 W
10,770.00	25.07	336.40	10,732.51	148.25	-627.25	485,651.95	798,336.56	32° 19' 56.587 N	103° 30' 4.569 W
10,865.00	33.68	345.20	10,815.26	192.26	-642.07	485,695.96	798,321.73	32° 19' 57.024 N	103° 30' 4.737 W
10,960.00	36.68	350.04	10,892.91	245.70	-653.71	485,749.40	798,310.09	32° 19' 57.553 N	103° 30' 4.868 W
11,055.00	50.64	357.19	10,961.51	310.69	-660.46	485,814.39	798,303.35	32° 19' 58.197 N	103° 30' 4.941 W
11,134.00	61.92	2.10	11,005.31	376.26	-660.68	485,879.96	798,303.13	32° 19' 58.846 N	103° 30' 4.938 W
11,182.00	61.68	2.11	11,028.00	418.53	-659.13	485,922.23	798,304.68	32° 19' 59.264 N	103° 30' 4.916 W
11,277.00	68.84	0.24	11,067.73	504.74	-657.40	486,008.44	798,306.41	32° 20' 0.117 N	103° 30' 4.888 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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
11,372.00	69.05	0.39	11,101.86	593.39	-656.91	486,097.09	798,306.90	32° 20' 0.994 N	103° 30' 4.874 W
11,467.00	68.80	359.62	11,136.02	682.04	-656.90	486,185.74	798,306.90	32° 20' 1.871 N	103° 30' 4.866 W
11,493.65	70.75	0.02	11,145.24	707.04	-656.98	486,210.74	798,306.83	32° 20' 2.118 N	103° 30' 4.865 W
2540' FNL @ 11493.65'									
11,516.00	72.38	0.35	11,152.30	728.24	-656.91	486,231.94	798,306.89	32° 20' 2.328 N	103° 30' 4.862 W
11,562.00	76.55	1.21	11,164.62	772.55	-656.31	486,276.25	798,307.50	32° 20' 2.767 N	103° 30' 4.851 W
11,592.55	80.00	1.67	11,170.83	802.45	-655.55	486,306.15	798,308.25	32° 20' 3.062 N	103° 30' 4.839 W
80° INC @ 11592.55'									
11,657.00	87.28	2.60	11,177.96	866.41	-653.17	486,370.11	798,310.64	32° 20' 3.695 N	103° 30' 4.806 W
11,752.00	87.92	1.59	11,181.94	961.26	-649.70	486,464.96	798,314.11	32° 20' 4.633 N	103° 30' 4.757 W
11,847.00	91.60	3.04	11,182.34	1,056.17	-645.86	486,559.87	798,317.95	32° 20' 5.572 N	103° 30' 4.703 W
11,942.00	91.29	359.79	11,179.94	1,151.09	-643.52	486,654.79	798,320.29	32° 20' 6.511 N	103° 30' 4.667 W
12,037.00	91.20	357.54	11,177.88	1,246.04	-645.73	486,749.74	798,318.08	32° 20' 7.451 N	103° 30' 4.685 W
12,132.00	92.47	357.18	11,174.84	1,340.89	-650.10	486,844.59	798,313.71	32° 20' 8.390 N	103° 30' 4.727 W
12,226.00	89.55	354.65	11,173.18	1,434.62	-656.80	486,938.32	798,307.01	32° 20' 9.318 N	103° 30' 4.797 W
12,321.00	88.40	353.54	11,174.88	1,529.09	-666.57	487,032.80	798,297.24	32° 20' 10.253 N	103° 30' 4.902 W
12,416.00	89.19	352.28	11,176.88	1,623.34	-678.29	487,127.05	798,285.52	32° 20' 11.187 N	103° 30' 5.030 W
12,511.00	89.38	354.10	11,178.06	1,717.66	-689.55	487,221.36	798,274.25	32° 20' 12.121 N	103° 30' 5.153 W
12,606.00	87.70	356.53	11,180.48	1,812.30	-697.31	487,316.01	798,266.50	32° 20' 13.058 N	103° 30' 5.235 W
12,701.00	88.93	0.93	11,183.28	1,907.21	-699.41	487,410.92	798,264.39	32° 20' 13.997 N	103° 30' 5.251 W
12,796.00	90.76	0.91	11,183.53	2,002.20	-697.89	487,505.90	798,265.92	32° 20' 14.937 N	103° 30' 5.224 W
12,891.00	91.29	359.17	11,181.83	2,097.18	-697.82	487,600.88	798,265.99	32° 20' 15.877 N	103° 30' 5.215 W
12,986.00	93.31	357.93	11,178.02	2,192.07	-700.22	487,695.77	798,263.58	32° 20' 16.816 N	103° 30' 5.234 W
13,081.00	91.04	356.79	11,174.42	2,286.89	-704.60	487,790.59	798,259.21	32° 20' 17.754 N	103° 30' 5.277 W
13,176.00	92.30	357.15	11,171.65	2,381.71	-709.62	487,885.41	798,254.19	32° 20' 18.693 N	103° 30' 5.326 W
13,271.00	93.78	356.64	11,166.61	2,476.44	-714.75	487,980.14	798,249.05	32° 20' 19.631 N	103° 30' 5.378 W
13,366.00	89.55	356.69	11,163.85	2,571.21	-720.28	488,074.92	798,243.53	32° 20' 20.569 N	103° 30' 5.434 W
13,461.00	88.99	358.50	11,165.06	2,666.12	-724.26	488,169.82	798,239.55	32° 20' 21.508 N	103° 30' 5.471 W
13,555.00	90.78	359.78	11,165.25	2,760.10	-725.67	488,263.80	798,238.13	32° 20' 22.438 N	103° 30' 5.479 W
13,650.00	88.66	359.95	11,165.71	2,855.10	-725.90	488,358.80	798,237.91	32° 20' 23.378 N	103° 30' 5.473 W
13,745.00	90.76	359.53	11,166.20	2,950.09	-726.33	488,453.79	798,237.48	32° 20' 24.318 N	103° 30' 5.470 W
13,840.00	90.02	359.65	11,165.55	3,045.08	-727.01	488,548.78	798,236.80	32° 20' 25.258 N	103° 30' 5.469 W
13,935.00	90.28	359.30	11,165.30	3,140.08	-727.88	488,643.78	798,235.93	32° 20' 26.198 N	103° 30' 5.471 W
14,030.00	88.68	0.75	11,166.16	3,235.07	-727.84	488,738.77	798,235.97	32° 20' 27.138 N	103° 30' 5.462 W
14,041.50	88.72	0.78	11,166.42	3,246.56	-727.68	488,750.27	798,236.12	32° 20' 27.252 N	103° 30' 5.459 W
INTERSECT SECTION @ 14041.50'									
14,125.00	89.02	1.02	11,168.07	3,330.04	-726.37	488,833.74	798,237.44	32° 20' 28.078 N	103° 30' 5.436 W
14,220.00	88.26	1.34	11,170.32	3,424.99	-724.42	488,928.69	798,239.39	32° 20' 29.017 N	103° 30' 5.405 W
14,315.00	87.08	2.15	11,174.19	3,519.87	-721.53	489,023.57	798,242.28	32° 20' 29.956 N	103° 30' 5.362 W
14,409.00	87.12	1.72	11,178.94	3,613.69	-718.36	489,117.39	798,245.45	32° 20' 30.884 N	103° 30' 5.317 W
14,504.00	87.79	0.56	11,183.16	3,708.58	-716.47	489,212.28	798,247.34	32° 20' 31.823 N	103° 30' 5.286 W
14,599.00	85.18	1.10	11,188.98	3,803.38	-715.10	489,307.08	798,248.71	32° 20' 32.761 N	103° 30' 5.262 W
14,694.00	85.62	1.23	11,196.60	3,898.05	-713.17	489,401.75	798,250.64	32° 20' 33.697 N	103° 30' 5.231 W
14,789.00	87.59	1.83	11,202.23	3,992.85	-710.64	489,496.55	798,253.17	32° 20' 34.635 N	103° 30' 5.193 W
14,884.00	87.36	1.26	11,206.41	4,087.72	-708.08	489,591.42	798,255.73	32° 20' 35.574 N	103° 30' 5.154 W
14,979.00	90.25	2.27	11,208.40	4,182.64	-705.15	489,686.34	798,258.65	32° 20' 36.513 N	103° 30' 5.111 W
15,073.00	88.21	1.21	11,209.66	4,276.59	-702.30	489,780.29	798,261.51	32° 20' 37.442 N	103° 30' 5.070 W
15,168.00	87.76	1.00	11,213.00	4,371.51	-700.47	489,875.21	798,263.34	32° 20' 38.381 N	103° 30' 5.040 W
15,263.00	89.27	1.29	11,215.46	4,466.46	-698.57	489,970.16	798,265.24	32° 20' 39.320 N	103° 30' 5.009 W
15,358.00	92.80	3.42	11,213.75	4,561.34	-694.67	490,065.04	798,269.14	32° 20' 40.259 N	103° 30' 4.955 W
15,453.00	89.02	0.43	11,212.24	4,656.25	-691.48	490,159.95	798,272.33	32° 20' 41.198 N	103° 30' 4.909 W
15,548.00	87.31	358.44	11,215.28	4,751.18	-692.42	490,254.88	798,271.39	32° 20' 42.137 N	103° 30' 4.911 W
15,643.00	88.74	358.40	11,218.55	4,846.09	-695.03	490,349.79	798,268.77	32° 20' 43.077 N	103° 30' 4.933 W
15,737.00	85.80	357.09	11,223.03	4,939.90	-698.73	490,443.60	798,265.08	32° 20' 44.005 N	103° 30' 4.968 W
15,832.00	89.52	357.12	11,226.91	5,034.68	-703.52	490,538.38	798,260.29	32° 20' 44.943 N	103° 30' 5.015 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 430H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Site:	SEC 5, T23S, R34E	MD Reference:	23.9' KB @ 3468.60usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 430H	North Reference:	Grid
Wellbore:	HORIZONTAL	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
15,927.00	85.87	357.93	11,230.73	5,129.50	-707.62	490,633.20	798,256.19	32° 20' 45.882 N	103° 30' 5.054 W
16,022.00	89.86	0.77	11,234.27	5,224.40	-708.69	490,728.10	798,255.11	32° 20' 46.821 N	103° 30' 5.058 W
16,117.00	90.73	2.02	11,233.78	5,319.36	-706.38	490,823.07	798,257.43	32° 20' 47.760 N	103° 30' 5.023 W
16,212.00	88.99	2.63	11,234.01	5,414.28	-702.53	490,917.98	798,261.28	32° 20' 48.699 N	103° 30' 4.969 W
16,306.00	85.01	0.47	11,238.93	5,508.09	-699.99	491,011.80	798,263.82	32° 20' 49.627 N	103° 30' 4.931 W
16,401.00	85.51	0.74	11,246.78	5,602.76	-698.99	491,106.46	798,264.82	32° 20' 50.564 N	103° 30' 4.911 W
16,496.00	87.76	0.31	11,252.35	5,697.59	-698.12	491,201.29	798,265.69	32° 20' 51.502 N	103° 30' 4.892 W
16,591.00	89.10	359.63	11,254.96	5,792.55	-698.17	491,296.25	798,265.64	32° 20' 52.442 N	103° 30' 4.884 W
16,686.00	88.93	359.52	11,256.59	5,887.53	-698.87	491,391.24	798,264.94	32° 20' 53.382 N	103° 30' 4.884 W
16,781.00	89.80	359.34	11,257.64	5,982.52	-699.82	491,486.22	798,263.99	32° 20' 54.322 N	103° 30' 4.886 W
16,876.00	89.86	358.54	11,257.93	6,077.51	-701.57	491,581.21	798,262.23	32° 20' 55.262 N	103° 30' 4.898 W
16,971.00	89.94	357.93	11,258.09	6,172.46	-704.50	491,676.16	798,259.31	32° 20' 56.201 N	103° 30' 4.924 W
17,066.00	89.64	357.29	11,258.44	6,267.38	-708.46	491,771.08	798,255.35	32° 20' 57.141 N	103° 30' 4.961 W
17,161.00	89.58	357.50	11,259.09	6,362.28	-712.78	491,865.98	798,251.03	32° 20' 58.080 N	103° 30' 5.003 W
17,256.00	90.08	357.21	11,259.37	6,457.17	-717.16	491,960.87	798,246.64	32° 20' 59.020 N	103° 30' 5.045 W
17,351.00	90.06	356.42	11,259.25	6,552.03	-722.44	492,055.73	798,241.37	32° 20' 59.959 N	103° 30' 5.098 W
17,446.00	87.81	358.79	11,261.02	6,646.91	-726.41	492,150.61	798,237.40	32° 21' 0.898 N	103° 30' 5.136 W
17,540.00	87.84	357.99	11,264.59	6,740.81	-729.05	492,244.51	798,234.76	32° 21' 1.827 N	103° 30' 5.158 W
17,635.00	88.91	357.82	11,267.28	6,835.71	-732.52	492,339.41	798,231.29	32° 21' 2.766 N	103° 30' 5.190 W
17,730.00	89.78	357.82	11,268.37	6,930.63	-736.13	492,434.33	798,227.67	32° 21' 3.706 N	103° 30' 5.224 W
17,825.00	90.59	357.98	11,268.06	7,025.56	-739.62	492,529.27	798,224.19	32° 21' 4.646 N	103° 30' 5.256 W
17,920.00	91.71	358.30	11,266.15	7,120.49	-742.70	492,624.19	798,221.11	32° 21' 5.585 N	103° 30' 5.283 W
18,015.00	90.39	357.05	11,264.41	7,215.40	-746.55	492,719.10	798,217.26	32° 21' 6.524 N	103° 30' 5.319 W
18,110.00	91.54	357.30	11,262.81	7,310.26	-751.23	492,813.97	798,212.57	32° 21' 7.463 N	103° 30' 5.365 W
18,205.00	91.26	358.44	11,260.49	7,405.17	-754.76	492,908.87	798,209.04	32° 21' 8.403 N	103° 30' 5.398 W
18,300.00	87.76	0.06	11,261.30	7,500.14	-756.01	493,003.84	798,207.80	32° 21' 9.343 N	103° 30' 5.404 W
18,395.00	86.64	359.25	11,265.94	7,595.02	-756.58	493,098.72	798,207.23	32° 21' 10.281 N	103° 30' 5.402 W
18,490.00	89.89	0.42	11,268.82	7,689.96	-756.85	493,193.66	798,206.96	32° 21' 11.221 N	103° 30' 5.396 W
18,585.00	88.88	0.27	11,269.84	7,784.96	-756.28	493,288.66	798,207.53	32° 21' 12.161 N	103° 30' 5.381 W
18,679.00	87.93	359.47	11,272.46	7,878.92	-756.49	493,382.62	798,207.32	32° 21' 13.091 N	103° 30' 5.375 W
18,774.00	88.26	0.07	11,275.61	7,973.86	-756.87	493,477.56	798,206.94	32° 21' 14.030 N	103° 30' 5.371 W
18,869.00	90.56	359.77	11,276.59	8,068.85	-757.01	493,572.55	798,206.80	32° 21' 14.970 N	103° 30' 5.364 W
18,964.00	89.92	359.61	11,276.19	8,163.85	-757.52	493,667.55	798,206.29	32° 21' 15.910 N	103° 30' 5.361 W
19,059.00	89.30	359.39	11,276.84	8,258.84	-758.35	493,762.54	798,205.46	32° 21' 16.850 N	103° 30' 5.362 W
19,154.00	87.34	358.28	11,279.63	8,353.78	-760.28	493,857.48	798,203.53	32° 21' 17.790 N	103° 30' 5.376 W
FINAL SURVEY @ 19154'									
19,226.00	87.34	358.28	11,282.97	8,425.67	-762.44	493,929.37	798,201.37	32° 21' 18.501 N	103° 30' 5.395 W
PROJECTION TO TD @ 19226'									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
190.00	189.99	-0.15	1.50	FIRST SURVEY @ 190'	
11,493.65	11,145.24	707.04	-656.98	2540' FNL @ 11493.65'	
11,592.55	11,170.83	802.45	-655.55	80° INC @ 11592.55'	
14,041.50	11,166.42	3,246.56	-727.68	INTERSECT SECTION @ 14041.50'	
19,154.00	11,279.63	8,353.78	-760.28	FINAL SURVEY @ 19154'	
19,226.00	11,282.97	8,425.67	-762.44	PROJECTION TO TD @ 19226'	

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

ACKNOWLEDGMENTS

Action 31890

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 31890
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

District I

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

CONDITIONS

Action 31890

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 31890
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 expires 09/17/2021. Submit all drilling, casing and completion sundries/reports. Do not use pdf forms with signature fill function as this prevents OCD from completing the approval portion of the form.	8/17/2021