

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Kaiser-Francis Oil Company P.O. Box 21468, Tulsa, OK, 74121-1468		² OGRID Number 12361	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 025-48023	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 426H

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
5	6	23S	34E		2410	North	610	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
1	31	22S	34E		103	North	1250	West	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 6/5/21	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 12/21/2020	²² Ready Date 4/9/2021	²³ TD 19533' MD/ 11529' TVD	²⁴ PBD 19382' MD/ 11535' TVD	²⁵ Perforations 11794' - 19350'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	1,173'	1,030 SX		
12-1/4"	10-3/4"	4,946'	805 SX		
9-7/8"	7-5/8"	10,825'	1,205 SX		
6-3/4"	5-1/2"	19,513'	1,615 SX		

V. Well Test Data

³¹ Date New Oil 6/28/2021	³² Gas Delivery Date 7/1/2021	³³ Test Date 07/14/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2900
³⁷ Choke Size 24/64	³⁸ Oil 1070	³⁹ Water 2023	⁴⁰ Gas 2863		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Erica Miles	OIL CONSERVATION DIVISION
Printed name: Erica Miles	Approved by: PATRICIA MARTINEZ
Title: Geosciences Technician	Title: PETROLEUM SPECIALIST
E-mail Address: EricaM@kfoc.net	Approval Date: 10/25/2021
Date: 9/13/2021	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
copy to appropriate
District Office

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48023	² Pool Code 98265	³ Pool Name Ojo Chiso; Wolfcamp, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁶ Well Number 426H
		⁹ Elevation 3486.0

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
5	6	23 S	34 E		2410	NORTH	610	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
1	31	22 S	34 E		103	NORTH	1250	WEST	LEA

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

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

NW CORNER SEC. 31
LAT. = 32.3554149°N
LONG. = 103.5175188°W

NMSP EAST (FT)
N = 493991.59
E = 793253.54

W/4 CORNER SEC. 31
LAT. = 32.3481597°N
LONG. = 103.5175050°W

NMSP EAST (FT)
N = 491352.17
E = 793277.92

SW CORNER SEC. 31
LAT. = 32.3409003°N
LONG. = 103.5175014°W

NMSP EAST (FT)
N = 488711.17
E = 793299.16

**AS-DRILLED
FIRST TAKE POINT**
2541' FNL, 1280' FWL
LAT. = 32.3339191°N
LONG. = 103.5133612°W

W/4 CORNER SEC. 6
LAT. = 32.3336453°N
LONG. = 103.5175046°W

NMSP EAST (FT)
N = 486071.76
E = 793318.27

SW CORNER SEC. 6
LAT. = 32.3263895°N
LONG. = 103.5175066°W

NMSP EAST (FT)
N = 483432.09
E = 793337.75

N89°32'19"E 2561.05 FT N89°32'08"E 2638.83 FT
BHL
LTP
103'

N/4 CORNER SEC. 31
LAT. = 32.3554176°N
LONG. = 103.5092270°W

NMSP EAST (FT)
N = 494012.22
E = 795814.06

**AS-DRILLED
BOTTOM OF HOLE**
LAT. = 32.3551342°N
LONG. = 103.5134710°W

NMSP EAST (FT)
N = 493899.05
E = 794504.29

**AS-DRILLED
LAST TAKE POINT**
285' FNL, 1254' FWL
LAT. = 32.3546320°N
LONG. = 103.5134588°W

NOTE:
LATITUDE AND LONGITUDE COORDINATES ARE
SHOWN USING THE NORTH AMERICAN DATUM
OF 1983 (NAD83) LISTED NEW MEXICO STATE
PLANE EAST COORDINATES ARE GRID (NAD83).
BASIS OF BEARING AND DISTANCES USED ARE
NEW MEXICO STATE PLANE EAST COORDINATES
MODIFIED TO THE SURFACE. VERTICAL DATUM
NAVD88.

N89°32'55"E 2546.53 FT N89°32'29"E 2641.19 FT

N/4 CORNER SEC. 6
LAT. = 32.3409018°N
LONG. = 103.5092579°W

NMSP EAST (FT)
N = 488731.23
E = 795845.16

BELL LAKE UNIT NORTH 426H
ELEV. = 3486.0'
LAT. = 32.3342776°N (NAD83)
LONG. = 103.5155297°W

NMSP EAST (FT)
N = 486306.45
E = 793926.52

**AS-DRILLED
KOP**
2192' FSL, 1245' FWL
LAT. = 32.3324137°N
LONG. = 103.5134745°W

S/4 CORNER SEC. 6
LAT. = 32.3263876°N
LONG. = 103.5092598°W

NMSP EAST (FT)
N = 483450.91
E = 795885.19

S89°34'36"W 2547.96 FT S89°36'07"W 2641.15 FT

SE CORNER SEC. 31
LAT. = 32.3554203°N
LONG. = 103.5006833°W

NMSP EAST (FT)
N = 494033.60
E = 798452.33

E/4 CORNER SEC. 31
LAT. = 32.3481622°N
LONG. = 103.5006950°W

NMSP EAST (FT)
N = 491393.03
E = 798469.27

SE CORNER SEC. 31
LAT. = 32.3409038°N
LONG. = 103.5007079°W

NMSP EAST (FT)
N = 488752.37
E = 798485.80

E/4 CORNER SEC. 6
LAT. = 32.3336332°N
LONG. = 103.5007116°W

NMSP EAST (FT)
N = 486107.27
E = 798505.21

SE CORNER SEC. 6
LAT. = 32.3263820°N
LONG. = 103.5007113°W

NMSP EAST (FT)
N = 483469.26
E = 798525.81

Signature _____ Date _____

Erica Miles
Printed Name

EricaM@kfoc.net
E-mail Address

18 **SURVEYOR 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

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.

MAY 20, 2021

Date of Survey

Signature and Seal of Professional Surveyor: _____
Certificate Number: **ERICKSON F. JARAMILLO, PLS 12797**
NEW MEXICO SURVEYOR
ERICKSON F. JARAMILLO, PLS 12797
NEW MEXICO SURVEYOR
ERICKSON F. JARAMILLO, PLS 12797
NEW MEXICO SURVEYOR

Intent ☐ As Drilled ☒

API # 30-025-48023		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT NORTH	Well Number 426H

Kick Off Point (KOP)

UL	Section 6	Township 23S	Range 34E	Lot 6	Feet 2192	From N/S SOUTH	Feet 1245	From E/W WEST	County LEA
Latitude 32.3324137					Longitude 103.5134745			NAD 83	

First Take Point (FTP)

UL F	Section 6	Township 23S	Range 34E	Lot	Feet 2541	From N/S NORTH	Feet 1280	From E/W WEST	County LEA
Latitude 32.3339191					Longitude 103.5133612			NAD 83	

Last Take Point (LTP)

UL	Section 31	Township 22S	Range 34E	Lot 1	Feet 285	From N/S NORTH	Feet 1254	From E/W WEST	County LEA
Latitude 32.3546320					Longitude 103.5134588			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 6, T23S, R34E
BELL LAKE UNIT NORTH 426H

HORIZONTAL

Design: FINAL

Standard Survey Report

04 January, 2021



Kaiser-Francis Oil Company



CATHEDRAL

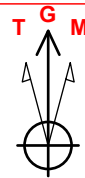
Project: Lea County, NM (NAD 83)
 Site: SEC 6, T23S, R34E
 Well: BELL LAKE UNIT NORTH 426H
 Wellbore: HORIZONTAL
 FINAL

WELL DETAILS: BELL LAKE UNIT NORTH 426H

23.9' KB @ 3509.90usft (Cactus 171)
 Ground Level: 3486.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	486306.45	793926.52	32° 20' 3.399 N	103° 30' 55.907 W

US State Plane 1983
 New Mexico Eastern Zone

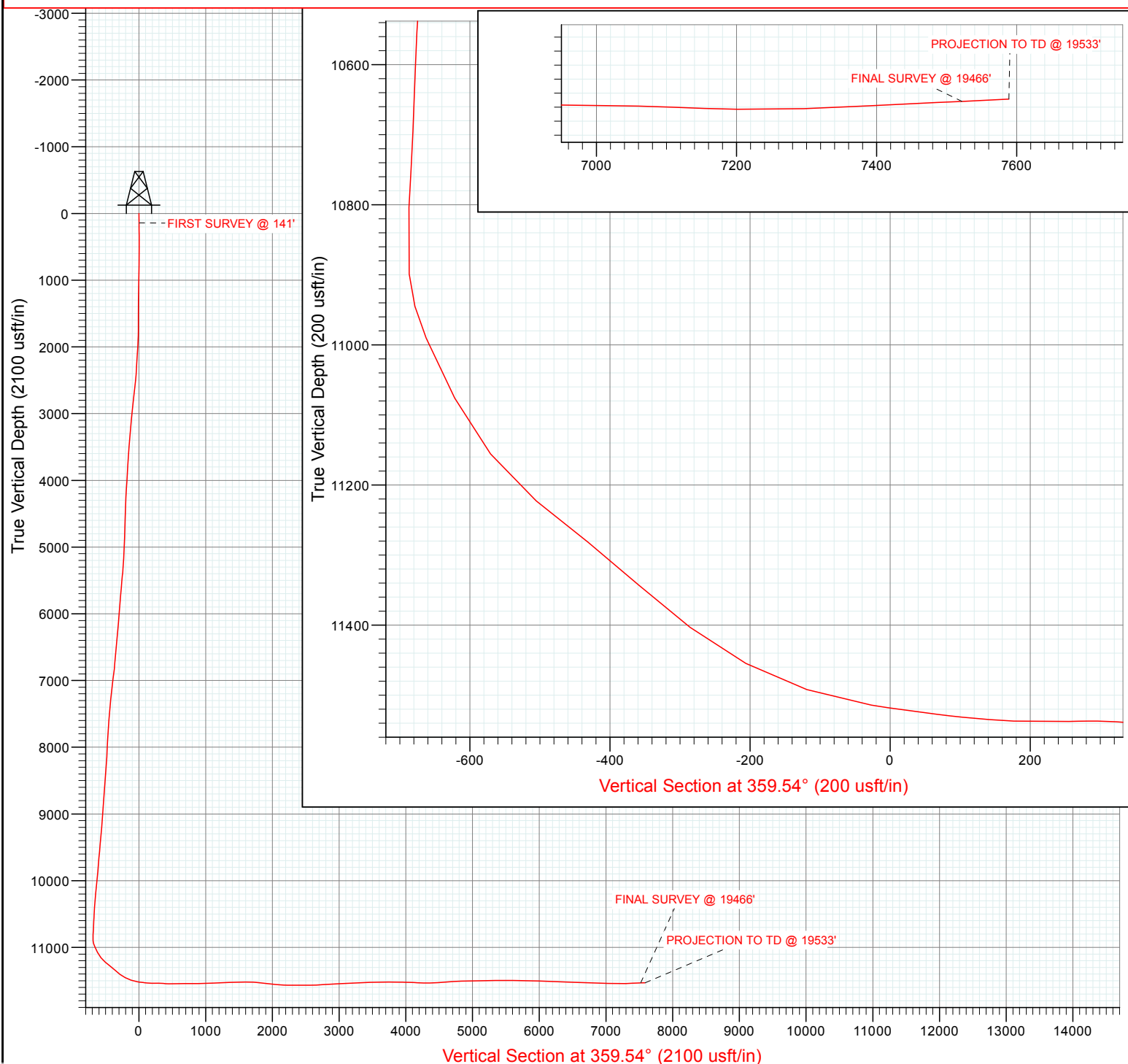


Total Azimuth to Grid North
 True North: -0.44°
 Magnetic North: 6.05°

Magnetic Field
 Strength: 47835.4nT
 Dip Angle: 60.03°
 Date: 12/31/2020
 Model: HDGM_FILE

SURVEY DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
141.00	0.48	325.00	141.00	0.48	-0.34	0.49	0.59	FIRST SURVEY @ 141'
19466.00	92.63	358.44	11531.63	7526.92	579.67	7522.02	9212.60	FINAL SURVEY @ 19466'
19533.00	92.63	358.44	11528.56	7593.82	577.85	7588.94	9279.53	PROJECTION TO TD @ 19533'



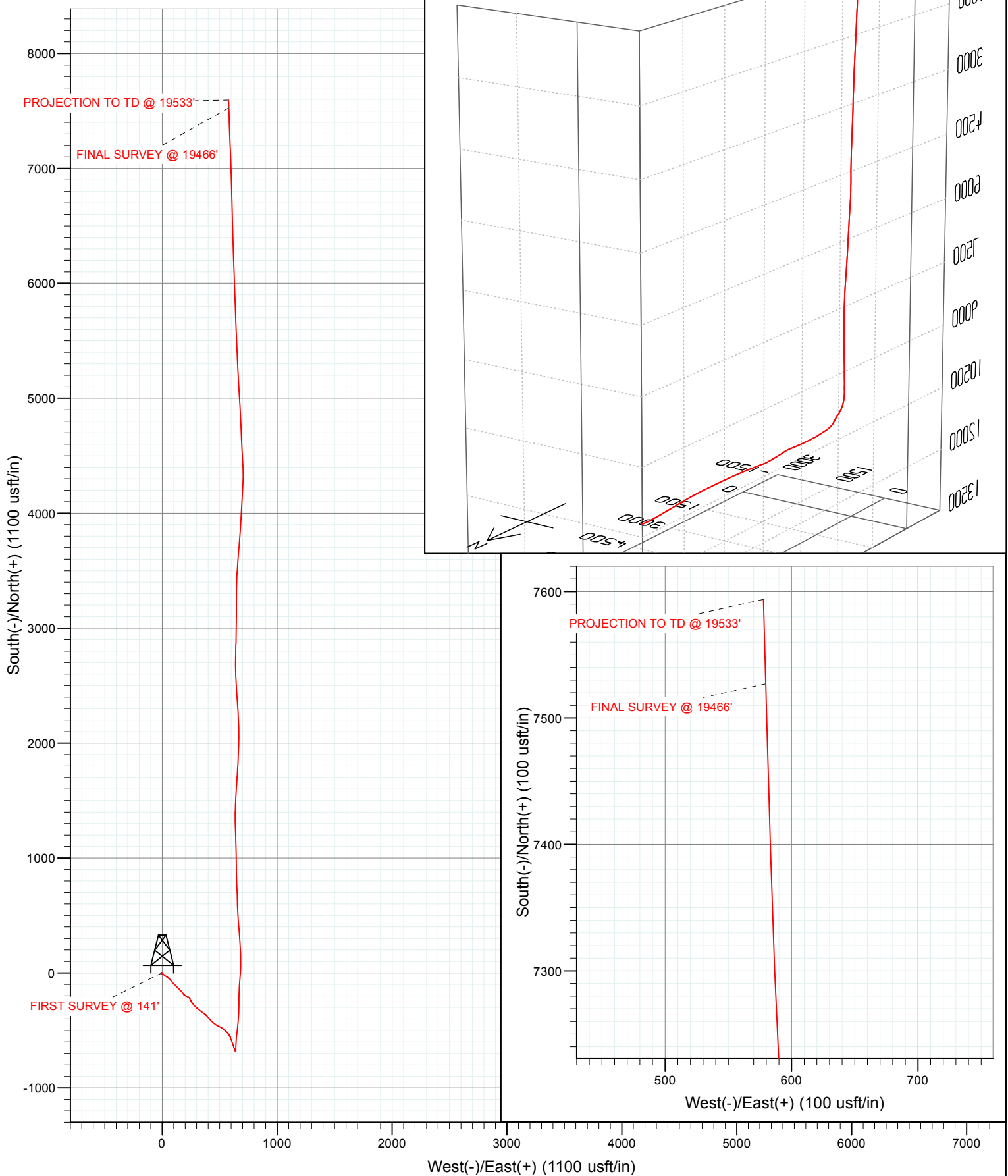
Kaiser-Francis Oil Company



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.05°

Magnetic Field
Strength: 47835.4nT
Dip Angle: 60.03°
Date: 12/31/2020
Model: HDGM_FILE

US State Plane 1983
New Mexico Eastern Zone
Project: Lea County, NM (NAD 83)
Site: SEC 6, T23S, R34E
Well: BELL LAKE UNIT NORTH 426H
Wellbore: HORIZONTAL
23.9' KB @ 3509.90usft (Cactus 171)
Ground Elevation: 3486.00
FINAL



Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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 6, T23S, R34E				
Site Position:		Northing:	484,136.67 usft	Latitude:	32° 19' 41.731 N
From:	Lat/Long	Easting:	796,546.17 usft	Longitude:	103° 30' 25.571 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.44 °

Well	BELL LAKE UNIT NORTH 426H					
Well Position	+N/-S	0.00 usft	Northing:	486,306.45 usft	Latitude:	32° 20' 3.399 N
	+E/-W	0.00 usft	Easting:	793,926.52 usft	Longitude:	103° 30' 55.907 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,486.00 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/31/2020	6.48	60.03	47,835.40000000

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	359.54	

Survey Program	Date	1/4/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.00	19,533.00	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 (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
141.00	0.48	325.00	141.00	0.48	-0.34	0.49	0.34	0.34	FIRST SURVEY @ 141'
240.00	0.70	329.64	239.99	1.35	-0.88	1.35	0.23	0.22	
334.00	0.83	327.46	333.98	2.41	-1.54	2.43	0.14	0.14	
427.00	0.58	311.72	426.98	3.30	-2.25	3.31	0.34	-0.27	
521.00	0.75	278.77	520.97	3.71	-3.22	3.73	0.44	0.18	
614.00	1.03	274.52	613.96	3.86	-4.65	3.90	0.31	0.30	
801.00	1.29	191.62	800.93	1.94	-6.75	1.99	0.83	0.14	
894.00	1.79	188.65	893.90	-0.53	-7.18	-0.47	0.54	0.54	
987.00	1.09	199.40	986.87	-2.80	-7.69	-2.73	0.80	-0.75	
1,081.00	1.21	210.00	1,080.85	-4.50	-8.48	-4.43	0.26	0.13	
1,143.00	1.33	225.07	1,142.84	-5.57	-9.32	-5.50	0.57	0.19	
1,277.00	1.22	260.65	1,276.80	-6.90	-11.83	-6.81	0.59	-0.08	

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 6, T23S, R34E
Well: BELL LAKE UNIT NORTH 426H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 426H
TVD Reference: 23.9' KB @ 3509.90usft (Cactus 171)
MD Reference: 23.9' KB @ 3509.90usft (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
1,371.00	1.76	114.75	1,370.79	-7.67	-11.51	-7.58	3.04	0.57	
1,466.00	2.98	96.83	1,465.71	-8.58	-7.73	-8.51	1.49	1.28	
1,561.00	1.89	93.67	1,560.62	-8.97	-3.71	-8.94	1.16	-1.15	
1,656.00	1.88	92.36	1,655.57	-9.13	-0.59	-9.13	0.05	-0.01	
1,751.00	1.81	87.88	1,750.52	-9.14	2.46	-9.16	0.17	-0.07	
1,846.00	3.97	120.45	1,845.40	-10.75	6.80	-10.81	2.77	2.27	
1,941.00	5.93	129.88	1,940.04	-15.57	13.40	-15.68	2.23	2.06	
2,035.00	5.60	126.43	2,033.57	-21.41	20.82	-21.57	0.51	-0.35	
2,130.00	5.41	124.44	2,128.13	-26.69	28.24	-26.92	0.28	-0.20	
2,225.00	5.07	121.53	2,222.73	-31.42	35.51	-31.70	0.45	-0.36	
2,320.00	6.18	123.48	2,317.27	-36.43	43.35	-36.78	1.19	1.17	
2,415.00	7.00	125.72	2,411.65	-42.64	52.32	-43.05	0.90	0.86	
2,510.00	7.90	137.86	2,505.85	-50.86	61.40	-51.35	1.90	0.95	
2,605.00	8.52	140.76	2,599.87	-61.15	70.23	-61.71	0.78	0.65	
2,699.00	8.06	139.42	2,692.89	-71.55	78.92	-72.18	0.53	-0.49	
2,795.00	8.17	138.63	2,787.93	-81.78	87.81	-82.48	0.16	0.11	
2,889.00	8.45	133.97	2,880.94	-91.58	97.19	-92.36	0.78	0.30	
2,984.00	8.53	132.36	2,974.90	-101.18	107.42	-102.04	0.26	0.08	
3,079.00	8.08	136.94	3,068.91	-110.80	117.19	-111.74	0.84	-0.47	
3,174.00	7.62	135.32	3,163.02	-120.16	126.18	-121.17	0.54	-0.48	
3,269.00	7.03	134.25	3,257.24	-128.69	134.77	-129.77	0.64	-0.62	
3,364.00	6.40	134.72	3,351.59	-136.48	142.70	-137.62	0.67	-0.66	
3,459.00	6.00	136.45	3,446.03	-143.80	149.88	-145.00	0.46	-0.42	
3,554.00	5.66	135.43	3,540.54	-150.74	156.59	-151.99	0.37	-0.36	
3,648.00	5.19	135.24	3,634.12	-157.06	162.83	-158.36	0.50	-0.50	
3,743.00	4.71	138.24	3,728.77	-163.02	168.46	-164.37	0.57	-0.51	
3,838.00	4.35	140.68	3,823.47	-168.72	173.34	-170.10	0.43	-0.38	
3,933.00	4.33	145.95	3,918.20	-174.47	177.63	-175.89	0.42	-0.02	
4,027.00	4.43	144.83	4,011.92	-180.38	181.71	-181.84	0.14	0.11	
4,122.00	4.56	141.27	4,106.63	-186.33	186.18	-187.82	0.32	0.14	
4,217.00	4.43	132.06	4,201.34	-191.73	191.27	-193.26	0.77	-0.14	
4,312.00	4.39	120.70	4,296.06	-196.05	197.12	-197.62	0.92	-0.04	
4,407.00	4.98	114.16	4,390.74	-199.59	204.01	-201.22	0.84	0.62	
4,502.00	4.73	113.66	4,485.40	-202.85	211.36	-204.54	0.27	-0.26	
4,596.00	4.23	115.97	4,579.12	-205.92	218.02	-207.67	0.57	-0.53	
4,691.00	3.69	117.09	4,673.89	-208.85	223.90	-210.64	0.57	-0.57	
4,786.00	3.25	122.19	4,768.71	-211.68	228.90	-213.51	0.57	-0.46	
4,881.00	3.03	122.90	4,863.57	-214.47	233.28	-216.34	0.24	-0.23	
4,910.00	2.90	125.00	4,892.53	-215.31	234.53	-217.19	0.58	-0.45	
5,060.00	3.25	151.06	5,042.32	-221.21	239.69	-223.13	0.95	0.23	
5,154.00	3.96	158.58	5,136.14	-226.56	242.17	-228.50	0.91	0.76	
5,249.00	4.00	156.55	5,230.91	-232.66	244.69	-234.61	0.15	0.04	
5,344.00	4.05	157.28	5,325.67	-238.79	247.30	-240.77	0.08	0.05	
5,439.00	6.07	148.45	5,420.30	-246.17	251.22	-248.17	2.27	2.13	
5,534.00	6.75	146.76	5,514.71	-255.12	256.91	-257.17	0.74	0.72	
5,629.00	6.70	144.57	5,609.05	-264.30	263.19	-266.41	0.28	-0.05	
5,723.00	6.35	140.91	5,702.44	-272.80	269.64	-274.96	0.58	-0.37	
5,818.00	5.99	138.35	5,796.89	-280.59	276.25	-282.79	0.48	-0.38	
5,913.00	6.03	137.09	5,891.37	-287.94	282.94	-290.21	0.15	0.04	
6,008.00	5.90	135.05	5,985.86	-295.05	289.79	-297.37	0.26	-0.14	
6,103.00	5.95	133.23	6,080.35	-301.88	296.83	-304.26	0.20	0.05	
6,198.00	7.56	128.90	6,174.69	-309.18	305.28	-311.62	1.78	1.69	
6,292.00	8.77	128.52	6,267.73	-317.53	315.70	-320.05	1.29	1.29	

Kaiser-Francis Oil Company

Survey Report



Company: Kaiser-Francis Oil Co.
Project: Lea County, NM (NAD 83)
Site: SEC 6, T23S, R34E
Well: BELL LAKE UNIT NORTH 426H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 426H
TVD Reference: 23.9' KB @ 3509.90usft (Cactus 171)
MD Reference: 23.9' KB @ 3509.90usft (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
6,387.00	8.67	127.06	6,361.64	-326.35	327.08	-328.97	0.26	-0.11	
6,482.00	8.33	126.86	6,455.59	-334.79	338.30	-337.50	0.36	-0.36	
6,577.00	8.16	126.27	6,549.61	-342.91	349.24	-345.70	0.20	-0.18	
6,671.00	8.19	125.94	6,642.66	-350.79	360.04	-353.67	0.06	0.03	
6,766.00	8.25	125.39	6,736.68	-358.71	371.07	-361.67	0.10	0.06	
6,861.00	8.97	135.90	6,830.61	-367.97	381.78	-371.03	1.82	0.76	
6,956.00	9.44	138.61	6,924.39	-379.14	392.09	-382.27	0.67	0.49	
7,051.00	9.24	138.20	7,018.13	-390.67	402.32	-393.88	0.22	-0.21	
7,145.00	9.06	136.59	7,110.94	-401.67	412.44	-404.97	0.33	-0.19	
7,240.00	8.73	135.79	7,204.79	-412.27	422.61	-415.65	0.37	-0.35	
7,335.00	8.06	132.88	7,298.77	-421.97	432.51	-425.43	0.83	-0.71	
7,430.00	7.74	132.72	7,392.87	-430.84	442.09	-434.38	0.34	-0.34	
7,525.00	7.65	127.34	7,487.02	-439.02	451.82	-442.63	0.76	-0.09	
7,619.00	7.43	125.28	7,580.21	-446.32	461.76	-450.02	0.37	-0.23	
7,714.00	6.95	122.61	7,674.46	-452.97	471.61	-456.74	0.62	-0.51	
7,809.00	6.60	118.06	7,768.80	-458.63	481.27	-462.48	0.67	-0.37	
7,904.00	6.48	117.53	7,863.18	-463.68	490.85	-467.61	0.14	-0.13	
7,999.00	6.62	117.27	7,957.56	-468.67	500.47	-472.67	0.15	0.15	
8,093.00	6.48	118.60	8,050.94	-473.69	509.94	-477.77	0.22	-0.15	
8,188.00	6.27	116.48	8,145.36	-478.57	519.29	-482.72	0.33	-0.22	
8,283.00	6.01	134.35	8,239.82	-484.36	527.49	-488.58	2.02	-0.27	
8,378.00	6.25	135.09	8,334.28	-491.50	534.70	-495.77	0.27	0.25	
8,472.00	6.23	131.47	8,427.72	-498.50	542.13	-502.83	0.42	-0.02	
8,567.00	5.94	126.20	8,522.19	-504.82	549.96	-509.21	0.66	-0.31	
8,662.00	6.44	134.96	8,616.63	-511.48	557.70	-515.94	1.12	0.53	
8,757.00	6.04	131.11	8,711.07	-518.53	565.23	-523.06	0.61	-0.42	
8,852.00	5.59	142.37	8,805.59	-525.48	571.82	-530.06	1.29	-0.47	
8,947.00	5.37	144.09	8,900.15	-532.75	577.26	-537.37	0.29	-0.23	
9,041.00	4.77	136.98	8,993.78	-539.17	582.50	-543.83	0.92	-0.64	
9,136.00	4.80	157.89	9,088.46	-545.74	586.69	-550.43	1.83	0.03	
9,231.00	4.23	152.95	9,183.17	-552.54	589.78	-557.26	0.73	-0.60	
9,326.00	5.54	161.41	9,277.82	-560.01	592.84	-564.75	1.57	1.38	
9,421.00	5.92	161.00	9,372.34	-568.99	595.90	-573.76	0.40	0.40	
9,516.00	5.88	159.78	9,466.84	-578.19	599.17	-582.98	0.14	-0.04	
9,611.00	5.61	160.66	9,561.36	-587.14	602.39	-591.95	0.30	-0.28	
9,706.00	5.47	160.55	9,655.92	-595.79	605.44	-600.63	0.15	-0.15	
9,801.00	5.22	160.11	9,750.51	-604.12	608.42	-608.99	0.27	-0.26	
9,895.00	4.88	159.61	9,844.14	-611.89	611.26	-616.78	0.36	-0.36	
9,990.00	4.47	158.41	9,938.83	-619.12	614.03	-624.03	0.44	-0.43	
10,085.00	6.69	163.70	10,033.37	-627.87	616.95	-632.81	2.40	2.34	
10,180.00	6.72	163.28	10,127.72	-638.51	620.10	-643.47	0.06	0.03	
10,275.00	5.45	158.46	10,222.18	-648.03	623.36	-653.01	1.44	-1.34	
10,370.00	4.97	149.69	10,316.79	-655.78	627.09	-660.79	0.98	-0.51	
10,465.00	3.69	166.34	10,411.52	-662.30	629.89	-667.34	1.88	-1.35	
10,560.00	3.47	165.73	10,506.34	-668.06	631.32	-673.10	0.24	-0.23	
10,654.00	2.36	155.88	10,600.22	-672.58	632.81	-677.64	1.29	-1.18	
10,749.00	2.72	147.85	10,695.12	-676.27	634.81	-681.35	0.53	0.38	
10,858.00	4.17	146.80	10,803.92	-681.78	638.36	-686.88	1.33	1.33	
10,953.00	3.86	353.82	10,898.84	-681.49	639.91	-686.61	8.22	-0.33	
11,000.00	15.95	3.01	10,945.05	-673.44	640.08	-678.56	25.86	25.72	
11,048.00	23.13	0.39	10,990.26	-657.40	640.49	-662.53	15.07	14.96	
11,143.00	27.81	1.70	11,076.00	-616.57	641.27	-621.70	4.96	4.93	
11,238.00	37.83	5.85	11,155.75	-565.30	644.91	-570.46	10.80	10.55	

Kaiser-Francis Oil Company

Survey Report



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Project: Lea County, NM (NAD 83)
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Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 426H
TVD Reference: 23.9' KB @ 3509.90usft (Cactus 171)
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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
11,332.00	51.02	6.83	11,222.73	-500.06	652.22	-505.28	14.05	14.03	
11,427.00	52.19	5.27	11,281.73	-426.02	660.06	-431.31	1.78	1.23	
11,522.00	47.78	3.51	11,342.81	-353.51	665.67	-358.84	4.85	-4.64	
11,617.00	53.03	359.99	11,403.34	-280.38	667.82	-285.73	6.22	5.53	
11,712.00	61.45	359.85	11,454.71	-200.56	667.70	-205.92	8.86	8.86	
11,807.00	72.15	4.79	11,492.09	-113.48	671.38	-118.87	12.23	11.26	
11,902.00	80.90	4.42	11,514.21	-21.49	678.78	-26.94	9.22	9.21	
11,996.00	83.01	1.16	11,527.37	71.46	683.31	65.97	4.10	2.24	
12,091.00	86.38	357.69	11,536.15	166.02	682.35	160.54	5.08	3.55	
12,186.00	91.91	355.99	11,537.57	260.82	677.11	255.38	6.09	5.82	
12,281.00	85.49	355.18	11,539.72	355.47	669.81	350.08	6.81	-6.76	
12,376.00	87.34	355.54	11,545.66	449.97	662.14	444.64	1.98	1.95	
12,507.00	93.17	358.34	11,545.08	580.71	655.15	575.43	4.94	4.45	
12,602.00	89.55	357.90	11,542.83	675.62	652.03	670.36	3.84	-3.81	
12,697.00	90.50	358.04	11,542.79	770.56	648.67	765.32	1.01	1.00	
12,792.00	91.15	359.22	11,541.42	865.52	646.40	860.30	1.42	0.68	
12,886.00	91.29	358.99	11,539.42	959.48	644.93	954.27	0.29	0.15	
12,981.00	91.90	358.70	11,536.77	1,054.43	643.01	1,049.23	0.71	0.64	
13,076.00	92.04	358.44	11,533.51	1,149.34	640.64	1,144.16	0.31	0.15	
13,171.00	91.85	357.82	11,530.28	1,244.23	637.55	1,239.08	0.68	-0.20	
13,266.00	92.30	359.27	11,526.84	1,339.14	635.14	1,334.00	1.60	0.47	
13,361.00	93.14	2.12	11,522.33	1,434.01	636.29	1,428.86	3.12	0.88	
13,455.00	91.15	3.03	11,518.82	1,527.85	640.51	1,522.66	2.33	-2.12	
13,550.00	89.41	3.91	11,518.35	1,622.67	646.26	1,617.43	2.05	-1.83	
13,645.00	86.81	3.61	11,521.48	1,717.40	652.48	1,712.11	2.75	-2.74	
13,740.00	83.78	3.09	11,529.28	1,811.91	658.01	1,806.57	3.24	-3.19	
13,835.00	83.06	2.36	11,540.16	1,906.18	662.50	1,900.80	1.08	-0.76	
13,930.00	84.16	1.49	11,550.73	2,000.53	665.67	1,995.12	1.47	1.16	
14,025.00	85.24	359.35	11,559.51	2,095.12	666.36	2,089.70	2.51	1.14	
14,120.00	88.18	357.40	11,564.96	2,189.91	663.67	2,184.51	3.71	3.09	
14,215.00	89.75	357.11	11,566.68	2,284.78	659.12	2,279.41	1.68	1.65	
14,310.00	89.47	355.76	11,567.33	2,379.59	653.22	2,374.27	1.45	-0.29	
14,404.00	90.08	354.71	11,567.69	2,473.26	645.41	2,468.00	1.29	0.65	
14,499.00	90.28	357.79	11,567.40	2,568.05	639.20	2,562.83	3.25	0.21	
14,594.00	92.97	0.39	11,564.70	2,662.98	637.69	2,657.77	3.94	2.83	
14,689.00	94.07	1.12	11,558.87	2,757.79	638.94	2,752.57	1.39	1.16	
14,784.00	93.92	1.14	11,552.25	2,852.54	640.80	2,847.30	0.16	-0.16	
14,879.00	92.18	1.34	11,547.20	2,947.38	642.86	2,942.12	1.84	-1.83	
14,973.00	92.19	1.02	11,543.61	3,041.29	644.79	3,036.02	0.34	0.01	
15,068.00	92.38	0.51	11,539.82	3,136.21	646.06	3,130.92	0.57	0.20	
15,163.00	94.11	359.57	11,534.45	3,231.05	646.13	3,225.76	2.07	1.82	
15,258.00	93.03	0.57	11,528.53	3,325.86	646.24	3,320.57	1.55	-1.14	
15,353.00	93.08	2.08	11,523.47	3,420.70	648.44	3,415.38	1.59	0.05	
15,447.00	90.20	4.14	11,520.78	3,514.51	653.53	3,509.15	3.77	-3.06	
15,542.00	89.33	4.29	11,521.17	3,609.25	660.52	3,603.83	0.93	-0.92	
15,637.00	90.36	4.84	11,521.42	3,703.95	668.08	3,698.46	1.23	1.08	
15,732.00	89.78	4.02	11,521.31	3,798.66	675.42	3,793.12	1.06	-0.61	
15,827.00	90.31	3.83	11,521.23	3,893.44	681.92	3,887.84	0.59	0.56	
15,922.00	88.21	3.39	11,522.46	3,988.24	687.90	3,982.59	2.26	-2.21	
16,017.00	88.34	2.88	11,525.32	4,083.05	693.09	4,077.35	0.55	0.14	
16,112.00	86.94	2.79	11,529.23	4,177.85	697.79	4,172.11	1.48	-1.47	
16,206.00	87.93	3.16	11,533.44	4,271.63	702.66	4,265.85	1.12	1.05	
16,301.00	91.43	358.68	11,533.97	4,366.58	704.18	4,360.78	5.98	3.68	

Kaiser-Francis Oil Company

Survey Report



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Project: Lea County, NM (NAD 83)
Site: SEC 6, T23S, R34E
Well: BELL LAKE UNIT NORTH 426H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 426H
TVD Reference: 23.9' KB @ 3509.90usft (Cactus 171)
MD Reference: 23.9' KB @ 3509.90usft (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
16,395.00	93.42	356.46	11,529.99	4,460.40	700.20	4,454.63	3.17	2.12	
16,490.00	93.81	357.04	11,524.00	4,555.06	694.83	4,549.33	0.73	0.41	
16,585.00	93.92	357.39	11,517.60	4,649.73	690.22	4,644.04	0.39	0.12	
16,680.00	94.01	357.35	11,511.03	4,744.40	685.88	4,738.74	0.10	0.09	
16,775.00	90.78	357.13	11,507.06	4,839.19	681.31	4,833.57	3.41	-3.40	
16,870.00	91.74	357.11	11,504.97	4,934.05	676.53	4,928.46	1.01	1.01	
16,965.00	91.32	356.22	11,502.43	5,028.85	671.01	5,023.31	1.04	-0.44	
17,059.00	91.68	356.28	11,499.97	5,122.62	664.86	5,117.12	0.39	0.38	
17,154.00	90.92	357.48	11,497.82	5,217.45	659.69	5,211.99	1.49	-0.80	
17,249.00	90.53	357.93	11,496.62	5,312.37	655.89	5,306.93	0.63	-0.41	
17,344.00	90.39	357.29	11,495.85	5,407.28	651.93	5,401.87	0.69	-0.15	
17,439.00	90.70	357.04	11,494.95	5,502.16	647.23	5,496.79	0.42	0.33	
17,533.00	88.88	357.60	11,495.29	5,596.05	642.83	5,590.71	2.03	-1.94	
17,628.00	88.71	357.84	11,497.29	5,690.96	639.06	5,685.64	0.31	-0.18	
17,723.00	89.13	358.42	11,499.08	5,785.89	635.96	5,780.60	0.75	0.44	
17,818.00	88.66	358.03	11,500.92	5,880.83	633.02	5,875.55	0.64	-0.49	
17,913.00	88.24	357.93	11,503.49	5,975.73	629.67	5,970.48	0.45	-0.44	
18,008.00	88.29	357.95	11,506.36	6,070.63	626.25	6,065.40	0.06	0.05	
18,102.00	88.01	357.88	11,509.40	6,164.52	622.84	6,159.32	0.31	-0.30	
18,197.00	87.81	357.72	11,512.86	6,259.38	619.19	6,254.21	0.27	-0.21	
18,292.00	88.29	358.27	11,516.09	6,354.27	615.87	6,349.12	0.77	0.51	
18,387.00	87.95	358.42	11,519.21	6,449.18	613.13	6,444.05	0.39	-0.36	
18,481.00	87.22	358.57	11,523.17	6,543.06	610.66	6,537.95	0.79	-0.78	
18,576.00	86.72	358.78	11,528.19	6,637.90	608.47	6,632.80	0.57	-0.53	
18,671.00	88.91	358.09	11,531.81	6,732.79	605.87	6,727.71	2.42	2.31	
18,766.00	87.79	358.56	11,534.55	6,827.71	603.10	6,822.65	1.28	-1.18	
18,861.00	89.52	358.84	11,536.78	6,922.66	600.94	6,917.61	1.84	1.82	
18,956.00	89.47	358.39	11,537.62	7,017.62	598.65	7,012.59	0.48	-0.05	
19,051.00	87.70	357.71	11,539.96	7,112.54	595.42	7,107.53	2.00	-1.86	
19,145.00	88.82	356.82	11,542.82	7,206.38	590.93	7,201.41	1.52	1.19	
19,240.00	92.07	358.07	11,542.08	7,301.27	586.70	7,296.33	3.67	3.42	
19,335.00	92.86	358.05	11,537.99	7,396.13	583.49	7,391.21	0.83	0.83	
19,430.00	92.77	358.50	11,533.33	7,490.97	580.63	7,486.07	0.48	-0.09	
19,466.00	92.63	358.44	11,531.63	7,526.92	579.67	7,522.02	0.42	-0.39	FINAL SURVEY @ 19466'
19,533.00	92.63	358.44	11,528.56	7,593.82	577.85	7,588.94	0.00	0.00	PROJECTION TO TD @ 19533'

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
141.00	141.00	0.48	-0.34	FIRST SURVEY @ 141'
19,466.00	11,531.63	7,526.92	579.67	FINAL SURVEY @ 19466'
19,533.00	11,528.56	7,593.82	577.85	PROJECTION TO TD @ 19533'

Checked By: _____ Approved By: _____ Date: _____

Kaiser-Francis Oil Company

Kaiser-Francis Oil Co.

Lea County, NM (NAD 83)
SEC 6, T23S, R34E
BELL LAKE UNIT NORTH 426H

HORIZONTAL

Design: FINAL

Survey Report - Geographic

04 January, 2021



Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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 6, T23S, R34E		
Site Position:		Northing:	484,136.67 usft
From:	Lat/Long	Easting:	796,546.16 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 41.731 N
		Longitude:	103° 30' 25.571 W
		Grid Convergence:	0.44 °

Well	BELL LAKE UNIT NORTH 426H		
Well Position	+N/-S	0.00 usft	Northing: 486,306.45 usft
	+E/-W	0.00 usft	Easting: 793,926.52 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 20' 3.399 N
		Longitude:	103° 30' 55.907 W
		Ground Level:	3,486.00 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/31/2020	6.48	60.03	47,835.40000000

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	359.54	

Survey Program	Date	1/4/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.00	19,533.00	GT MWD (HORIZONTAL)	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	486,306.45	793,926.52	32° 20' 3.399 N	103° 30' 55.907 W
141.00	0.48	325.00	141.00	0.48	-0.34	486,306.93	793,926.18	32° 20' 3.404 N	103° 30' 55.911 W
FIRST SURVEY @ 141'									
240.00	0.70	329.64	239.99	1.35	-0.88	486,307.80	793,925.64	32° 20' 3.413 N	103° 30' 55.917 W
334.00	0.83	327.46	333.98	2.41	-1.54	486,308.87	793,924.98	32° 20' 3.423 N	103° 30' 55.924 W
427.00	0.58	311.72	426.98	3.30	-2.25	486,309.75	793,924.27	32° 20' 3.432 N	103° 30' 55.933 W
521.00	0.75	278.77	520.97	3.71	-3.22	486,310.16	793,923.30	32° 20' 3.436 N	103° 30' 55.944 W
614.00	1.03	274.52	613.96	3.86	-4.65	486,310.32	793,921.87	32° 20' 3.438 N	103° 30' 55.961 W
801.00	1.29	191.62	800.93	1.94	-6.75	486,308.39	793,919.77	32° 20' 3.419 N	103° 30' 55.985 W
894.00	1.79	188.65	893.90	-0.53	-7.18	486,305.92	793,919.34	32° 20' 3.395 N	103° 30' 55.990 W
987.00	1.09	199.40	986.87	-2.80	-7.69	486,303.65	793,918.83	32° 20' 3.372 N	103° 30' 55.997 W
1,081.00	1.21	210.00	1,080.85	-4.50	-8.48	486,301.95	793,918.03	32° 20' 3.355 N	103° 30' 56.006 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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
1,143.00	1.33	225.07	1,142.84	-5.57	-9.32	486,300.88	793,917.20	32° 20' 3.345 N	103° 30' 56.016 W
1,277.00	1.22	260.65	1,276.80	-6.90	-11.83	486,299.55	793,914.69	32° 20' 3.332 N	103° 30' 56.045 W
1,371.00	1.76	114.75	1,370.79	-7.67	-11.51	486,298.78	793,915.01	32° 20' 3.324 N	103° 30' 56.042 W
1,466.00	2.98	96.83	1,465.71	-8.58	-7.73	486,297.88	793,918.79	32° 20' 3.315 N	103° 30' 55.998 W
1,561.00	1.89	93.67	1,560.62	-8.97	-3.71	486,297.48	793,922.80	32° 20' 3.311 N	103° 30' 55.951 W
1,656.00	1.88	92.36	1,655.57	-9.13	-0.59	486,297.32	793,925.92	32° 20' 3.309 N	103° 30' 55.914 W
1,751.00	1.81	87.88	1,750.52	-9.14	2.46	486,297.31	793,928.98	32° 20' 3.309 N	103° 30' 55.879 W
1,846.00	3.97	120.45	1,845.40	-10.75	6.80	486,295.70	793,933.32	32° 20' 3.292 N	103° 30' 55.828 W
1,941.00	5.93	129.88	1,940.04	-15.57	13.40	486,290.88	793,939.92	32° 20' 3.244 N	103° 30' 55.752 W
2,035.00	5.60	126.43	2,033.57	-21.41	20.82	486,285.05	793,947.33	32° 20' 3.186 N	103° 30' 55.666 W
2,130.00	5.41	124.44	2,128.13	-26.69	28.24	486,279.76	793,954.76	32° 20' 3.133 N	103° 30' 55.580 W
2,225.00	5.07	121.53	2,222.73	-31.42	35.51	486,275.03	793,962.03	32° 20' 3.086 N	103° 30' 55.496 W
2,320.00	6.18	123.48	2,317.27	-36.43	43.35	486,270.02	793,969.87	32° 20' 3.035 N	103° 30' 55.405 W
2,415.00	7.00	125.72	2,411.65	-42.64	52.32	486,263.82	793,978.84	32° 20' 2.973 N	103° 30' 55.301 W
2,510.00	7.90	137.86	2,505.85	-50.86	61.40	486,255.59	793,987.92	32° 20' 2.891 N	103° 30' 55.196 W
2,605.00	8.52	140.76	2,599.87	-61.15	70.23	486,245.30	793,996.75	32° 20' 2.789 N	103° 30' 55.094 W
2,699.00	8.06	139.42	2,692.89	-71.55	78.92	486,234.90	794,005.44	32° 20' 2.685 N	103° 30' 54.993 W
2,795.00	8.17	138.63	2,787.93	-81.78	87.81	486,224.67	794,014.33	32° 20' 2.583 N	103° 30' 54.891 W
2,889.00	8.45	133.97	2,880.94	-91.58	97.19	486,214.87	794,023.71	32° 20' 2.486 N	103° 30' 54.782 W
2,984.00	8.53	132.36	2,974.90	-101.18	107.42	486,205.27	794,033.94	32° 20' 2.390 N	103° 30' 54.664 W
3,079.00	8.08	136.94	3,068.91	-110.80	117.19	486,195.65	794,043.71	32° 20' 2.294 N	103° 30' 54.551 W
3,174.00	7.62	135.32	3,163.02	-120.16	126.18	486,186.29	794,052.69	32° 20' 2.201 N	103° 30' 54.447 W
3,269.00	7.03	134.25	3,257.24	-128.69	134.77	486,177.76	794,061.29	32° 20' 2.116 N	103° 30' 54.348 W
3,364.00	6.40	134.72	3,351.59	-136.48	142.70	486,169.97	794,069.21	32° 20' 2.038 N	103° 30' 54.256 W
3,459.00	6.00	136.45	3,446.03	-143.80	149.88	486,162.65	794,076.40	32° 20' 1.965 N	103° 30' 54.173 W
3,554.00	5.66	135.43	3,540.54	-150.74	156.59	486,155.71	794,083.10	32° 20' 1.896 N	103° 30' 54.095 W
3,648.00	5.19	135.24	3,634.12	-157.06	162.83	486,149.39	794,089.35	32° 20' 1.833 N	103° 30' 54.023 W
3,743.00	4.71	138.24	3,728.77	-163.02	168.46	486,143.43	794,094.97	32° 20' 1.773 N	103° 30' 53.958 W
3,838.00	4.35	140.68	3,823.47	-168.72	173.34	486,137.74	794,099.86	32° 20' 1.717 N	103° 30' 53.902 W
3,933.00	4.33	145.95	3,918.20	-174.47	177.63	486,131.98	794,104.15	32° 20' 1.659 N	103° 30' 53.852 W
4,027.00	4.43	144.83	4,011.92	-180.38	181.71	486,126.07	794,108.22	32° 20' 1.601 N	103° 30' 53.805 W
4,122.00	4.56	141.27	4,106.63	-186.33	186.18	486,120.12	794,112.70	32° 20' 1.541 N	103° 30' 53.753 W
4,217.00	4.43	132.06	4,201.34	-191.73	191.27	486,114.72	794,117.79	32° 20' 1.488 N	103° 30' 53.695 W
4,312.00	4.39	120.70	4,296.06	-196.05	197.12	486,110.41	794,123.64	32° 20' 1.444 N	103° 30' 53.627 W
4,407.00	4.98	114.16	4,390.74	-199.59	204.01	486,106.86	794,130.53	32° 20' 1.409 N	103° 30' 53.547 W
4,502.00	4.73	113.66	4,485.40	-202.85	211.36	486,103.60	794,137.88	32° 20' 1.376 N	103° 30' 53.462 W
4,596.00	4.23	115.97	4,579.12	-205.92	218.02	486,100.53	794,144.54	32° 20' 1.345 N	103° 30' 53.384 W
4,691.00	3.69	117.09	4,673.89	-208.85	223.90	486,097.60	794,150.41	32° 20' 1.316 N	103° 30' 53.316 W
4,786.00	3.25	122.19	4,768.71	-211.68	228.90	486,094.78	794,155.41	32° 20' 1.287 N	103° 30' 53.258 W
4,881.00	3.03	122.90	4,863.57	-214.47	233.28	486,091.98	794,159.80	32° 20' 1.259 N	103° 30' 53.207 W
4,910.00	2.90	125.00	4,892.53	-215.31	234.53	486,091.14	794,161.05	32° 20' 1.251 N	103° 30' 53.193 W
5,060.00	3.25	151.06	5,042.32	-221.21	239.69	486,085.24	794,166.21	32° 20' 1.192 N	103° 30' 53.133 W
5,154.00	3.96	158.58	5,136.14	-226.56	242.17	486,079.89	794,168.69	32° 20' 1.139 N	103° 30' 53.105 W
5,249.00	4.00	156.55	5,230.91	-232.66	244.69	486,073.80	794,171.20	32° 20' 1.079 N	103° 30' 53.076 W
5,344.00	4.05	157.28	5,325.67	-238.79	247.30	486,067.66	794,173.82	32° 20' 1.018 N	103° 30' 53.046 W
5,439.00	6.07	148.45	5,420.30	-246.17	251.22	486,060.29	794,177.74	32° 20' 0.944 N	103° 30' 53.001 W
5,534.00	6.75	146.76	5,514.71	-255.12	256.91	486,051.34	794,183.43	32° 20' 0.855 N	103° 30' 52.935 W
5,629.00	6.70	144.57	5,609.05	-264.30	263.19	486,042.15	794,189.70	32° 20' 0.764 N	103° 30' 52.863 W
5,723.00	6.35	140.91	5,702.44	-272.80	269.64	486,033.65	794,196.16	32° 20' 0.679 N	103° 30' 52.788 W
5,818.00	5.99	138.35	5,796.89	-280.59	276.25	486,025.87	794,202.77	32° 20' 0.602 N	103° 30' 52.712 W
5,913.00	6.03	137.09	5,891.37	-287.94	282.94	486,018.51	794,209.46	32° 20' 0.529 N	103° 30' 52.635 W
6,008.00	5.90	135.05	5,985.86	-295.05	289.79	486,011.40	794,216.31	32° 20' 0.458 N	103° 30' 52.556 W
6,103.00	5.95	133.23	6,080.35	-301.88	296.83	486,004.57	794,223.34	32° 20' 0.390 N	103° 30' 52.474 W
6,198.00	7.56	128.90	6,174.69	-309.18	305.28	485,997.27	794,231.79	32° 20' 0.317 N	103° 30' 52.376 W
6,292.00	8.77	128.52	6,267.73	-317.53	315.70	485,988.93	794,242.21	32° 20' 0.233 N	103° 30' 52.256 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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
6,387.00	8.67	127.06	6,361.64	-326.35	327.08	485,980.10	794,253.59	32° 20' 0.145 N	103° 30' 52.124 W
6,482.00	8.33	126.86	6,455.59	-334.79	338.30	485,971.66	794,264.81	32° 20' 0.061 N	103° 30' 51.994 W
6,577.00	8.16	126.27	6,549.61	-342.91	349.24	485,963.54	794,275.76	32° 19' 59.980 N	103° 30' 51.867 W
6,671.00	8.19	125.94	6,642.66	-350.79	360.04	485,955.66	794,286.56	32° 19' 59.901 N	103° 30' 51.742 W
6,766.00	8.25	125.39	6,736.68	-358.71	371.07	485,947.74	794,297.59	32° 19' 59.822 N	103° 30' 51.614 W
6,861.00	8.97	135.90	6,830.61	-367.97	381.78	485,938.48	794,308.30	32° 19' 59.729 N	103° 30' 51.490 W
6,956.00	9.44	138.61	6,924.39	-379.14	392.09	485,927.31	794,318.61	32° 19' 59.618 N	103° 30' 51.371 W
7,051.00	9.24	138.20	7,018.13	-390.67	402.32	485,915.78	794,328.84	32° 19' 59.503 N	103° 30' 51.253 W
7,145.00	9.06	136.59	7,110.94	-401.67	412.44	485,904.78	794,338.96	32° 19' 59.394 N	103° 30' 51.136 W
7,240.00	8.73	135.79	7,204.79	-412.27	422.61	485,894.18	794,349.12	32° 19' 59.288 N	103° 30' 51.018 W
7,335.00	8.06	132.88	7,298.77	-421.97	432.51	485,884.48	794,359.03	32° 19' 59.191 N	103° 30' 50.904 W
7,430.00	7.74	132.72	7,392.87	-430.84	442.09	485,875.61	794,368.61	32° 19' 59.103 N	103° 30' 50.793 W
7,525.00	7.65	127.34	7,487.02	-439.02	451.82	485,867.43	794,378.34	32° 19' 59.021 N	103° 30' 50.680 W
7,619.00	7.43	125.28	7,580.21	-446.32	461.76	485,860.13	794,388.28	32° 19' 58.948 N	103° 30' 50.565 W
7,714.00	6.95	122.61	7,674.46	-452.97	471.61	485,853.48	794,398.13	32° 19' 58.882 N	103° 30' 50.451 W
7,809.00	6.60	118.06	7,768.80	-458.63	481.27	485,847.82	794,407.79	32° 19' 58.825 N	103° 30' 50.339 W
7,904.00	6.48	117.53	7,863.18	-463.68	490.85	485,842.77	794,417.36	32° 19' 58.774 N	103° 30' 50.227 W
7,999.00	6.62	117.27	7,957.56	-468.67	500.47	485,837.78	794,426.98	32° 19' 58.724 N	103° 30' 50.116 W
8,093.00	6.48	118.60	8,050.94	-473.69	509.94	485,832.76	794,436.46	32° 19' 58.674 N	103° 30' 50.006 W
8,188.00	6.27	116.48	8,145.36	-478.57	519.29	485,827.88	794,445.81	32° 19' 58.625 N	103° 30' 49.897 W
8,283.00	6.01	134.35	8,239.82	-484.36	527.49	485,822.09	794,454.01	32° 19' 58.567 N	103° 30' 49.802 W
8,378.00	6.25	135.09	8,334.28	-491.50	534.70	485,814.95	794,461.21	32° 19' 58.495 N	103° 30' 49.719 W
8,472.00	6.23	131.47	8,427.72	-498.50	542.13	485,807.95	794,468.65	32° 19' 58.426 N	103° 30' 49.633 W
8,567.00	5.94	126.20	8,522.19	-504.82	549.96	485,801.64	794,476.48	32° 19' 58.363 N	103° 30' 49.542 W
8,662.00	6.44	134.96	8,616.63	-511.48	557.70	485,794.97	794,484.22	32° 19' 58.296 N	103° 30' 49.453 W
8,757.00	6.04	131.11	8,711.07	-518.53	565.23	485,787.92	794,491.75	32° 19' 58.226 N	103° 30' 49.365 W
8,852.00	5.59	142.37	8,805.59	-525.48	571.82	485,780.97	794,498.34	32° 19' 58.156 N	103° 30' 49.289 W
8,947.00	5.37	144.09	8,900.15	-532.75	577.26	485,773.70	794,503.77	32° 19' 58.084 N	103° 30' 49.227 W
9,041.00	4.77	136.98	8,993.78	-539.17	582.50	485,767.28	794,509.02	32° 19' 58.020 N	103° 30' 49.166 W
9,136.00	4.80	157.89	9,088.46	-545.74	586.69	485,760.71	794,513.21	32° 19' 57.955 N	103° 30' 49.118 W
9,231.00	4.23	152.95	9,183.17	-552.54	589.78	485,753.91	794,516.30	32° 19' 57.887 N	103° 30' 49.082 W
9,326.00	5.54	161.41	9,277.82	-560.01	592.84	485,746.44	794,519.36	32° 19' 57.813 N	103° 30' 49.047 W
9,421.00	5.92	161.00	9,372.34	-568.99	595.90	485,737.46	794,522.41	32° 19' 57.724 N	103° 30' 49.013 W
9,516.00	5.88	159.78	9,466.84	-578.19	599.17	485,728.26	794,525.69	32° 19' 57.633 N	103° 30' 48.975 W
9,611.00	5.61	160.66	9,561.36	-587.14	602.39	485,719.32	794,528.91	32° 19' 57.544 N	103° 30' 48.938 W
9,706.00	5.47	160.55	9,655.92	-595.79	605.44	485,710.66	794,531.96	32° 19' 57.458 N	103° 30' 48.904 W
9,801.00	5.22	160.11	9,750.51	-604.12	608.42	485,702.33	794,534.93	32° 19' 57.376 N	103° 30' 48.870 W
9,895.00	4.88	159.61	9,844.14	-611.89	611.26	485,694.56	794,537.78	32° 19' 57.298 N	103° 30' 48.837 W
9,990.00	4.47	158.41	9,938.83	-619.12	614.03	485,687.33	794,540.55	32° 19' 57.227 N	103° 30' 48.806 W
10,085.00	6.69	163.70	10,033.37	-627.87	616.95	485,678.58	794,543.47	32° 19' 57.140 N	103° 30' 48.772 W
10,180.00	6.72	163.28	10,127.72	-638.51	620.10	485,667.94	794,546.62	32° 19' 57.034 N	103° 30' 48.737 W
10,275.00	5.45	158.46	10,222.18	-648.03	623.36	485,658.42	794,549.88	32° 19' 56.940 N	103° 30' 48.700 W
10,370.00	4.97	149.69	10,316.79	-655.78	627.09	485,650.67	794,553.61	32° 19' 56.863 N	103° 30' 48.657 W
10,465.00	3.69	166.34	10,411.52	-662.30	629.89	485,644.15	794,556.41	32° 19' 56.798 N	103° 30' 48.625 W
10,560.00	3.47	165.73	10,506.34	-668.06	631.32	485,638.39	794,557.84	32° 19' 56.741 N	103° 30' 48.609 W
10,654.00	2.36	155.88	10,600.22	-672.58	632.81	485,633.87	794,559.33	32° 19' 56.696 N	103° 30' 48.592 W
10,749.00	2.72	147.85	10,695.12	-676.27	634.81	485,630.18	794,561.33	32° 19' 56.660 N	103° 30' 48.569 W
10,858.00	4.17	146.80	10,803.92	-681.78	638.36	485,624.67	794,564.88	32° 19' 56.605 N	103° 30' 48.528 W
10,953.00	3.86	353.82	10,898.84	-681.49	639.91	485,624.96	794,566.42	32° 19' 56.608 N	103° 30' 48.510 W
11,000.00	15.95	3.01	10,945.05	-673.44	640.08	485,633.01	794,566.59	32° 19' 56.687 N	103° 30' 48.507 W
11,048.00	23.13	0.39	10,990.26	-657.40	640.49	485,649.05	794,567.01	32° 19' 56.846 N	103° 30' 48.501 W
11,143.00	27.81	1.70	11,076.00	-616.57	641.27	485,689.88	794,567.79	32° 19' 57.250 N	103° 30' 48.488 W
11,238.00	37.83	5.85	11,155.75	-565.30	644.91	485,741.15	794,571.43	32° 19' 57.757 N	103° 30' 48.441 W
11,332.00	51.02	6.83	11,222.73	-500.06	652.22	485,806.39	794,578.74	32° 19' 58.402 N	103° 30' 48.350 W
11,427.00	52.19	5.27	11,281.73	-426.02	660.06	485,880.43	794,586.58	32° 19' 59.134 N	103° 30' 48.252 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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
11,522.00	47.78	3.51	11,342.81	-353.51	665.67	485,952.95	794,592.18	32° 19' 59.851 N	103° 30' 48.180 W
11,617.00	53.03	359.99	11,403.35	-280.38	667.82	486,026.07	794,594.33	32° 20' 0.574 N	103° 30' 48.149 W
11,712.00	61.45	359.85	11,454.71	-200.56	667.70	486,105.89	794,594.22	32° 20' 1.364 N	103° 30' 48.143 W
11,807.00	72.15	4.79	11,492.10	-113.48	671.38	486,192.97	794,597.90	32° 20' 2.226 N	103° 30' 48.092 W
11,902.00	80.90	4.42	11,514.21	-21.49	678.78	486,284.96	794,605.30	32° 20' 3.135 N	103° 30' 47.998 W
11,996.00	83.01	1.16	11,527.37	71.46	683.31	486,377.91	794,609.82	32° 20' 4.055 N	103° 30' 47.937 W
12,091.00	86.38	357.69	11,536.15	166.02	682.35	486,472.47	794,608.87	32° 20' 4.990 N	103° 30' 47.939 W
12,186.00	91.91	355.99	11,537.57	260.82	677.11	486,567.28	794,603.63	32° 20' 5.929 N	103° 30' 47.992 W
12,281.00	85.49	355.18	11,539.73	355.47	669.81	486,661.92	794,596.32	32° 20' 6.866 N	103° 30' 48.069 W
12,376.00	87.34	355.54	11,545.67	449.97	662.14	486,756.42	794,588.66	32° 20' 7.802 N	103° 30' 48.150 W
12,507.00	93.17	358.34	11,545.08	580.71	655.15	486,887.16	794,581.67	32° 20' 9.096 N	103° 30' 48.219 W
12,602.00	89.55	357.90	11,542.83	675.62	652.03	486,982.07	794,578.55	32° 20' 10.035 N	103° 30' 48.247 W
12,697.00	90.50	358.04	11,542.79	770.56	648.67	487,077.01	794,575.19	32° 20' 10.975 N	103° 30' 48.278 W
12,792.00	91.15	359.22	11,541.42	865.52	646.40	487,171.97	794,572.91	32° 20' 11.915 N	103° 30' 48.296 W
12,886.00	91.29	358.99	11,539.42	959.48	644.93	487,265.93	794,571.45	32° 20' 12.844 N	103° 30' 48.305 W
12,981.00	91.90	358.70	11,536.77	1,054.43	643.01	487,360.88	794,569.53	32° 20' 13.784 N	103° 30' 48.319 W
13,076.00	92.04	358.44	11,533.51	1,149.34	640.64	487,455.79	794,567.16	32° 20' 14.723 N	103° 30' 48.338 W
13,171.00	91.85	357.82	11,530.28	1,244.23	637.55	487,550.69	794,564.06	32° 20' 15.663 N	103° 30' 48.365 W
13,266.00	92.30	359.27	11,526.84	1,339.14	635.14	487,645.59	794,561.65	32° 20' 16.602 N	103° 30' 48.385 W
13,361.00	93.14	2.12	11,522.33	1,434.01	636.29	487,740.47	794,562.80	32° 20' 17.540 N	103° 30' 48.363 W
13,455.00	91.15	3.03	11,518.82	1,527.85	640.51	487,834.30	794,567.02	32° 20' 18.469 N	103° 30' 48.306 W
13,550.00	89.41	3.91	11,518.35	1,622.67	646.26	487,929.12	794,572.77	32° 20' 19.406 N	103° 30' 48.230 W
13,645.00	86.81	3.61	11,521.48	1,717.40	652.48	488,023.85	794,579.00	32° 20' 20.343 N	103° 30' 48.149 W
13,740.00	83.78	3.09	11,529.28	1,811.91	658.01	488,118.36	794,584.53	32° 20' 21.278 N	103° 30' 48.076 W
13,835.00	83.06	2.36	11,540.16	1,906.18	662.50	488,212.63	794,589.02	32° 20' 22.210 N	103° 30' 48.015 W
13,930.00	84.16	1.49	11,550.73	2,000.53	665.67	488,306.98	794,592.19	32° 20' 23.144 N	103° 30' 47.970 W
14,025.00	85.24	359.35	11,559.51	2,095.12	666.36	488,401.57	794,592.88	32° 20' 24.080 N	103° 30' 47.954 W
14,120.00	88.18	357.40	11,564.96	2,189.91	663.67	488,496.36	794,590.19	32° 20' 25.018 N	103° 30' 47.976 W
14,215.00	89.75	357.11	11,566.68	2,284.78	659.12	488,591.23	794,585.64	32° 20' 25.957 N	103° 30' 48.021 W
14,310.00	89.47	355.76	11,567.33	2,379.59	653.22	488,686.04	794,579.73	32° 20' 26.896 N	103° 30' 48.081 W
14,404.00	90.08	354.71	11,567.69	2,473.26	645.41	488,779.71	794,571.93	32° 20' 27.823 N	103° 30' 48.164 W
14,499.00	90.28	357.79	11,567.40	2,568.05	639.20	488,874.50	794,565.71	32° 20' 28.761 N	103° 30' 48.228 W
14,594.00	92.97	0.39	11,564.70	2,662.98	637.69	488,969.43	794,564.20	32° 20' 29.701 N	103° 30' 48.237 W
14,689.00	94.07	1.12	11,558.87	2,757.79	638.94	489,064.24	794,565.45	32° 20' 30.639 N	103° 30' 48.214 W
14,784.00	93.92	1.14	11,552.25	2,852.54	640.80	489,158.99	794,567.32	32° 20' 31.576 N	103° 30' 48.184 W
14,879.00	92.18	1.34	11,547.20	2,947.38	642.86	489,253.83	794,569.38	32° 20' 32.515 N	103° 30' 48.152 W
14,973.00	92.19	1.02	11,543.61	3,041.29	644.79	489,347.74	794,571.31	32° 20' 33.444 N	103° 30' 48.121 W
15,068.00	92.38	0.51	11,539.82	3,136.21	646.06	489,442.66	794,572.58	32° 20' 34.383 N	103° 30' 48.097 W
15,163.00	94.11	359.57	11,534.45	3,231.05	646.13	489,537.50	794,572.64	32° 20' 35.321 N	103° 30' 48.088 W
15,258.00	93.03	0.57	11,528.53	3,325.86	646.24	489,632.31	794,572.76	32° 20' 36.259 N	103° 30' 48.078 W
15,353.00	93.08	2.08	11,523.47	3,420.70	648.44	489,727.15	794,574.95	32° 20' 37.198 N	103° 30' 48.044 W
15,447.00	90.20	4.14	11,520.78	3,514.51	653.53	489,820.96	794,580.05	32° 20' 38.125 N	103° 30' 47.976 W
15,542.00	89.33	4.29	11,521.17	3,609.25	660.52	489,915.70	794,587.03	32° 20' 39.062 N	103° 30' 47.887 W
15,637.00	90.36	4.84	11,521.42	3,703.95	668.08	490,010.40	794,594.60	32° 20' 39.999 N	103° 30' 47.790 W
15,732.00	89.78	4.02	11,521.31	3,798.66	675.42	490,105.11	794,601.93	32° 20' 40.935 N	103° 30' 47.696 W
15,827.00	90.31	3.83	11,521.23	3,893.44	681.92	490,199.89	794,608.44	32° 20' 41.873 N	103° 30' 47.612 W
15,922.00	88.21	3.39	11,522.46	3,988.24	687.90	490,294.69	794,614.42	32° 20' 42.810 N	103° 30' 47.534 W
16,017.00	88.34	2.88	11,525.32	4,083.05	693.09	490,389.50	794,619.61	32° 20' 43.748 N	103° 30' 47.465 W
16,112.00	86.94	2.79	11,529.23	4,177.85	697.79	490,484.30	794,624.30	32° 20' 44.686 N	103° 30' 47.401 W
16,206.00	87.93	3.16	11,533.44	4,271.63	702.66	490,578.08	794,629.18	32° 20' 45.613 N	103° 30' 47.336 W
16,301.00	91.43	358.68	11,533.97	4,366.58	704.18	490,673.03	794,630.70	32° 20' 46.553 N	103° 30' 47.310 W
16,395.00	93.42	356.46	11,529.99	4,460.40	700.20	490,766.85	794,626.72	32° 20' 47.481 N	103° 30' 47.348 W
16,490.00	93.81	357.04	11,524.00	4,555.06	694.83	490,861.51	794,621.35	32° 20' 48.418 N	103° 30' 47.402 W
16,585.00	93.92	357.39	11,517.60	4,649.73	690.22	490,956.18	794,616.74	32° 20' 49.355 N	103° 30' 47.447 W
16,680.00	94.01	357.35	11,511.03	4,744.40	685.88	491,050.85	794,612.39	32° 20' 50.293 N	103° 30' 47.490 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 426H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' KB @ 3509.90usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 426H	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
16,775.00	90.78	357.13	11,507.06	4,839.19	681.31	491,145.65	794,607.82	32° 20' 51.231 N	103° 30' 47.534 W
16,870.00	91.74	357.11	11,504.97	4,934.05	676.53	491,240.50	794,603.05	32° 20' 52.170 N	103° 30' 47.582 W
16,965.00	91.32	356.22	11,502.44	5,028.85	671.01	491,335.31	794,597.53	32° 20' 53.108 N	103° 30' 47.638 W
17,059.00	91.68	356.28	11,499.97	5,122.62	664.86	491,429.07	794,591.38	32° 20' 54.037 N	103° 30' 47.701 W
17,154.00	90.92	357.48	11,497.82	5,217.45	659.69	491,523.90	794,586.21	32° 20' 54.975 N	103° 30' 47.753 W
17,249.00	90.53	357.93	11,496.62	5,312.37	655.89	491,618.82	794,582.41	32° 20' 55.915 N	103° 30' 47.789 W
17,344.00	90.39	357.29	11,495.85	5,407.28	651.93	491,713.73	794,578.45	32° 20' 56.854 N	103° 30' 47.826 W
17,439.00	90.70	357.04	11,494.95	5,502.16	647.23	491,808.61	794,573.75	32° 20' 57.793 N	103° 30' 47.873 W
17,533.00	88.88	357.60	11,495.30	5,596.05	642.84	491,902.51	794,569.35	32° 20' 58.723 N	103° 30' 47.915 W
17,628.00	88.71	357.84	11,497.29	5,690.96	639.06	491,997.41	794,565.57	32° 20' 59.662 N	103° 30' 47.951 W
17,723.00	89.13	358.42	11,499.08	5,785.89	635.96	492,092.34	794,562.47	32° 21' 0.602 N	103° 30' 47.979 W
17,818.00	88.66	358.03	11,500.92	5,880.83	633.02	492,187.28	794,559.53	32° 21' 1.541 N	103° 30' 48.004 W
17,913.00	88.24	357.93	11,503.49	5,975.73	629.67	492,282.18	794,556.19	32° 21' 2.481 N	103° 30' 48.035 W
18,008.00	88.29	357.95	11,506.36	6,070.63	626.25	492,377.08	794,552.77	32° 21' 3.420 N	103° 30' 48.066 W
18,102.00	88.01	357.88	11,509.40	6,164.52	622.84	492,470.97	794,549.35	32° 21' 4.349 N	103° 30' 48.098 W
18,197.00	87.81	357.72	11,512.86	6,259.38	619.19	492,565.83	794,545.71	32° 21' 5.288 N	103° 30' 48.132 W
18,292.00	88.29	358.27	11,516.09	6,354.27	615.87	492,660.72	794,542.39	32° 21' 6.227 N	103° 30' 48.162 W
18,387.00	87.95	358.42	11,519.21	6,449.18	613.13	492,755.63	794,539.65	32° 21' 7.167 N	103° 30' 48.185 W
18,481.00	87.22	358.57	11,523.17	6,543.06	610.66	492,849.51	794,537.18	32° 21' 8.096 N	103° 30' 48.206 W
18,576.00	86.72	358.78	11,528.19	6,637.90	608.47	492,944.35	794,534.99	32° 21' 9.034 N	103° 30' 48.223 W
18,671.00	88.91	358.09	11,531.81	6,732.79	605.87	493,039.24	794,532.39	32° 21' 9.973 N	103° 30' 48.245 W
18,766.00	87.79	358.56	11,534.55	6,827.71	603.10	493,134.16	794,529.62	32° 21' 10.913 N	103° 30' 48.269 W
18,861.00	89.52	358.84	11,536.78	6,922.66	600.94	493,229.11	794,527.46	32° 21' 11.853 N	103° 30' 48.285 W
18,956.00	89.47	358.39	11,537.62	7,017.62	598.65	493,324.08	794,525.17	32° 21' 12.792 N	103° 30' 48.304 W
19,051.00	87.70	357.71	11,539.96	7,112.54	595.42	493,418.99	794,521.93	32° 21' 13.732 N	103° 30' 48.333 W
19,145.00	88.82	356.82	11,542.82	7,206.38	590.93	493,512.83	794,517.45	32° 21' 14.661 N	103° 30' 48.377 W
19,240.00	92.07	358.07	11,542.08	7,301.27	586.70	493,607.72	794,513.22	32° 21' 15.600 N	103° 30' 48.417 W
19,335.00	92.86	358.05	11,537.99	7,396.13	583.49	493,702.58	794,510.00	32° 21' 16.539 N	103° 30' 48.446 W
19,430.00	92.77	358.50	11,533.33	7,490.97	580.63	493,797.42	794,507.15	32° 21' 17.477 N	103° 30' 48.471 W
19,466.00	92.63	358.44	11,531.63	7,526.92	579.67	493,833.37	794,506.19	32° 21' 17.833 N	103° 30' 48.479 W
FINAL SURVEY @ 19466'									
19,533.00	92.63	358.44	11,528.56	7,593.82	577.85	493,900.27	794,504.37	32° 21' 18.495 N	103° 30' 48.495 W
PROJECTION TO TD @ 19533'									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
141.00	141.00	0.48	-0.34	FIRST SURVEY @ 141'	
19,466.00	11,531.63	7,526.92	579.67	FINAL SURVEY @ 19466'	
19,533.00	11,528.56	7,593.82	577.85	PROJECTION TO TD @ 19533'	

Checked By: _____ Approved By: _____ Date: _____

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R34E / SEC 6 / LOT 5 / 32.3344426 / -103.515724	County or Parish/State: LEA / NM
Well Number: 426H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC070544A, NMNM0001244A	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002548023	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 05/11/2021	Time Sundry Submitted: 01:03
Date Operation Actually Began: 03/25/1921	

Actual Procedure: 2/21: Pressure test csg to 13,000#. Test annulus to 1,000#. TCP Stage 1: 19,228'-19,350' O/A w/5, 3 1/8" guns. Establish injection into perfs: 5 BPM @ 10,587# for 40 bbls. SD and isolate well. ISIP 10,284#, 5 min 6,721#, 10 min 6,038#, 15 min 5,685#. 3/21: Stage-Frac lateral 11,794'-19,350' O/A in 43 stages w/ 67,801 gals 15% HCl, 398,121 bbls SW and 38,787 bbls HVFR carrying 1,822,265# 100M and 19,594,172# 40/70 white. 4/21: Drilled out all plugs w/4.5" OD Tri-Cone bit. SICP: 3,500#. TLTR: 443,121 bbls.

SR Attachments

Actual Procedure

BLUN_426H_WBD_20210511130259.pdf

Received by OCD: 9/13/2021 2:44:20 PM

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Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R34E / SEC 6 / LOT 5 / 32.3344426 / -103.515724	County or Parish/State: LEA / NM
Well Number: 426H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC070544A, NMNM0001244A	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002548023	Well Status: Drilling Well	Operator: KAISER FRANCIS OIL COMPANY

Operator Certification

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

Operator Electronic Signature: ERIC HANSEN	Signed on: MAY 11, 2021 01:03 PM
Name: KAISER FRANCIS OIL COMPANY	
Title: Drilling Engineer	
Street Address: 6733 S. Yale Ave.	
City: Tulsa	State: OK
Phone: (918) 491-4339	
Email address: EricH@kfoc.net	

Field Representative

Representative Name: Jeremy Parent		
Street Address: 88 Shell Road		
City: Jal	State: NM	Zip: 88252
Phone: (580)504-2593		
Email address: JeremyP@kfoc.net		

BLM Point of Contact

BLM POC Name: Jonathon W Shepard	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 05/14/2021
Signature: Jonathon Shepard	

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-025-48023		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Bell Lake Unit North		
								6. Well Number: 426H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Kaiser-Francis Oil Company						9. OGRID 12361				
10. Address of Operator P.O. Box 21468 Tulsa, OK 74121-1468						11. Pool name or Wildcat Ojo Chiso; Wolfcamp Southwest				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	5	6	23S	34E		2410	North	610	West	Lea
BH:	1	31	22S	34E		103	North	1250	West	Lea
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released		16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)			
12/21/2021	1/3/2021	1/5/2021		4/9/2021			3486 GR			
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?			21. Type Electric and Other Logs Run			
19533' MD/11529' TVD		19382' MD/11535' TVD		Yes			GR			
22. Producing Interval(s), of this completion - Top, Bottom, Name										
11794' - 19350'								Wolfcamp		
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5		1,173'		17-1/2"		1,030 SX		
10-3/4"		45.5		4,946'		12-1/4"		805 SX		
7-5/8"		29.7		10,825'		9-7/8"		1,205 SX		
5-1/2"		23		19,513'		6-3/4"		1,615 SX		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
none	-	-	-	-		none	-		-	
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
11794' - 19350', .42", 2064 holes						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11794' -		438522 bbls fluid +		
						19350'		21416437# sd		
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
6/28/2021		Flowing				Prod				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
7/14/2021	24	24/64		1070	2863	2023	2675			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	2900		1070	2863	2023	45				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)								30. Test Witnessed By		
Sold										
31. List Attachments										
C-104 NW, C-102 As-Drilled w/HSU, C-103 Completion, Final Svy, WBD										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude				Longitude				NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature Erica Miles			Printed Name Erica Miles			Title Geosciences		Date 9/13/2021		
E-mail Address EricaM@kfoc.net						Technician				

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

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

No. 2, from.....to.....

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

IMPORTANT WATER SANDS

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

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
MD							
1101			Rustler				
5016			Top Delaware Group				
8600			Upper Avalon				
9616			1st Bone Spring Sd				
10036			2nd Bone Spring Lm				
10177			2nd Bone Spring Sd				
10639			3rd Bone Spring Lm				
11135			3rd Bone spring Sd				
11492			Wolfcamp				

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 48196

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 48196
	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.

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CONDITIONS

Action 48196

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 48196
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	10/25/2021