

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 - 025-47854	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 428H

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
J	6	23S	34E		2095	South	2455	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	22S	34E		93	North	2217	East	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 6/3/21	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 11/24/20	²² Ready Date 3/28/21	²³ TD 19616' MD/ 11546' TVD	²⁴ PBD 19444' MD/ 11535' TVD	²⁵ Perforations 11872' - 19412'	²⁶ DHC, MC	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8"		1203'		1030
12-1/4"		10-3/4"		4865'		905
9-7/8"		7-5/8"		10664'		1180
6-3/4"		5-1/2"		19586'		1640

V. Well Test Data

³¹ Date New Oil 6/10/21	³² Gas Delivery Date 6/10/21	³³ Test Date 7/25/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2800
³⁷ Choke Size 24/64	³⁸ Oil 1204	³⁹ Water 1943	⁴⁰ Gas 3204		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: KURT SIMMONS	
Title: Geosciences Technician		Title: NMOCD, SANTA FE	
E-mail Address: EricaM@kfoc.net		Approval Date: 09/08/2021	
Date: 8/2/21	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 30-025-47854	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 428H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3475.5

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
J	6	23 S	34 E		2095	SOUTH	2455	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	22 S	34 E		93	NORTH	2217	EAST	LEA
¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-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 AS-DRILLED LAST TAKE POINT 296' FNL, 2206' FEL LAT. = 32.3546038°N LONG. = 103.5078280°W NW CORNER SEC. 6 LAT. = 32.3409003°N LONG. = 103.5175014°W NMSP EAST (FT) N = 488711.17 E = 793299.16 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		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. = 32.3551622°N LONG. = 103.5078609°W NMSP EAST (FT) N = 493922.55 E = 796236.60 N/4 CORNER SEC. 6 LAT. = 32.3409018°N LONG. = 103.5092579°W NMSP EAST (FT) N = 488731.23 E = 795845.16 S/4 CORNER SEC. 6 LAT. = 32.3263876°N LONG. = 103.5092598°W NMSP EAST (FT) N = 483450.91 E = 795885.19		NE 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 AS-DRILLED FIRST TAKE POINT 2540' FNL, 2206' FEL LAT. = 32.3339216°N LONG. = 103.5078515°W NE CORNER SEC. 6 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. = 103.5007113°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		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. 8/2/21 Signature _____ Date _____ 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. MAY 18, 2021 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number: _____		FILED MON. 05 JARANTILLO PLS 12797 SURVEY NO. 7002A							

Intent ☐ As Drilled ☒

API # 30-025-47854		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT NORTH	Well Number 428H

Kick Off Point (KOP)

UL J	Section 6	Township 23S	Range 34E	Lot	Feet 1969	From N/S SOUTH	Feet 2203	From E/W EAST	County LEA
Latitude 32.3317975					Longitude 103.5078410			NAD 83	

First Take Point (FTP)

UL G	Section 6	Township 23S	Range 34E	Lot	Feet 2540	From N/S NORTH	Feet 2206	From E/W EAST	County LEA
Latitude 32.3339216					Longitude 103.5078515			NAD 83	

Last Take Point (LTP)

UL B	Section 31	Township 22S	Range 34E	Lot	Feet 296	From N/S NORTH	Feet 2206	From E/W EAST	County LEA
Latitude 32.3546038					Longitude 103.5078280			NAD 83	

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

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

API # 30-025-46946		
Operator Name: Kaiser-Francis Oil Company	Property Name: Bell Lake Unit North	Well Number 430H

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 428H

HORIZONTAL

Design: FINAL

Standard Survey Report

17 December, 2020



Kaiser-Francis Oil Company



CATHEDRAL

Project: Lea County, NM (NAD 83)
 Site: SEC 6, T23S, R34E
 Well: BELL LAKE UNIT NORTH 428H
 Wellbore: HORIZONTAL
 Plan: FINAL

WELL DETAILS: BELL LAKE UNIT NORTH 428H

23.9' @ 3499.40usft (Cactus 171)
 Ground Level: 3475.50

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	485546.72	796054.93	32° 19' 55.720 N	103° 30' 31.169 W

US State Plane 1983
 New Mexico Eastern Zone

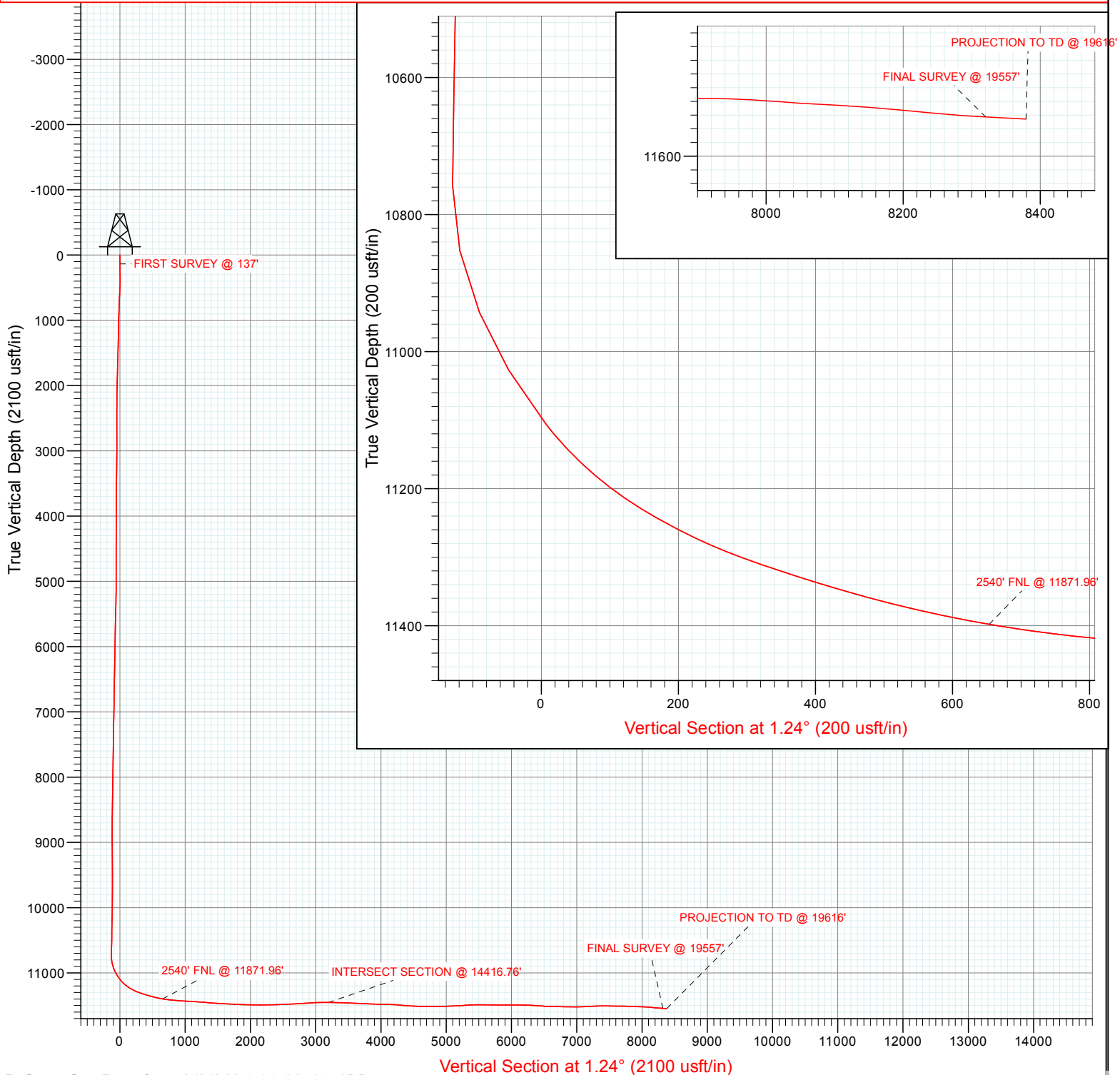


Total Azimuth to Grid North
 True North: -0.44°
 Magnetic North: 6.04°

Magnetic Field
 Strength: 47837.9nT
 Dip Angle: 60.03°
 Date: 12/17/2020
 Model: HDGM_FILE

SURVEY DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
137.00	0.92	324.26	136.99	0.89	-0.64	0.88	1.10	FIRST SURVEY @ 137'
19557.00	86.97	356.19	11542.78	8318.51	185.61	8320.58	8804.32	FINAL SURVEY @ 19557'
19616.00	86.97	356.19	11545.89	8377.29	181.69	8379.26	8863.23	PROJECTION TO TD @ 19616'

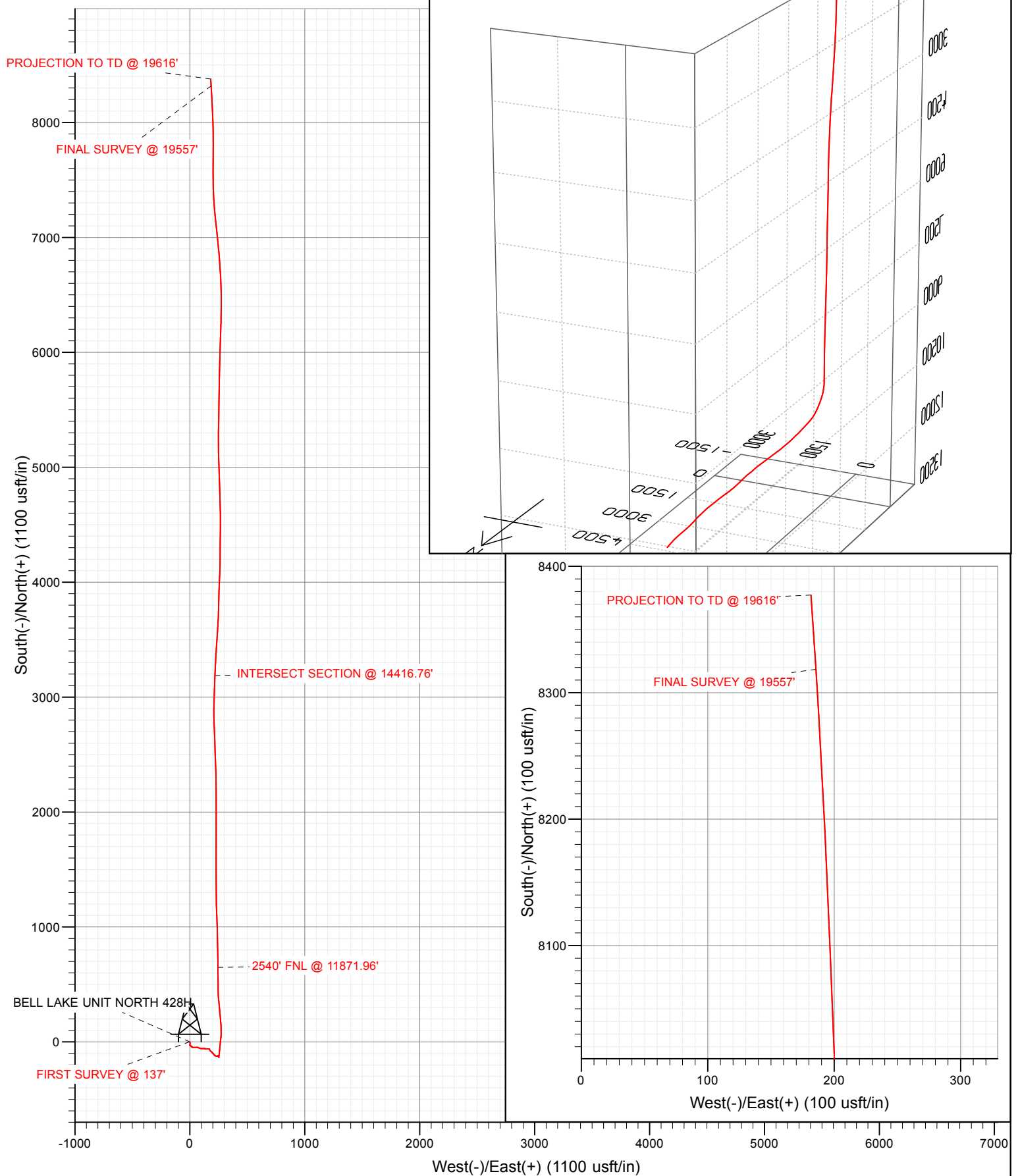


Kaiser-Francis Oil Company



Azimuths to Grid North
 True North: -0.44°
 Magnetic North: 6.04°
 Magnetic Field
 Strength: 47837.9nT
 Dip Angle: 60.03°
 Date: 12/17/2020
 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 428H
 Wellbore: HORIZONTAL
 23.9' @ 3499.40usft (Cactus 171)
 Ground Elevation: 3475.50
 Plan: FINAL



Kaiser-Francis Oil Company

Survey Report



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 428H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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 428H					
Well Position	+N/-S	0.00 usft	Northing:	485,546.72 usft	Latitude:	32° 19' 55.720 N
	+E/-W	0.00 usft	Easting:	796,054.93 usft	Longitude:	103° 30' 31.169 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,475.50 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/17/2020	6.48	60.03	47,837.90000000

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	1.24	

Survey Program	Date	12/17/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
137.00	19,616.00	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		
137.00	0.92	324.26	136.99	0.89	-0.64	0.88	0.67	0.67		
238.00	0.97	327.99	237.98	2.28	-1.57	2.24	0.08	0.05		
331.00	0.97	331.53	330.97	3.64	-2.36	3.58	0.06	0.00		
424.00	1.26	156.04	423.96	3.39	-2.32	3.34	2.40	0.31		
518.00	3.32	159.66	517.88	-0.10	-0.96	-0.12	2.20	2.19		
611.00	2.79	161.22	610.75	-4.77	0.71	-4.76	0.58	-0.57		
705.00	2.30	168.12	704.66	-8.78	1.83	-8.74	0.61	-0.52		
799.00	2.02	178.04	798.59	-12.29	2.28	-12.23	0.50	-0.30		
892.00	1.78	184.91	891.54	-15.36	2.21	-15.31	0.36	-0.26		
985.00	1.57	187.40	984.50	-18.07	1.92	-18.02	0.24	-0.23		
1,079.00	1.42	196.41	1,078.47	-20.46	1.43	-20.42	0.30	-0.16		
1,168.00	1.43	197.37	1,167.44	-22.58	0.79	-22.55	0.03	0.01		

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 428H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 428H
TVD Reference: 23.9' @ 3499.40usft (Cactus 171)
MD Reference: 23.9' @ 3499.40usft (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
1,273.00	1.29	209.77	1,272.41	-24.85	-0.19	-24.85	0.31	-0.13	
1,367.00	1.08	208.51	1,366.39	-26.55	-1.14	-26.57	0.23	-0.22	
1,462.00	1.79	133.06	1,461.37	-28.35	-0.48	-28.35	1.94	0.75	
1,557.00	3.07	123.43	1,556.28	-30.76	2.72	-30.70	1.41	1.35	
1,652.00	2.83	126.84	1,651.15	-33.57	6.72	-33.42	0.31	-0.25	
1,747.00	2.58	130.48	1,746.05	-36.37	10.23	-36.14	0.32	-0.26	
1,842.00	2.19	146.72	1,840.97	-39.27	12.85	-38.98	0.82	-0.41	
1,936.00	2.16	127.73	1,934.90	-41.86	15.24	-41.52	0.76	-0.03	
2,031.00	1.91	121.88	2,029.84	-43.79	18.00	-43.39	0.34	-0.26	
2,126.00	1.98	118.33	2,124.78	-45.40	20.78	-44.94	0.15	0.07	
2,221.00	2.11	107.03	2,219.72	-46.70	23.90	-46.17	0.45	0.14	
2,316.00	2.14	100.40	2,314.66	-47.53	27.32	-46.92	0.26	0.03	
2,411.00	2.00	97.40	2,409.60	-48.06	30.71	-47.38	0.19	-0.15	
2,506.00	2.07	93.18	2,504.54	-48.37	34.06	-47.62	0.17	0.07	
2,600.00	2.16	86.36	2,598.47	-48.35	37.53	-47.53	0.28	0.10	
2,695.00	2.45	88.18	2,693.40	-48.17	41.34	-47.27	0.31	0.31	
2,790.00	2.71	83.39	2,788.30	-47.85	45.60	-46.85	0.36	0.27	
2,885.00	3.43	86.76	2,883.16	-47.43	50.67	-46.32	0.78	0.76	
2,980.00	3.86	85.75	2,977.97	-47.03	56.70	-45.79	0.46	0.45	
3,075.00	4.08	94.78	3,072.74	-47.08	63.25	-45.70	0.70	0.23	
3,169.00	4.21	103.54	3,166.50	-48.17	69.94	-46.64	0.69	0.14	
3,264.00	3.62	117.91	3,261.28	-50.39	75.98	-48.73	1.20	-0.62	
3,359.00	3.42	117.74	3,356.10	-53.11	81.14	-51.34	0.21	-0.21	
3,454.00	3.59	109.28	3,450.92	-55.41	86.46	-53.52	0.57	0.18	
3,549.00	4.26	100.33	3,545.70	-57.02	92.73	-55.00	0.95	0.71	
3,644.00	3.75	93.03	3,640.47	-57.82	99.31	-55.65	0.76	-0.54	
3,739.00	3.82	89.90	3,735.26	-57.98	105.58	-55.68	0.23	0.07	
3,834.00	3.74	87.78	3,830.05	-57.85	111.84	-55.42	0.17	-0.08	
3,928.00	3.25	86.56	3,923.88	-57.58	117.56	-55.01	0.53	-0.52	
4,023.00	2.66	90.82	4,018.75	-57.45	122.45	-54.78	0.66	-0.62	
4,117.00	2.09	111.29	4,112.67	-58.10	126.23	-55.35	1.08	-0.61	
4,212.00	2.45	100.18	4,207.60	-59.09	129.84	-56.26	0.60	0.38	
4,307.00	3.05	94.21	4,302.49	-59.63	134.36	-56.70	0.70	0.63	
4,402.00	3.03	98.50	4,397.36	-60.19	139.36	-57.15	0.24	-0.02	
4,497.00	2.84	92.01	4,492.23	-60.64	144.20	-57.50	0.40	-0.20	
4,591.00	2.55	91.95	4,586.13	-60.79	148.62	-57.56	0.31	-0.31	
4,686.00	2.38	92.79	4,681.04	-60.96	152.70	-57.64	0.18	-0.18	
4,781.00	1.98	88.14	4,775.97	-61.01	156.31	-57.60	0.46	-0.42	
4,833.00	1.82	89.19	4,827.94	-60.96	158.03	-57.52	0.31	-0.31	
4,961.00	1.35	90.45	4,955.89	-60.95	161.57	-57.43	0.37	-0.37	
5,055.00	1.62	91.90	5,049.86	-61.00	164.01	-57.43	0.29	0.29	
5,150.00	1.64	85.38	5,144.82	-60.94	166.71	-57.31	0.20	0.02	
5,245.00	1.56	147.66	5,239.79	-61.92	168.75	-58.24	1.74	-0.08	
5,340.00	1.80	156.51	5,334.75	-64.38	170.04	-60.68	0.37	0.25	
5,435.00	1.45	151.22	5,429.71	-66.80	171.21	-63.07	0.40	-0.37	
5,529.00	1.40	148.72	5,523.68	-68.82	172.38	-65.07	0.08	-0.05	
5,624.00	1.59	150.82	5,618.65	-70.97	173.63	-67.19	0.21	0.20	
5,719.00	1.63	147.32	5,713.61	-73.26	175.00	-69.44	0.11	0.04	
5,814.00	1.62	144.70	5,808.58	-75.49	176.50	-71.64	0.08	-0.01	
5,909.00	1.40	135.95	5,903.54	-77.42	178.09	-73.54	0.33	-0.23	
6,004.00	1.54	140.33	5,998.51	-79.24	179.71	-75.32	0.19	0.15	
6,099.00	1.56	136.28	6,093.48	-81.15	181.42	-77.20	0.12	0.02	
6,194.00	1.42	129.96	6,188.45	-82.84	183.21	-78.85	0.23	-0.15	

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 428H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 428H
TVD Reference: 23.9' @ 3499.40usft (Cactus 171)
MD Reference: 23.9' @ 3499.40usft (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
6,288.00	1.48	129.57	6,282.42	-84.36	185.04	-80.33	0.06	0.06	
6,383.00	1.35	129.02	6,377.39	-85.85	186.86	-81.78	0.14	-0.14	
6,478.00	1.39	126.33	6,472.36	-87.24	188.66	-83.13	0.08	0.04	
6,573.00	1.43	136.08	6,567.33	-88.77	190.41	-84.62	0.26	0.04	
6,668.00	1.42	129.89	6,662.30	-90.38	192.13	-86.20	0.16	-0.01	
6,763.00	1.41	137.36	6,757.27	-92.00	193.83	-87.77	0.19	-0.01	
6,857.00	1.24	139.57	6,851.25	-93.62	195.27	-89.37	0.19	-0.18	
6,952.00	1.53	136.06	6,946.22	-95.32	196.82	-91.03	0.32	0.31	
7,047.00	1.37	138.08	7,041.19	-97.08	198.45	-92.75	0.18	-0.17	
7,142.00	1.51	139.90	7,136.16	-98.88	200.02	-94.52	0.16	0.15	
7,236.00	1.44	134.86	7,230.13	-100.66	201.65	-96.26	0.16	-0.07	
7,331.00	1.14	131.64	7,325.10	-102.13	203.21	-97.70	0.32	-0.32	
7,426.00	1.31	133.18	7,420.08	-103.50	204.71	-99.04	0.18	0.18	
7,521.00	1.32	137.63	7,515.06	-105.05	206.23	-100.56	0.11	0.01	
7,615.00	1.14	144.34	7,609.04	-106.61	207.51	-102.09	0.24	-0.19	
7,710.00	1.05	137.00	7,704.02	-108.02	208.65	-103.47	0.18	-0.09	
7,805.00	1.24	152.30	7,799.00	-109.56	209.73	-104.99	0.38	0.20	
7,900.00	1.19	146.90	7,893.98	-111.30	210.74	-106.70	0.13	-0.05	
7,995.00	1.10	139.83	7,988.96	-112.82	211.87	-108.20	0.18	-0.09	
8,089.00	1.12	134.90	8,082.94	-114.16	213.10	-109.51	0.10	0.02	
8,184.00	1.26	135.05	8,177.92	-115.56	214.50	-110.88	0.15	0.15	
8,279.00	1.46	125.89	8,272.89	-117.00	216.22	-112.29	0.31	0.21	
8,374.00	1.49	125.46	8,367.86	-118.43	218.20	-113.67	0.03	0.03	
8,469.00	1.61	127.18	8,462.83	-119.95	220.27	-115.15	0.14	0.13	
8,564.00	1.63	118.38	8,557.79	-121.40	222.52	-116.55	0.26	0.02	
8,658.00	1.60	107.12	8,651.75	-122.42	224.95	-117.52	0.34	-0.03	
8,753.00	1.74	105.31	8,746.71	-123.19	227.61	-118.23	0.16	0.15	
8,848.00	1.79	101.16	8,841.67	-123.86	230.46	-118.84	0.14	0.05	
8,943.00	1.33	102.90	8,936.63	-124.40	232.99	-119.31	0.49	-0.48	
9,038.00	0.79	56.31	9,031.62	-124.28	234.61	-119.16	1.03	-0.57	
9,133.00	0.95	51.99	9,126.61	-123.43	235.77	-118.29	0.18	0.17	
9,228.00	1.26	61.16	9,221.59	-122.44	237.31	-117.27	0.37	0.33	
9,323.00	1.01	43.38	9,316.57	-121.33	238.80	-116.12	0.45	-0.26	
9,418.00	1.07	43.13	9,411.55	-120.07	239.98	-114.84	0.06	0.06	
9,513.00	0.90	73.56	9,506.54	-119.21	241.30	-113.95	0.57	-0.18	
9,608.00	0.91	100.70	9,601.53	-119.14	242.76	-113.85	0.45	0.01	
9,703.00	0.77	118.43	9,696.52	-119.59	244.06	-114.27	0.31	-0.15	
9,797.00	0.94	139.20	9,790.51	-120.47	245.12	-115.13	0.37	0.18	
9,892.00	1.13	147.58	9,885.49	-121.85	246.13	-116.49	0.26	0.20	
9,987.00	1.19	146.25	9,980.47	-123.46	247.18	-118.08	0.07	0.06	
10,082.00	1.23	145.35	10,075.45	-125.12	248.31	-119.71	0.05	0.04	
10,177.00	1.20	145.55	10,170.43	-126.78	249.45	-121.34	0.03	-0.03	
10,271.00	0.58	148.46	10,264.42	-128.00	250.26	-122.54	0.66	-0.66	
10,366.00	0.78	159.16	10,359.41	-129.01	250.74	-123.55	0.25	0.21	
10,461.00	0.83	149.31	10,454.40	-130.21	251.32	-124.73	0.15	0.05	
10,556.00	0.96	172.75	10,549.39	-131.59	251.77	-126.10	0.41	0.14	
10,641.00	1.08	176.56	10,634.38	-133.10	251.91	-127.60	0.16	0.14	
10,765.00	0.59	203.65	10,758.37	-134.85	251.73	-129.36	0.50	-0.40	
10,860.00	13.47	9.62	10,852.53	-124.33	253.39	-118.81	14.78	13.56	
10,955.00	22.06	5.50	10,942.92	-95.61	256.95	-90.02	9.13	9.04	
11,049.00	31.46	2.55	11,026.76	-53.44	259.74	-47.80	10.10	10.00	
11,144.00	38.05	9.19	11,104.80	0.31	265.53	6.06	7.99	6.94	
11,239.00	48.51	3.01	11,173.89	64.95	272.10	70.83	11.87	11.01	

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 428H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 428H
TVD Reference: 23.9' @ 3499.40usft (Cactus 171)
MD Reference: 23.9' @ 3499.40usft (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
11,334.00	58.91	355.92	11,230.09	141.32	271.07	147.17	12.48	10.95	
11,429.00	65.10	354.99	11,274.66	224.90	264.40	230.58	6.57	6.52	
11,524.00	71.48	353.56	11,309.79	312.67	255.58	318.14	6.86	6.72	
11,618.00	72.80	357.13	11,338.62	401.83	248.33	407.12	3.88	1.40	
11,654.00	73.89	358.99	11,348.94	436.30	247.16	441.55	5.80	3.03	
11,748.00	76.48	359.11	11,372.98	527.15	245.66	532.35	2.76	2.76	
11,843.00	79.35	359.43	11,392.86	620.03	244.48	625.18	3.04	3.02	
11,871.96	80.20	359.42	11,398.00	648.53	244.19	653.67	2.94	2.94	
11,938.00	82.15	359.40	11,408.13	713.78	243.52	718.89	2.95	2.95	
12,032.00	84.92	358.93	11,418.72	807.16	242.16	812.22	2.99	2.95	
12,127.00	87.09	358.70	11,425.34	901.90	240.20	906.90	2.30	2.28	
12,222.00	86.89	358.13	11,430.32	996.74	237.57	1,001.65	0.64	-0.21	
12,317.00	85.71	357.89	11,436.45	1,091.48	234.28	1,096.30	1.27	-1.24	
12,412.00	85.37	358.89	11,443.84	1,186.15	231.62	1,190.90	1.11	-0.36	
12,506.00	85.01	359.12	11,451.72	1,279.81	229.99	1,284.49	0.45	-0.38	
12,601.00	85.85	359.57	11,459.29	1,374.50	228.91	1,379.14	1.00	0.88	
12,696.00	87.03	0.05	11,465.19	1,469.31	228.60	1,473.92	1.34	1.24	
12,791.00	86.30	0.13	11,470.72	1,564.15	228.74	1,568.74	0.77	-0.77	
12,886.00	86.77	359.94	11,476.46	1,658.98	228.80	1,663.55	0.53	0.49	
12,981.00	88.46	0.35	11,480.41	1,753.89	229.04	1,758.45	1.83	1.78	
13,075.00	86.94	359.96	11,484.19	1,847.81	229.30	1,852.35	1.67	-1.62	
13,170.00	87.31	0.18	11,488.95	1,942.69	229.41	1,947.21	0.45	0.39	
13,265.00	91.32	0.27	11,490.09	2,037.67	229.79	2,042.17	4.22	4.22	
13,360.00	89.27	359.56	11,489.60	2,132.66	229.64	2,137.14	2.28	-2.16	
13,455.00	89.78	358.95	11,490.39	2,227.65	228.41	2,232.08	0.84	0.54	
13,550.00	91.01	358.88	11,489.73	2,322.63	226.61	2,326.99	1.30	1.29	
13,644.00	92.69	358.06	11,486.70	2,416.54	224.10	2,420.83	1.99	1.79	
13,739.00	92.44	357.70	11,482.44	2,511.38	220.59	2,515.57	0.46	-0.26	
13,833.00	93.59	357.96	11,477.50	2,605.18	217.04	2,609.27	1.25	1.22	
13,928.00	92.66	357.78	11,472.32	2,699.97	213.51	2,703.97	1.00	-0.98	
14,022.00	93.73	358.47	11,467.08	2,793.77	210.44	2,797.68	1.35	1.14	
14,117.00	93.71	0.41	11,460.92	2,888.56	209.51	2,892.43	2.04	-0.02	
14,212.00	93.00	1.83	11,455.36	2,983.38	211.37	2,987.26	1.67	-0.75	
14,307.00	89.66	2.13	11,453.15	3,078.28	214.65	3,082.21	3.53	-3.52	
14,402.00	89.97	1.76	11,453.46	3,173.23	217.87	3,177.21	0.51	0.33	
14,416.76	89.77	1.97	11,453.49	3,187.98	218.35	3,191.97	1.96	-1.36	
14,497.00	88.68	3.11	11,454.58	3,268.13	221.91	3,272.17	1.97	-1.36	
14,592.00	89.38	3.34	11,456.19	3,362.97	227.25	3,367.10	0.78	0.74	
14,686.00	87.84	3.59	11,458.47	3,456.76	232.93	3,461.00	1.66	-1.64	
14,781.00	87.93	4.03	11,461.97	3,551.49	239.24	3,555.84	0.47	0.09	
14,876.00	86.98	3.40	11,466.19	3,646.19	245.39	3,650.66	1.20	-1.00	
14,971.00	86.63	1.42	11,471.49	3,740.96	249.38	3,745.49	2.11	-0.37	
15,066.00	87.28	1.13	11,476.53	3,835.80	251.49	3,840.35	0.75	0.68	
15,160.00	88.32	2.15	11,480.14	3,929.69	254.18	3,934.28	1.55	1.11	
15,255.00	89.80	2.53	11,481.70	4,024.60	258.06	4,029.24	1.61	1.56	
15,350.00	88.43	2.20	11,483.17	4,119.50	261.98	4,124.21	1.48	-1.44	
15,445.00	85.97	0.02	11,487.81	4,214.36	263.82	4,219.09	3.46	-2.59	
15,540.00	86.30	0.46	11,494.21	4,309.14	264.21	4,313.85	0.58	0.35	
15,635.00	85.55	0.58	11,500.96	4,403.89	265.07	4,408.61	0.80	-0.79	
15,729.00	85.29	0.14	11,508.47	4,497.59	265.66	4,502.29	0.54	-0.28	
15,824.00	89.02	359.19	11,513.18	4,592.46	265.11	4,597.12	4.05	3.93	
15,919.00	89.13	358.43	11,514.72	4,687.42	263.13	4,692.03	0.81	0.12	
16,014.00	89.55	358.24	11,515.81	4,782.38	260.37	4,786.90	0.49	0.44	

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 428H
Wellbore: HORIZONTAL
Design: FINAL

Local Co-ordinate Reference: Well BELL LAKE UNIT NORTH 428H
TVD Reference: 23.9' @ 3499.40usft (Cactus 171)
MD Reference: 23.9' @ 3499.40usft (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
16,109.00	91.20	358.30	11,515.19	4,877.33	257.51	4,881.76	1.74	1.74	
16,203.00	92.19	357.96	11,512.41	4,971.23	254.44	4,975.58	1.11	1.05	
16,298.00	91.99	357.87	11,508.95	5,066.11	250.99	5,070.36	0.23	-0.21	
16,393.00	94.46	358.72	11,503.60	5,160.91	248.16	5,165.07	2.75	2.60	
16,474.00	93.53	0.90	11,497.96	5,241.70	247.90	5,245.85	2.92	-1.15	
16,585.00	92.55	1.68	11,492.07	5,352.52	250.39	5,356.69	1.13	-0.88	
16,680.00	90.22	0.39	11,489.77	5,447.47	252.11	5,451.65	2.80	-2.45	
16,775.00	90.03	0.57	11,489.57	5,542.46	252.90	5,546.64	0.28	-0.20	
16,870.00	90.00	1.22	11,489.54	5,637.45	254.39	5,641.64	0.68	-0.03	
16,965.00	90.00	1.04	11,489.54	5,732.43	256.26	5,736.64	0.19	0.00	
17,059.00	89.41	1.20	11,490.03	5,826.41	258.10	5,830.64	0.65	-0.63	
17,154.00	89.83	1.46	11,490.66	5,921.38	260.30	5,925.64	0.52	0.44	
17,249.00	90.08	1.83	11,490.73	6,016.34	263.03	6,020.63	0.47	0.26	
17,344.00	88.94	2.03	11,491.54	6,111.29	266.23	6,115.62	1.22	-1.20	
17,439.00	90.11	1.81	11,492.33	6,206.23	269.41	6,210.61	1.25	1.23	
17,534.00	86.47	0.55	11,495.17	6,301.15	271.37	6,305.55	4.05	-3.83	
17,629.00	85.21	0.23	11,502.06	6,395.89	272.01	6,400.29	1.37	-1.33	
17,724.00	84.69	0.30	11,510.42	6,490.52	272.45	6,494.90	0.55	-0.55	
17,818.00	88.91	358.63	11,515.67	6,584.35	271.57	6,588.69	4.83	4.49	
17,913.00	90.25	356.10	11,516.36	6,679.23	267.20	6,683.46	3.01	1.41	
18,008.00	88.49	355.66	11,517.41	6,773.98	260.38	6,778.03	1.91	-1.85	
18,103.00	88.51	354.53	11,519.89	6,868.60	252.26	6,872.45	1.19	0.02	
18,198.00	89.58	354.44	11,521.48	6,963.14	243.13	6,966.78	1.13	1.13	
18,293.00	92.58	354.36	11,519.69	7,057.66	233.86	7,061.07	3.16	3.16	
18,386.00	92.88	353.35	11,515.26	7,150.02	223.92	7,153.20	1.13	0.32	
18,481.00	92.33	355.14	11,510.94	7,244.44	214.40	7,247.39	1.97	-0.58	
18,576.00	92.32	356.88	11,507.08	7,339.13	207.80	7,341.91	1.83	-0.01	
18,671.00	89.13	358.73	11,505.88	7,434.03	204.16	7,436.71	3.88	-3.36	
18,765.00	88.82	359.67	11,507.56	7,528.01	202.85	7,530.64	1.05	-0.33	
18,860.00	89.24	0.23	11,509.17	7,623.00	202.77	7,625.60	0.74	0.44	
18,955.00	89.10	0.83	11,510.55	7,717.98	203.65	7,720.58	0.65	-0.15	
19,050.00	87.31	359.97	11,513.52	7,812.93	204.31	7,815.52	2.09	-1.88	
19,145.00	89.89	358.87	11,515.84	7,907.88	203.35	7,910.43	2.95	2.72	
19,239.00	85.58	357.71	11,519.56	8,001.75	200.55	8,004.21	4.75	-4.59	
19,334.00	87.14	357.77	11,525.59	8,096.48	196.81	8,098.84	1.64	1.64	
19,429.00	84.45	357.24	11,532.56	8,191.12	192.68	8,193.37	2.89	-2.83	
19,524.00	85.74	356.67	11,540.68	8,285.64	187.66	8,287.76	1.48	1.36	
19,557.00	86.97	356.19	11,542.78	8,318.51	185.61	8,320.58	4.00	3.73	
19,616.00	86.97	356.19	11,545.89	8,377.29	181.69	8,379.26	0.00	0.00	

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 428H

HORIZONTAL

Design: FINAL

Survey Report - Geographic

17 December, 2020



Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 428H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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 428H		
Well Position	+N/-S	0.00 usft	Northing: 485,546.72 usft
	+E/-W	0.00 usft	Easting: 796,054.93 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 19' 55.720 N
		Longitude:	103° 30' 31.169 W
		Ground Level:	3,475.50 usft

Wellbore	HORIZONTAL		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM_FILE	12/17/2020	6.48
			Dip Angle (°)
			60.03
			Field Strength (nT)
			47,837.90000000

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 (°)
			1.24

Survey Program	Date 12/17/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
137.00	19,616.00	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	485,546.72	796,054.93	32° 19' 55.720 N	103° 30' 31.169 W
137.00	0.92	324.26	136.99	0.89	-0.64	485,547.61	796,054.29	32° 19' 55.729 N	103° 30' 31.177 W
238.00	0.97	327.99	237.98	2.28	-1.57	485,549.00	796,053.36	32° 19' 55.743 N	103° 30' 31.187 W
331.00	0.97	331.53	330.97	3.64	-2.36	485,550.36	796,052.57	32° 19' 55.756 N	103° 30' 31.196 W
424.00	1.26	156.04	423.96	3.39	-2.32	485,550.11	796,052.61	32° 19' 55.754 N	103° 30' 31.196 W
518.00	3.32	159.66	517.88	-0.10	-0.96	485,546.62	796,053.97	32° 19' 55.719 N	103° 30' 31.180 W
611.00	2.79	161.22	610.75	-4.77	0.71	485,541.95	796,055.64	32° 19' 55.673 N	103° 30' 31.161 W
705.00	2.30	168.12	704.66	-8.78	1.83	485,537.94	796,056.76	32° 19' 55.633 N	103° 30' 31.149 W
799.00	2.02	178.04	798.59	-12.29	2.28	485,534.44	796,057.21	32° 19' 55.599 N	103° 30' 31.144 W
892.00	1.78	184.91	891.54	-15.36	2.21	485,531.36	796,057.14	32° 19' 55.568 N	103° 30' 31.145 W
985.00	1.57	187.40	984.50	-18.07	1.92	485,528.66	796,056.85	32° 19' 55.541 N	103° 30' 31.148 W
1,079.00	1.42	196.41	1,078.47	-20.46	1.43	485,526.26	796,056.36	32° 19' 55.518 N	103° 30' 31.154 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 428H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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
1,168.00	1.43	197.37	1,167.44	-22.58	0.79	485,524.14	796,055.71	32° 19' 55.497 N	103° 30' 31.162 W
1,273.00	1.29	209.77	1,272.41	-24.85	-0.19	485,521.87	796,054.74	32° 19' 55.474 N	103° 30' 31.174 W
1,367.00	1.08	208.51	1,366.39	-26.55	-1.14	485,520.17	796,053.79	32° 19' 55.458 N	103° 30' 31.185 W
1,462.00	1.79	133.06	1,461.37	-28.35	-0.48	485,518.37	796,054.44	32° 19' 55.440 N	103° 30' 31.177 W
1,557.00	3.07	123.43	1,556.28	-30.76	2.72	485,515.96	796,057.65	32° 19' 55.416 N	103° 30' 31.140 W
1,652.00	2.83	126.84	1,651.15	-33.57	6.72	485,513.15	796,061.65	32° 19' 55.388 N	103° 30' 31.094 W
1,747.00	2.58	130.48	1,746.05	-36.37	10.23	485,510.35	796,065.15	32° 19' 55.360 N	103° 30' 31.053 W
1,842.00	2.19	146.72	1,840.97	-39.27	12.85	485,507.45	796,067.78	32° 19' 55.331 N	103° 30' 31.023 W
1,936.00	2.16	127.73	1,934.90	-41.86	15.24	485,504.86	796,070.16	32° 19' 55.305 N	103° 30' 30.995 W
2,031.00	1.91	121.88	2,029.84	-43.79	18.00	485,502.93	796,072.92	32° 19' 55.286 N	103° 30' 30.963 W
2,126.00	1.98	118.33	2,124.78	-45.40	20.78	485,501.32	796,075.71	32° 19' 55.269 N	103° 30' 30.931 W
2,221.00	2.11	107.03	2,219.72	-46.70	23.90	485,500.03	796,078.83	32° 19' 55.256 N	103° 30' 30.895 W
2,316.00	2.14	100.40	2,314.66	-47.53	27.32	485,499.19	796,082.25	32° 19' 55.248 N	103° 30' 30.855 W
2,411.00	2.00	97.40	2,409.60	-48.06	30.71	485,498.66	796,085.63	32° 19' 55.242 N	103° 30' 30.816 W
2,506.00	2.07	93.18	2,504.54	-48.37	34.06	485,498.35	796,088.99	32° 19' 55.239 N	103° 30' 30.776 W
2,600.00	2.16	86.36	2,598.47	-48.35	37.53	485,498.37	796,092.45	32° 19' 55.239 N	103° 30' 30.736 W
2,695.00	2.45	88.18	2,693.40	-48.17	41.34	485,498.55	796,096.27	32° 19' 55.241 N	103° 30' 30.692 W
2,790.00	2.71	83.39	2,788.30	-47.85	45.60	485,498.87	796,100.53	32° 19' 55.243 N	103° 30' 30.642 W
2,885.00	3.43	86.76	2,883.16	-47.43	50.67	485,499.29	796,105.60	32° 19' 55.247 N	103° 30' 30.583 W
2,980.00	3.86	85.75	2,977.97	-47.03	56.70	485,499.69	796,111.63	32° 19' 55.251 N	103° 30' 30.513 W
3,075.00	4.08	94.78	3,072.74	-47.08	63.25	485,499.64	796,118.18	32° 19' 55.250 N	103° 30' 30.436 W
3,169.00	4.21	103.54	3,166.50	-48.17	69.94	485,498.56	796,124.87	32° 19' 55.238 N	103° 30' 30.358 W
3,264.00	3.62	117.91	3,261.28	-50.39	75.98	485,496.34	796,130.91	32° 19' 55.216 N	103° 30' 30.288 W
3,359.00	3.42	117.74	3,356.10	-53.11	81.14	485,493.61	796,136.07	32° 19' 55.189 N	103° 30' 30.228 W
3,454.00	3.59	109.28	3,450.92	-55.41	86.46	485,491.31	796,141.38	32° 19' 55.165 N	103° 30' 30.166 W
3,549.00	4.26	100.33	3,545.70	-57.02	92.73	485,489.70	796,147.66	32° 19' 55.149 N	103° 30' 30.093 W
3,644.00	3.75	93.03	3,640.47	-57.82	99.31	485,488.90	796,154.24	32° 19' 55.141 N	103° 30' 30.017 W
3,739.00	3.82	89.90	3,735.26	-57.98	105.58	485,488.74	796,160.50	32° 19' 55.139 N	103° 30' 29.944 W
3,834.00	3.74	87.78	3,830.05	-57.85	111.84	485,488.87	796,166.76	32° 19' 55.139 N	103° 30' 29.871 W
3,928.00	3.25	86.56	3,923.88	-57.58	117.56	485,489.15	796,172.49	32° 19' 55.142 N	103° 30' 29.804 W
4,023.00	2.66	90.82	4,018.75	-57.45	122.45	485,489.28	796,177.38	32° 19' 55.143 N	103° 30' 29.747 W
4,117.00	2.09	111.29	4,112.67	-58.10	126.23	485,488.62	796,181.16	32° 19' 55.136 N	103° 30' 29.703 W
4,212.00	2.45	100.18	4,207.60	-59.09	129.84	485,487.63	796,184.77	32° 19' 55.126 N	103° 30' 29.661 W
4,307.00	3.05	94.21	4,302.49	-59.63	134.36	485,487.09	796,189.29	32° 19' 55.120 N	103° 30' 29.609 W
4,402.00	3.03	98.50	4,397.36	-60.19	139.36	485,486.53	796,194.29	32° 19' 55.114 N	103° 30' 29.550 W
4,497.00	2.84	92.01	4,492.23	-60.64	144.20	485,486.08	796,199.13	32° 19' 55.109 N	103° 30' 29.494 W
4,591.00	2.55	91.95	4,586.13	-60.79	148.62	485,485.93	796,203.55	32° 19' 55.107 N	103° 30' 29.443 W
4,686.00	2.38	92.79	4,681.04	-60.96	152.70	485,485.76	796,207.63	32° 19' 55.105 N	103° 30' 29.395 W
4,781.00	1.98	88.14	4,775.97	-61.01	156.31	485,485.72	796,211.24	32° 19' 55.105 N	103° 30' 29.353 W
4,833.00	1.82	89.19	4,827.94	-60.96	158.03	485,485.76	796,212.96	32° 19' 55.105 N	103° 30' 29.333 W
4,961.00	1.35	90.45	4,955.89	-60.95	161.57	485,485.77	796,216.50	32° 19' 55.105 N	103° 30' 29.292 W
5,055.00	1.62	91.90	5,049.86	-61.00	164.01	485,485.72	796,218.94	32° 19' 55.104 N	103° 30' 29.263 W
5,150.00	1.64	85.38	5,144.82	-60.94	166.71	485,485.79	796,221.63	32° 19' 55.105 N	103° 30' 29.232 W
5,245.00	1.56	147.66	5,239.79	-61.92	168.75	485,484.80	796,223.68	32° 19' 55.095 N	103° 30' 29.208 W
5,340.00	1.80	156.51	5,334.75	-64.38	170.04	485,482.34	796,224.97	32° 19' 55.070 N	103° 30' 29.193 W
5,435.00	1.45	151.22	5,429.71	-66.80	171.21	485,479.92	796,226.14	32° 19' 55.046 N	103° 30' 29.180 W
5,529.00	1.40	148.72	5,523.68	-68.82	172.38	485,477.90	796,227.31	32° 19' 55.026 N	103° 30' 29.166 W
5,624.00	1.59	150.82	5,618.65	-70.97	173.63	485,475.75	796,228.55	32° 19' 55.005 N	103° 30' 29.152 W
5,719.00	1.63	147.32	5,713.61	-73.26	175.00	485,473.47	796,229.93	32° 19' 54.982 N	103° 30' 29.136 W
5,814.00	1.62	144.70	5,808.58	-75.49	176.50	485,471.23	796,231.43	32° 19' 54.960 N	103° 30' 29.119 W
5,909.00	1.40	135.95	5,903.54	-77.42	178.09	485,469.30	796,233.02	32° 19' 54.941 N	103° 30' 29.101 W
6,004.00	1.54	140.33	5,998.51	-79.24	179.71	485,467.49	796,234.64	32° 19' 54.923 N	103° 30' 29.082 W
6,099.00	1.56	136.28	6,093.48	-81.15	181.42	485,465.57	796,236.35	32° 19' 54.904 N	103° 30' 29.062 W
6,194.00	1.42	129.96	6,188.45	-82.84	183.21	485,463.88	796,238.14	32° 19' 54.887 N	103° 30' 29.041 W
6,288.00	1.48	129.57	6,282.42	-84.36	185.04	485,462.36	796,239.97	32° 19' 54.871 N	103° 30' 29.020 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 428H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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
6,383.00	1.35	129.02	6,377.39	-85.85	186.86	485,460.87	796,241.79	32° 19' 54.857 N	103° 30' 28.999 W
6,478.00	1.39	126.33	6,472.36	-87.24	188.66	485,459.48	796,243.58	32° 19' 54.843 N	103° 30' 28.978 W
6,573.00	1.43	136.08	6,567.33	-88.77	190.41	485,457.95	796,245.33	32° 19' 54.827 N	103° 30' 28.958 W
6,668.00	1.42	129.89	6,662.30	-90.38	192.13	485,456.34	796,247.06	32° 19' 54.811 N	103° 30' 28.938 W
6,763.00	1.41	137.36	6,757.27	-92.00	193.83	485,454.72	796,248.75	32° 19' 54.795 N	103° 30' 28.918 W
6,857.00	1.24	139.57	6,851.25	-93.62	195.27	485,453.10	796,250.20	32° 19' 54.779 N	103° 30' 28.902 W
6,952.00	1.53	136.06	6,946.22	-95.32	196.82	485,451.40	796,251.74	32° 19' 54.762 N	103° 30' 28.884 W
7,047.00	1.37	138.08	7,041.19	-97.08	198.45	485,449.64	796,253.38	32° 19' 54.745 N	103° 30' 28.865 W
7,142.00	1.51	139.90	7,136.16	-98.88	200.02	485,447.84	796,254.95	32° 19' 54.727 N	103° 30' 28.847 W
7,236.00	1.44	134.86	7,230.13	-100.66	201.65	485,446.06	796,256.58	32° 19' 54.709 N	103° 30' 28.828 W
7,331.00	1.14	131.64	7,325.10	-102.13	203.21	485,444.59	796,258.13	32° 19' 54.694 N	103° 30' 28.810 W
7,426.00	1.31	133.18	7,420.08	-103.50	204.71	485,443.22	796,259.63	32° 19' 54.681 N	103° 30' 28.793 W
7,521.00	1.32	137.63	7,515.06	-105.05	206.23	485,441.67	796,261.16	32° 19' 54.665 N	103° 30' 28.775 W
7,615.00	1.14	144.34	7,609.04	-106.61	207.51	485,440.11	796,262.44	32° 19' 54.650 N	103° 30' 28.760 W
7,710.00	1.05	137.00	7,704.02	-108.02	208.65	485,438.70	796,263.58	32° 19' 54.636 N	103° 30' 28.747 W
7,805.00	1.24	152.30	7,799.00	-109.56	209.73	485,437.16	796,264.65	32° 19' 54.620 N	103° 30' 28.735 W
7,900.00	1.19	146.90	7,893.98	-111.30	210.74	485,435.42	796,265.67	32° 19' 54.603 N	103° 30' 28.723 W
7,995.00	1.10	139.83	7,988.96	-112.82	211.87	485,433.90	796,266.80	32° 19' 54.588 N	103° 30' 28.710 W
8,089.00	1.12	134.90	8,082.94	-114.16	213.10	485,432.56	796,268.03	32° 19' 54.574 N	103° 30' 28.696 W
8,184.00	1.26	135.05	8,177.92	-115.56	214.50	485,431.17	796,269.42	32° 19' 54.561 N	103° 30' 28.680 W
8,279.00	1.46	125.89	8,272.89	-117.00	216.22	485,429.72	796,271.14	32° 19' 54.546 N	103° 30' 28.660 W
8,374.00	1.49	125.46	8,367.86	-118.43	218.20	485,428.29	796,273.13	32° 19' 54.532 N	103° 30' 28.637 W
8,469.00	1.61	127.18	8,462.83	-119.95	220.27	485,426.77	796,275.20	32° 19' 54.517 N	103° 30' 28.613 W
8,564.00	1.63	118.38	8,557.79	-121.40	222.52	485,425.32	796,277.45	32° 19' 54.502 N	103° 30' 28.587 W
8,658.00	1.60	107.12	8,651.75	-122.42	224.95	485,424.30	796,279.88	32° 19' 54.492 N	103° 30' 28.558 W
8,753.00	1.74	105.31	8,746.71	-123.19	227.61	485,423.53	796,282.54	32° 19' 54.484 N	103° 30' 28.527 W
8,848.00	1.79	101.16	8,841.67	-123.86	230.46	485,422.86	796,285.39	32° 19' 54.477 N	103° 30' 28.494 W
8,943.00	1.33	102.90	8,936.63	-124.40	232.99	485,422.32	796,287.92	32° 19' 54.472 N	103° 30' 28.465 W
9,038.00	0.79	56.31	9,031.62	-124.28	234.61	485,422.44	796,289.54	32° 19' 54.473 N	103° 30' 28.446 W
9,133.00	0.95	51.99	9,126.61	-123.43	235.77	485,423.29	796,290.70	32° 19' 54.481 N	103° 30' 28.432 W
9,228.00	1.26	61.16	9,221.59	-122.44	237.31	485,424.28	796,292.24	32° 19' 54.491 N	103° 30' 28.414 W
9,323.00	1.01	43.38	9,316.57	-121.33	238.80	485,425.39	796,293.73	32° 19' 54.502 N	103° 30' 28.397 W
9,418.00	1.07	43.13	9,411.55	-120.07	239.98	485,426.65	796,294.91	32° 19' 54.514 N	103° 30' 28.383 W
9,513.00	0.90	73.56	9,506.54	-119.21	241.30	485,427.51	796,296.23	32° 19' 54.522 N	103° 30' 28.368 W
9,608.00	0.91	100.70	9,601.53	-119.14	242.76	485,427.58	796,297.69	32° 19' 54.523 N	103° 30' 28.351 W
9,703.00	0.77	118.43	9,696.52	-119.59	244.06	485,427.13	796,298.99	32° 19' 54.518 N	103° 30' 28.335 W
9,797.00	0.94	139.20	9,790.51	-120.47	245.12	485,426.25	796,300.05	32° 19' 54.510 N	103° 30' 28.323 W
9,892.00	1.13	147.58	9,885.49	-121.85	246.13	485,424.87	796,301.06	32° 19' 54.496 N	103° 30' 28.312 W
9,987.00	1.19	146.25	9,980.47	-123.46	247.18	485,423.26	796,302.11	32° 19' 54.480 N	103° 30' 28.299 W
10,082.00	1.23	145.35	10,075.45	-125.12	248.31	485,421.60	796,303.24	32° 19' 54.463 N	103° 30' 28.286 W
10,177.00	1.20	145.55	10,170.43	-126.78	249.45	485,419.94	796,304.38	32° 19' 54.447 N	103° 30' 28.273 W
10,271.00	0.58	148.46	10,264.42	-128.00	250.26	485,418.72	796,305.19	32° 19' 54.435 N	103° 30' 28.264 W
10,366.00	0.78	159.16	10,359.41	-129.01	250.74	485,417.71	796,305.67	32° 19' 54.425 N	103° 30' 28.258 W
10,461.00	0.83	149.31	10,454.40	-130.21	251.32	485,416.51	796,306.25	32° 19' 54.413 N	103° 30' 28.252 W
10,556.00	0.96	172.75	10,549.39	-131.59	251.77	485,415.13	796,306.70	32° 19' 54.399 N	103° 30' 28.247 W
10,641.00	1.08	176.56	10,634.38	-133.10	251.91	485,413.62	796,306.84	32° 19' 54.384 N	103° 30' 28.245 W
10,765.00	0.59	203.65	10,758.37	-134.85	251.73	485,411.87	796,306.65	32° 19' 54.367 N	103° 30' 28.247 W
10,860.00	13.47	9.62	10,852.53	-124.33	253.39	485,422.39	796,308.32	32° 19' 54.471 N	103° 30' 28.227 W
10,955.00	22.06	5.50	10,942.92	-95.61	256.95	485,451.11	796,311.88	32° 19' 54.755 N	103° 30' 28.183 W
11,049.00	31.46	2.55	11,026.76	-53.44	259.74	485,493.28	796,314.67	32° 19' 55.172 N	103° 30' 28.147 W
11,144.00	38.05	9.19	11,104.80	0.31	265.53	485,547.03	796,320.46	32° 19' 55.703 N	103° 30' 28.074 W
11,239.00	48.51	3.01	11,173.89	64.95	272.10	485,611.67	796,327.02	32° 19' 56.342 N	103° 30' 27.992 W
11,334.00	58.91	355.92	11,230.09	141.32	271.07	485,688.05	796,325.99	32° 19' 57.098 N	103° 30' 27.997 W
11,429.00	65.10	354.99	11,274.66	224.90	264.40	485,771.62	796,319.33	32° 19' 57.926 N	103° 30' 28.067 W
11,524.00	71.48	353.56	11,309.79	312.67	255.58	485,859.39	796,310.51	32° 19' 58.795 N	103° 30' 28.162 W

Kaiser-Francis Oil Company

Survey Report - Geographic



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Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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
11,618.00	72.80	357.13	11,338.62	401.83	248.33	485,948.55	796,303.26	32° 19' 59.677 N	103° 30' 28.239 W
11,654.00	73.89	358.99	11,348.94	436.30	247.16	485,983.02	796,302.09	32° 20' 0.019 N	103° 30' 28.249 W
11,748.00	76.48	359.11	11,372.98	527.15	245.66	486,073.87	796,300.59	32° 20' 0.918 N	103° 30' 28.259 W
11,843.00	79.35	359.43	11,392.86	620.03	244.48	486,166.75	796,299.40	32° 20' 1.837 N	103° 30' 28.264 W
11,871.96	80.20	359.42	11,398.00	648.53	244.19	486,195.25	796,299.12	32° 20' 2.119 N	103° 30' 28.265 W
11,938.00	82.15	359.40	11,408.13	713.78	243.52	486,260.50	796,298.45	32° 20' 2.765 N	103° 30' 28.267 W
12,032.00	84.92	358.93	11,418.72	807.16	242.16	486,353.88	796,297.08	32° 20' 3.689 N	103° 30' 28.274 W
12,127.00	87.09	358.70	11,425.34	901.90	240.20	486,448.63	796,295.12	32° 20' 4.626 N	103° 30' 28.289 W
12,222.00	86.89	358.13	11,430.32	996.74	237.57	486,543.46	796,292.50	32° 20' 5.565 N	103° 30' 28.311 W
12,317.00	85.71	357.89	11,436.46	1,091.48	234.28	486,638.20	796,289.21	32° 20' 6.503 N	103° 30' 28.341 W
12,412.00	85.37	358.89	11,443.84	1,186.15	231.62	486,732.87	796,286.55	32° 20' 7.440 N	103° 30' 28.363 W
12,506.00	85.01	359.12	11,451.72	1,279.81	229.99	486,826.53	796,284.92	32° 20' 8.366 N	103° 30' 28.374 W
12,601.00	85.85	359.57	11,459.29	1,374.50	228.91	486,921.22	796,283.84	32° 20' 9.303 N	103° 30' 28.378 W
12,696.00	87.03	0.05	11,465.19	1,469.31	228.60	487,016.03	796,283.52	32° 20' 10.242 N	103° 30' 28.373 W
12,791.00	86.30	0.13	11,470.72	1,564.15	228.74	487,110.87	796,283.67	32° 20' 11.180 N	103° 30' 28.363 W
12,886.00	86.77	359.94	11,476.46	1,658.98	228.80	487,205.70	796,283.73	32° 20' 12.118 N	103° 30' 28.354 W
12,981.00	88.46	0.35	11,480.41	1,753.89	229.04	487,300.61	796,283.97	32° 20' 13.057 N	103° 30' 28.342 W
13,075.00	86.94	359.96	11,484.19	1,847.81	229.30	487,394.53	796,284.22	32° 20' 13.987 N	103° 30' 28.331 W
13,170.00	87.31	0.18	11,488.95	1,942.69	229.41	487,489.41	796,284.34	32° 20' 14.926 N	103° 30' 28.321 W
13,265.00	91.32	0.27	11,490.09	2,037.67	229.79	487,584.39	796,284.71	32° 20' 15.865 N	103° 30' 28.308 W
13,360.00	89.27	359.56	11,489.60	2,132.66	229.64	487,679.38	796,284.57	32° 20' 16.805 N	103° 30' 28.301 W
13,455.00	89.78	358.95	11,490.39	2,227.65	228.41	487,774.37	796,283.34	32° 20' 17.745 N	103° 30' 28.307 W
13,550.00	91.01	358.88	11,489.73	2,322.63	226.61	487,869.35	796,281.54	32° 20' 18.685 N	103° 30' 28.319 W
13,644.00	92.69	358.06	11,486.70	2,416.54	224.10	487,963.26	796,279.03	32° 20' 19.615 N	103° 30' 28.340 W
13,739.00	92.44	357.70	11,482.44	2,511.38	220.59	488,058.10	796,275.52	32° 20' 20.553 N	103° 30' 28.373 W
13,833.00	93.59	357.96	11,477.50	2,605.18	217.04	488,151.90	796,271.97	32° 20' 21.482 N	103° 30' 28.406 W
13,928.00	92.66	357.78	11,472.32	2,699.97	213.51	488,246.69	796,268.44	32° 20' 22.420 N	103° 30' 28.438 W
14,022.00	93.73	358.47	11,467.08	2,793.77	210.44	488,340.49	796,265.37	32° 20' 23.348 N	103° 30' 28.466 W
14,117.00	93.71	0.41	11,460.92	2,888.56	209.51	488,435.28	796,264.44	32° 20' 24.286 N	103° 30' 28.468 W
14,212.00	93.00	1.83	11,455.36	2,983.38	211.37	488,530.10	796,266.30	32° 20' 25.224 N	103° 30' 28.438 W
14,307.00	89.66	2.13	11,453.15	3,078.28	214.65	488,625.00	796,269.58	32° 20' 26.163 N	103° 30' 28.391 W
14,402.00	89.97	1.76	11,453.46	3,173.23	217.87	488,719.95	796,272.80	32° 20' 27.102 N	103° 30' 28.345 W
14,416.76	89.77	1.97	11,453.49	3,187.98	218.35	488,734.70	796,273.28	32° 20' 27.248 N	103° 30' 28.338 W
14,497.00	88.68	3.11	11,454.58	3,268.13	221.91	488,814.85	796,276.84	32° 20' 28.041 N	103° 30' 28.289 W
14,592.00	89.38	3.34	11,456.19	3,362.97	227.25	488,909.69	796,282.18	32° 20' 28.979 N	103° 30' 28.219 W
14,686.00	87.84	3.59	11,458.47	3,456.76	232.93	489,003.49	796,287.86	32° 20' 29.907 N	103° 30' 28.144 W
14,781.00	87.93	4.03	11,461.97	3,551.49	239.24	489,098.21	796,294.17	32° 20' 30.844 N	103° 30' 28.062 W
14,876.00	86.98	3.40	11,466.19	3,646.20	245.39	489,192.92	796,300.32	32° 20' 31.780 N	103° 30' 27.982 W
14,971.00	86.63	1.42	11,471.49	3,740.96	249.38	489,287.68	796,304.31	32° 20' 32.718 N	103° 30' 27.927 W
15,066.00	87.28	1.13	11,476.53	3,835.80	251.49	489,382.52	796,306.42	32° 20' 33.656 N	103° 30' 27.894 W
15,160.00	88.32	2.15	11,480.14	3,929.69	254.18	489,476.41	796,309.11	32° 20' 34.585 N	103° 30' 27.854 W
15,255.00	89.80	2.53	11,481.70	4,024.60	258.06	489,571.32	796,312.98	32° 20' 35.523 N	103° 30' 27.800 W
15,350.00	88.43	2.20	11,483.17	4,119.50	261.98	489,666.22	796,316.90	32° 20' 36.462 N	103° 30' 27.746 W
15,445.00	85.97	0.02	11,487.81	4,214.36	263.82	489,761.08	796,318.74	32° 20' 37.401 N	103° 30' 27.716 W
15,540.00	86.30	0.46	11,494.21	4,309.14	264.21	489,855.86	796,319.14	32° 20' 38.339 N	103° 30' 27.703 W
15,635.00	85.55	0.58	11,500.96	4,403.89	265.07	489,950.62	796,320.00	32° 20' 39.276 N	103° 30' 27.684 W
15,729.00	85.29	0.14	11,508.47	4,497.59	265.66	490,044.31	796,320.59	32° 20' 40.203 N	103° 30' 27.669 W
15,824.00	89.02	359.19	11,513.18	4,592.46	265.11	490,139.18	796,320.03	32° 20' 41.142 N	103° 30' 27.667 W
15,919.00	89.13	358.43	11,514.72	4,687.42	263.13	490,234.14	796,318.06	32° 20' 42.082 N	103° 30' 27.681 W
16,014.00	89.55	358.24	11,515.81	4,782.38	260.37	490,329.10	796,315.30	32° 20' 43.021 N	103° 30' 27.705 W
16,109.00	91.20	358.30	11,515.19	4,877.33	257.51	490,424.05	796,312.43	32° 20' 43.961 N	103° 30' 27.730 W
16,203.00	92.19	357.96	11,512.41	4,971.23	254.44	490,517.95	796,309.37	32° 20' 44.891 N	103° 30' 27.757 W
16,298.00	91.99	357.87	11,508.95	5,066.11	250.99	490,612.83	796,305.91	32° 20' 45.830 N	103° 30' 27.789 W
16,393.00	94.46	358.72	11,503.60	5,160.91	248.16	490,707.63	796,303.09	32° 20' 46.768 N	103° 30' 27.813 W
16,474.00	93.53	0.90	11,497.96	5,241.70	247.90	490,788.43	796,302.82	32° 20' 47.567 N	103° 30' 27.809 W

Kaiser-Francis Oil Company

Survey Report - Geographic



Company:	Kaiser-Francis Oil Co.	Local Co-ordinate Reference:	Well BELL LAKE UNIT NORTH 428H
Project:	Lea County, NM (NAD 83)	TVD Reference:	23.9' @ 3499.40usft (Cactus 171)
Site:	SEC 6, T23S, R34E	MD Reference:	23.9' @ 3499.40usft (Cactus 171)
Well:	BELL LAKE UNIT NORTH 428H	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
16,585.00	92.55	1.68	11,492.07	5,352.52	250.39	490,899.24	796,305.32	32° 20' 48.664 N	103° 30' 27.770 W
16,680.00	90.22	0.39	11,489.77	5,447.47	252.11	490,994.19	796,307.03	32° 20' 49.603 N	103° 30' 27.742 W
16,775.00	90.03	0.57	11,489.57	5,542.46	252.90	491,089.18	796,307.83	32° 20' 50.543 N	103° 30' 27.724 W
16,870.00	90.00	1.22	11,489.54	5,637.45	254.39	491,184.17	796,309.31	32° 20' 51.483 N	103° 30' 27.698 W
16,965.00	90.00	1.04	11,489.54	5,732.43	256.26	491,279.15	796,311.19	32° 20' 52.422 N	103° 30' 27.668 W
17,059.00	89.41	1.20	11,490.03	5,826.41	258.10	491,373.13	796,313.02	32° 20' 53.352 N	103° 30' 27.638 W
17,154.00	89.83	1.46	11,490.66	5,921.38	260.30	491,468.10	796,315.23	32° 20' 54.292 N	103° 30' 27.603 W
17,249.00	90.08	1.83	11,490.73	6,016.34	263.03	491,563.07	796,317.96	32° 20' 55.231 N	103° 30' 27.563 W
17,344.00	88.94	2.03	11,491.54	6,111.29	266.23	491,658.01	796,321.16	32° 20' 56.170 N	103° 30' 27.517 W
17,439.00	90.11	1.81	11,492.33	6,206.23	269.41	491,752.95	796,324.34	32° 20' 57.110 N	103° 30' 27.472 W
17,534.00	86.47	0.55	11,495.17	6,301.15	271.37	491,847.87	796,326.29	32° 20' 58.049 N	103° 30' 27.440 W
17,629.00	85.21	0.23	11,502.06	6,395.89	272.01	491,942.61	796,326.94	32° 20' 58.986 N	103° 30' 27.424 W
17,724.00	84.69	0.30	11,510.42	6,490.52	272.45	492,037.24	796,327.38	32° 20' 59.922 N	103° 30' 27.411 W
17,818.00	88.91	358.63	11,515.67	6,584.35	271.57	492,131.07	796,326.50	32° 21' 0.851 N	103° 30' 27.412 W
17,913.00	90.25	356.10	11,516.36	6,679.23	267.20	492,225.96	796,322.13	32° 21' 1.790 N	103° 30' 27.455 W
18,008.00	88.49	355.66	11,517.41	6,773.98	260.38	492,320.70	796,315.31	32° 21' 2.728 N	103° 30' 27.526 W
18,103.00	88.51	354.53	11,519.89	6,868.60	252.26	492,415.32	796,307.19	32° 21' 3.665 N	103° 30' 27.612 W
18,198.00	89.58	354.44	11,521.48	6,963.14	243.13	492,509.86	796,298.06	32° 21' 4.601 N	103° 30' 27.710 W
18,293.00	92.58	354.36	11,519.69	7,057.66	233.86	492,604.38	796,288.79	32° 21' 5.537 N	103° 30' 27.809 W
18,386.00	92.88	353.35	11,515.26	7,150.02	223.92	492,696.74	796,278.85	32° 21' 6.452 N	103° 30' 27.917 W
18,481.00	92.33	355.14	11,510.94	7,244.44	214.40	492,791.16	796,269.33	32° 21' 7.387 N	103° 30' 28.020 W
18,576.00	92.32	356.88	11,507.08	7,339.13	207.80	492,885.85	796,262.73	32° 21' 8.324 N	103° 30' 28.088 W
18,671.00	89.13	358.73	11,505.88	7,434.04	204.16	492,980.76	796,259.09	32° 21' 9.263 N	103° 30' 28.122 W
18,765.00	88.82	359.67	11,507.56	7,528.01	202.85	493,074.73	796,257.78	32° 21' 10.193 N	103° 30' 28.129 W
18,860.00	89.24	0.23	11,509.17	7,623.00	202.77	493,169.72	796,257.69	32° 21' 11.133 N	103° 30' 28.121 W
18,955.00	89.10	0.83	11,510.55	7,717.98	203.65	493,264.70	796,258.57	32° 21' 12.073 N	103° 30' 28.102 W
19,050.00	87.31	359.97	11,513.52	7,812.93	204.31	493,359.65	796,259.24	32° 21' 13.013 N	103° 30' 28.086 W
19,145.00	89.89	358.87	11,515.85	7,907.88	203.35	493,454.61	796,258.27	32° 21' 13.952 N	103° 30' 28.089 W
19,239.00	85.58	357.71	11,519.56	8,001.75	200.55	493,548.47	796,255.47	32° 21' 14.881 N	103° 30' 28.113 W
19,334.00	87.14	357.77	11,525.59	8,096.48	196.81	493,643.20	796,251.74	32° 21' 15.819 N	103° 30' 28.148 W
19,429.00	84.45	357.24	11,532.56	8,191.12	192.68	493,737.84	796,247.61	32° 21' 16.756 N	103° 30' 28.188 W
19,524.00	85.74	356.67	11,540.68	8,285.64	187.66	493,832.36	796,242.58	32° 21' 17.691 N	103° 30' 28.238 W
19,557.00	86.97	356.19	11,542.78	8,318.51	185.61	493,865.23	796,240.53	32° 21' 18.017 N	103° 30' 28.259 W
19,616.00	86.97	356.19	11,545.90	8,377.29	181.69	493,924.02	796,236.62	32° 21' 18.599 N	103° 30' 28.299 W

Checked By: _____ Approved By: _____ Date: _____

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R34E / SEC 6 / NWSE / 32.3322411 / -103.5090466	County or Parish/State: LEA / NM
Well Number: 428H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0000587, NMNM0587	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002547854	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: 12:52
Date Operation Actually Began: 03/19/2021	

Actual Procedure: 2/21: Pressure test csg 13,000#. Test annulus to 500#. TCP Stage 1: 19,290'-19,412' O/A w/5, 3 1/8" guns. BD perfs @ 7,000#. Establish injection to perfs: 5 BPM @ 8,100# for 40 bbls of 2% KCl with additives. SD and isolate well. ISIP 7,950#, 5 min 4,805#, 10 min 4,869#, 15 min 4,805#. 3/21: Stage-Frac lateral 11,872'-19,412' O/A in 43 stages w/111,00 gal 15% HCl, 387,772 bbls SW and 45,408 bbls HVFR carrying 1,844,907# 100M and 19,488,602# 30/50 Econo. Drilled out all plugs w/ 4.5" roller cone bit. TLTR: 444,590 bbls. SICP: 3,400#.

SR Attachments

Actual Procedure

BLUN_428H_WBD_20210511125208.pdf

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R34E / SEC 6 / NWSE / 32.3322411 / -103.5090466	County or Parish/State: LEA / NM
Well Number: 428H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0000587, NMNM0587	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002547854	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 12:52 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										
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: 428H		
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:	J	6	23S	34E		2095	South	2455	East	Lea
BH:	B	31	22S	34E		93	North	2217	East	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.)		
11/24/20	12/17/20		12/19/20			3/28/21		3475.5		
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
19616MD/11546TVD			19444MD/11535TVD			Yes		GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
11872-19412								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		1203'		17-1/2"		1030		
10-3/4"		45.5		4865'		12-1/4"		905		
7-5/8"		29.7		10664'		9-7/8"		1180		
5-1/2"		23		19586'		6-3/4"		1640		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
11872'-19412', .41, 1935						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11872-		21333509 lbs sd+		
						19412		435823 bbls fluid		
28. PRODUCTION										
Date First Production		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)				Well Status (<i>Prod. or Shut-in</i>)				
6/10/21		Flowing				Prod				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
7/25/21	24	24/64		1204	3204	1943	2661			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
	2800		1204	3204	1943	45				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>)								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>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</i>										
Signature Erica Miles			Printed Name Erica Miles			Title Geosciences Technician			Date 8/6/21	
E-mail Address EricaM@kfoc.net										

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. 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
1118	MD		Rustler				
4981	MD		Delaware Group				
8494	MD		Upper Avalon				
9534	MD		1st Bone Spring Sd				
9927	MD		2nd Bone Spring Lm				
10062	MD		2nd Bone Spring Sd				
10512	MD		3rd Bone Spring Lm				
11017	MD		3rd Bone Spring Sd				
11473	MD		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 40659

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 40659
	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 40659

CONDITIONS

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	Action Number: 40659
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/8/2021