

Well Name: BELL LAKE UNIT NORTH	Well Location: T23S / R34E / SEC 6 / SENE / 32.3359572 / -103.501281	County or Parish/State: LEA / NM
Well Number: 213H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0587	Unit or CA Name: BELL LAKE	Unit or CA Number: NMNM068292X, NMNM68292X
US Well Number: 3002548552	Well Status: Producing Oil Well	Operator: KAISER FRANCIS OIL COMPANY

Notice of Intent

Sundry ID: 1519318

Type of Submission: Notice of Intent	Type of Action: Deepen Well
Date Sundry Submitted: 03/24/2021	Time Sundry Submitted: 09:05
Date proposed operation will begin: 03/30/2021	

Procedure Description: Kaiser-Francis Oil Company request to change the targeted formation to from the Bone Spring pool to the Wolfcamp pool. A sundry has been submitted to request to change the casing design to a four string Wolfcamp design. Pool will be changed to the OJo Chiso; Wolfcamp Southwest pool 98265

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- BLUN_213H_P1_PLOT_20210324085933.pdf
- BELL_LAKE_UNIT_N._213H_PLAN_1_20210324085933.pdf

Received by OCD: 7/20/2023 1:21:44 PM

Page 2 of 12

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Conditions of Approval

Specialist Review

BELL_LAKE_UNIT_NORTH_213H_APD_Calculations_Sundry_20210325133022.pdf

Operator

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

Operator Electronic Signature: ERIC HANSEN	Signed on: MAR 24, 2021 09:05 AM
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 Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: RACHEL O IJABIKEN	BLM POC Title: Engineer
BLM POC Phone: 5752346256	BLM POC Email Address: RIJABIKEN@BLM.GOV
Disposition: Approved	Disposition Date: 03/25/2021
Signature: RACHEL IJABIKEN PETROLEUM ENGINEER BLM-CFO.	



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 6-T23S-R34E

BELL LAKE UNIT N. 213H

HORIZONTAL

Plan: PLAN 1

Standard Planning Report

14 March, 2021



SB Directional Services

Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 213H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Project	LEA COUNTY, N.M. 27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SEC 6-T23S-R34E		
Site Position:		Northing:	485,269.02 usft
From:	Map	Easting:	756,497.04 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.33139
		Longitude:	-103.50292
		Grid Convergence:	0.44 °

Well	BELL LAKE UNIT N. 213H		
Well Position	+N/-S	1,622.41 usft	Northing: 486,891.43 usft
	+E/-W	642.58 usft	Easting: 757,139.62 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,451.30 usft
		Latitude:	32.33583
		Longitude:	-103.50080
		Ground Level:	3,451.30 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2021/03/14	6.55	60.02	47,593.63965246

Design	PLAN 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Survey Tool Program	Date	2021/03/14		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,609.60	PLAN 1 (HORIZONTAL)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	12.00	114.98	1,395.62	-26.43	56.75	2.00	2.00	0.00	114.98	
4,180.11	12.00	114.98	4,114.98	-270.49	580.72	0.00	0.00	0.00	0.00	
4,980.11	0.00	0.00	4,909.14	-305.73	656.38	1.50	-1.50	0.00	180.00	
10,932.00	0.00	0.00	10,861.04	-305.73	656.38	0.00	0.00	0.00	0.00	KOP BLUN213
11,832.00	90.00	180.37	11,434.00	-878.68	652.67	10.00	10.00	-19.96	180.37	
19,609.60	90.00	180.37	11,434.00	-8,656.11	602.26	0.00	0.00	0.00	0.00	PBHL BLUN213



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Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge									
900.00	2.00	114.98	899.98	-0.74	1.58	0.74	2.00	2.00	0.00
1,000.00	4.00	114.98	999.84	-2.95	6.33	2.95	2.00	2.00	0.00
1,100.00	6.00	114.98	1,099.45	-6.63	14.23	6.63	2.00	2.00	0.00
1,152.89	7.06	114.98	1,152.00	-9.17	19.68	9.17	2.00	2.00	0.00
Rustler									
1,200.00	8.00	114.98	1,198.70	-11.77	25.27	11.77	2.00	2.00	0.00
1,300.00	10.00	114.98	1,297.47	-18.38	39.45	18.38	2.00	2.00	0.00
1,400.00	12.00	114.98	1,395.62	-26.43	56.75	26.43	2.00	2.00	0.00
Hold 12°									
1,500.00	12.00	114.98	1,493.44	-35.21	75.60	35.21	0.00	0.00	0.00
1,529.20	12.00	114.98	1,522.00	-37.77	81.10	37.77	0.00	0.00	0.00
Salado									
1,600.00	12.00	114.98	1,591.25	-43.99	94.44	43.99	0.00	0.00	0.00
1,700.00	12.00	114.98	1,689.07	-52.77	113.29	52.77	0.00	0.00	0.00
1,733.67	12.00	114.98	1,722.00	-55.72	119.64	55.72	0.00	0.00	0.00
Top of Salt									
1,800.00	12.00	114.98	1,786.88	-61.55	132.14	61.55	0.00	0.00	0.00
1,900.00	12.00	114.98	1,884.70	-70.33	150.98	70.33	0.00	0.00	0.00
2,000.00	12.00	114.98	1,982.51	-79.10	169.83	79.10	0.00	0.00	0.00
2,100.00	12.00	114.98	2,080.33	-87.88	188.68	87.88	0.00	0.00	0.00
2,200.00	12.00	114.98	2,178.14	-96.66	207.52	96.66	0.00	0.00	0.00
2,300.00	12.00	114.98	2,275.96	-105.44	226.37	105.44	0.00	0.00	0.00
2,400.00	12.00	114.98	2,373.77	-114.22	245.22	114.22	0.00	0.00	0.00
2,500.00	12.00	114.98	2,471.59	-123.00	264.07	123.00	0.00	0.00	0.00
2,600.00	12.00	114.98	2,569.40	-131.78	282.91	131.78	0.00	0.00	0.00
2,700.00	12.00	114.98	2,667.22	-140.55	301.76	140.55	0.00	0.00	0.00
2,800.00	12.00	114.98	2,765.03	-149.33	320.61	149.33	0.00	0.00	0.00
2,900.00	12.00	114.98	2,862.84	-158.11	339.45	158.11	0.00	0.00	0.00
3,000.00	12.00	114.98	2,960.66	-166.89	358.30	166.89	0.00	0.00	0.00
3,100.00	12.00	114.98	3,058.47	-175.67	377.15	175.67	0.00	0.00	0.00
3,200.00	12.00	114.98	3,156.29	-184.45	395.99	184.45	0.00	0.00	0.00
3,300.00	12.00	114.98	3,254.10	-193.23	414.84	193.23	0.00	0.00	0.00
3,400.00	12.00	114.98	3,351.92	-202.00	433.69	202.00	0.00	0.00	0.00
3,500.00	12.00	114.98	3,449.73	-210.78	452.54	210.78	0.00	0.00	0.00
3,600.00	12.00	114.98	3,547.55	-219.56	471.38	219.56	0.00	0.00	0.00
3,700.00	12.00	114.98	3,645.36	-228.34	490.23	228.34	0.00	0.00	0.00
3,800.00	12.00	114.98	3,743.18	-237.12	509.08	237.12	0.00	0.00	0.00
3,900.00	12.00	114.98	3,840.99	-245.90	527.92	245.90	0.00	0.00	0.00
4,000.00	12.00	114.98	3,938.81	-254.68	546.77	254.68	0.00	0.00	0.00
4,100.00	12.00	114.98	4,036.62	-263.45	565.62	263.45	0.00	0.00	0.00
4,180.11	12.00	114.98	4,114.98	-270.49	580.72	270.49	0.00	0.00	0.00
Start Drop									
4,200.00	11.70	114.98	4,134.45	-272.21	584.42	272.21	1.50	-1.50	0.00



SB Directional Services

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Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.00	10.20	114.98	4,232.62	-280.23	601.64	280.23	1.50	-1.50	0.00
4,400.00	8.70	114.98	4,331.26	-287.17	616.52	287.17	1.50	-1.50	0.00
4,500.00	7.20	114.98	4,430.30	-293.01	629.06	293.01	1.50	-1.50	0.00
4,600.00	5.70	114.98	4,529.66	-297.75	639.25	297.75	1.50	-1.50	0.00
4,692.69	4.31	114.98	4,622.00	-301.17	646.58	301.17	1.50	-1.50	0.00
Base of Salt									
4,700.00	4.20	114.98	4,629.29	-301.40	647.07	301.40	1.50	-1.50	0.00
4,800.00	2.70	114.98	4,729.10	-303.94	652.53	303.94	1.50	-1.50	0.00
4,900.00	1.20	114.98	4,829.04	-305.38	655.62	305.38	1.50	-1.50	0.00
4,942.96	0.56	114.98	4,872.00	-305.65	656.22	305.65	1.50	-1.50	0.00
Lamar									
4,980.11	0.00	0.00	4,909.15	-305.73	656.38	305.73	1.50	-1.50	0.00
Hold 0°									
5,000.00	0.00	0.00	4,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,100.00	0.00	0.00	5,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,142.96	0.00	0.00	5,072.00	-305.73	656.38	305.73	0.00	0.00	0.00
Bell Can									
5,200.00	0.00	0.00	5,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,300.00	0.00	0.00	5,229.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,400.00	0.00	0.00	5,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,500.00	0.00	0.00	5,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,600.00	0.00	0.00	5,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,700.00	0.00	0.00	5,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,800.00	0.00	0.00	5,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,900.00	0.00	0.00	5,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
5,982.96	0.00	0.00	5,912.00	-305.73	656.38	305.73	0.00	0.00	0.00
Cherry Can									
6,000.00	0.00	0.00	5,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,100.00	0.00	0.00	6,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,200.00	0.00	0.00	6,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,300.00	0.00	0.00	6,229.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,400.00	0.00	0.00	6,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,500.00	0.00	0.00	6,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,600.00	0.00	0.00	6,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,700.00	0.00	0.00	6,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,800.00	0.00	0.00	6,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
6,900.00	0.00	0.00	6,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,000.00	0.00	0.00	6,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,100.00	0.00	0.00	7,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,200.00	0.00	0.00	7,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,300.00	0.00	0.00	7,229.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,342.96	0.00	0.00	7,272.00	-305.73	656.38	305.73	0.00	0.00	0.00
Brushy Can									
7,400.00	0.00	0.00	7,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,500.00	0.00	0.00	7,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,600.00	0.00	0.00	7,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,700.00	0.00	0.00	7,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,800.00	0.00	0.00	7,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
7,900.00	0.00	0.00	7,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,000.00	0.00	0.00	7,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,100.00	0.00	0.00	8,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,200.00	0.00	0.00	8,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,300.00	0.00	0.00	8,229.04	-305.73	656.38	305.73	0.00	0.00	0.00



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8,400.00	0.00	0.00	8,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,500.00	0.00	0.00	8,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,582.96	0.00	0.00	8,512.00	-305.73	656.38	305.73	0.00	0.00	0.00
Bone Spring									
8,600.00	0.00	0.00	8,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,645.96	0.00	0.00	8,575.00	-305.73	656.38	305.73	0.00	0.00	0.00
Avalon									
8,700.00	0.00	0.00	8,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,800.00	0.00	0.00	8,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
8,900.00	0.00	0.00	8,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,000.00	0.00	0.00	8,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,100.00	0.00	0.00	9,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,200.00	0.00	0.00	9,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,300.00	0.00	0.00	9,229.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,400.00	0.00	0.00	9,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,500.00	0.00	0.00	9,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,585.96	0.00	0.00	9,515.00	-305.73	656.38	305.73	0.00	0.00	0.00
1 BSS									
9,600.00	0.00	0.00	9,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,700.00	0.00	0.00	9,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,800.00	0.00	0.00	9,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
9,900.00	0.00	0.00	9,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,000.00	0.00	0.00	9,929.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,100.00	0.00	0.00	10,029.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,118.96	0.00	0.00	10,048.00	-305.73	656.38	305.73	0.00	0.00	0.00
2BSS									
10,200.00	0.00	0.00	10,129.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,300.00	0.00	0.00	10,229.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,400.00	0.00	0.00	10,329.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,500.00	0.00	0.00	10,429.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,552.96	0.00	0.00	10,482.00	-305.73	656.38	305.73	0.00	0.00	0.00
3BSL									
10,600.00	0.00	0.00	10,529.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,700.00	0.00	0.00	10,629.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,800.00	0.00	0.00	10,729.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,900.00	0.00	0.00	10,829.04	-305.73	656.38	305.73	0.00	0.00	0.00
10,932.00	0.00	0.00	10,861.04	-305.73	656.38	305.73	0.00	0.00	0.00
KOP 10° DLS									
10,950.00	1.80	180.37	10,879.03	-306.01	656.38	306.01	10.00	10.00	0.00
11,000.00	6.80	180.37	10,928.88	-309.76	656.35	309.76	10.00	10.00	0.00
11,013.24	8.12	180.37	10,942.00	-311.48	656.34	311.48	10.00	10.00	0.00
3 BSS									
11,050.00	11.80	180.37	10,978.20	-317.84	656.30	317.84	10.00	10.00	0.00
11,100.00	16.80	180.37	11,026.64	-330.18	656.22	330.18	10.00	10.00	0.00
11,150.00	21.80	180.37	11,073.81	-346.70	656.11	346.70	10.00	10.00	0.00
11,200.00	26.80	180.37	11,119.37	-367.27	655.98	367.27	10.00	10.00	0.00
11,250.00	31.80	180.37	11,162.96	-391.73	655.82	391.73	10.00	10.00	0.00
11,300.00	36.80	180.37	11,204.25	-419.90	655.64	419.90	10.00	10.00	0.00
11,338.13	40.61	180.37	11,234.00	-443.73	655.49	443.73	10.00	10.00	0.00
Wolfcamp									
11,350.00	41.80	180.37	11,242.93	-451.56	655.43	451.56	10.00	10.00	0.00
11,400.00	46.80	180.37	11,278.71	-486.46	655.21	486.46	10.00	10.00	0.00
11,450.00	51.80	180.37	11,311.30	-524.36	654.96	524.36	10.00	10.00	0.00



SB Directional Services

Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 213H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	56.80	180.37	11,340.47	-564.95	654.70	564.95	10.00	10.00	0.00
11,550.00	61.80	180.37	11,365.99	-607.93	654.42	607.93	10.00	10.00	0.00
11,600.00	66.80	180.37	11,387.66	-652.96	654.13	652.96	10.00	10.00	0.00
11,650.00	71.80	180.37	11,405.33	-699.72	653.83	699.72	10.00	10.00	0.00
11,700.00	76.80	180.37	11,418.86	-747.84	653.51	747.84	10.00	10.00	0.00
11,750.00	81.80	180.37	11,428.14	-796.95	653.20	796.95	10.00	10.00	0.00
11,800.00	86.80	180.37	11,433.10	-846.69	652.87	846.69	10.00	10.00	0.00
11,832.00	90.00	180.37	11,434.00	-878.67	652.67	878.67	10.00	10.00	0.00
LP 11832.00' MD & 11434.00' TVD									
11,900.00	90.00	180.37	11,434.00	-946.67	652.23	946.67	0.00	0.00	0.00
12,000.00	90.00	180.37	11,434.00	-1,046.67	651.58	1,046.67	0.00	0.00	0.00
12,100.00	90.00	180.37	11,434.00	-1,146.67	650.93	1,146.67	0.00	0.00	0.00
12,200.00	90.00	180.37	11,434.00	-1,246.66	650.28	1,246.66	0.00	0.00	0.00
12,300.00	90.00	180.37	11,434.00	-1,346.66	649.63	1,346.66	0.00	0.00	0.00
12,400.00	90.00	180.37	11,434.00	-1,446.66	648.99	1,446.66	0.00	0.00	0.00
12,500.00	90.00	180.37	11,434.00	-1,546.66	648.34	1,546.66	0.00	0.00	0.00
12,600.00	90.00	180.37	11,434.00	-1,646.65	647.69	1,646.65	0.00	0.00	0.00
12,700.00	90.00	180.37	11,434.00	-1,746.65	647.04	1,746.65	0.00	0.00	0.00
12,800.00	90.00	180.37	11,434.00	-1,846.65	646.39	1,846.65	0.00	0.00	0.00
12,900.00	90.00	180.37	11,434.00	-1,946.65	645.74	1,946.65	0.00	0.00	0.00
13,000.00	90.00	180.37	11,434.00	-2,046.65	645.10	2,046.65	0.00	0.00	0.00
13,100.00	90.00	180.37	11,434.00	-2,146.64	644.45	2,146.64	0.00	0.00	0.00
13,200.00	90.00	180.37	11,434.00	-2,246.64	643.80	2,246.64	0.00	0.00	0.00
13,300.00	90.00	180.37	11,434.00	-2,346.64	643.15	2,346.64	0.00	0.00	0.00
13,400.00	90.00	180.37	11,434.00	-2,446.64	642.50	2,446.64	0.00	0.00	0.00
13,500.00	90.00	180.37	11,434.00	-2,546.64	641.86	2,546.64	0.00	0.00	0.00
13,600.00	90.00	180.37	11,434.00	-2,646.63	641.21	2,646.63	0.00	0.00	0.00
13,700.00	90.00	180.37	11,434.00	-2,746.63	640.56	2,746.63	0.00	0.00	0.00
13,800.00	90.00	180.37	11,434.00	-2,846.63	639.91	2,846.63	0.00	0.00	0.00
13,900.00	90.00	180.37	11,434.00	-2,946.63	639.26	2,946.63	0.00	0.00	0.00
14,000.00	90.00	180.37	11,434.00	-3,046.63	638.62	3,046.63	0.00	0.00	0.00
14,100.00	90.00	180.37	11,434.00	-3,146.62	637.97	3,146.62	0.00	0.00	0.00
14,200.00	90.00	180.37	11,434.00	-3,246.62	637.32	3,246.62	0.00	0.00	0.00
14,300.00	90.00	180.37	11,434.00	-3,346.62	636.67	3,346.62	0.00	0.00	0.00
14,400.00	90.00	180.37	11,434.00	-3,446.62	636.02	3,446.62	0.00	0.00	0.00
14,500.00	90.00	180.37	11,434.00	-3,546.62	635.38	3,546.62	0.00	0.00	0.00
14,600.00	90.00	180.37	11,434.00	-3,646.61	634.73	3,646.61	0.00	0.00	0.00
14,700.00	90.00	180.37	11,434.00	-3,746.61	634.08	3,746.61	0.00	0.00	0.00
14,800.00	90.00	180.37	11,434.00	-3,846.61	633.43	3,846.61	0.00	0.00	0.00
14,900.00	90.00	180.37	11,434.00	-3,946.61	632.78	3,946.61	0.00	0.00	0.00
15,000.00	90.00	180.37	11,434.00	-4,046.60	632.13	4,046.60	0.00	0.00	0.00
15,100.00	90.00	180.37	11,434.00	-4,146.60	631.49	4,146.60	0.00	0.00	0.00
15,200.00	90.00	180.37	11,434.00	-4,246.60	630.84	4,246.60	0.00	0.00	0.00
15,300.00	90.00	180.37	11,434.00	-4,346.60	630.19	4,346.60	0.00	0.00	0.00
15,400.00	90.00	180.37	11,434.00	-4,446.60	629.54	4,446.60	0.00	0.00	0.00
15,500.00	90.00	180.37	11,434.00	-4,546.59	628.89	4,546.59	0.00	0.00	0.00
15,600.00	90.00	180.37	11,434.00	-4,646.59	628.25	4,646.59	0.00	0.00	0.00
15,700.00	90.00	180.37	11,434.00	-4,746.59	627.60	4,746.59	0.00	0.00	0.00
15,800.00	90.00	180.37	11,434.00	-4,846.59	626.95	4,846.59	0.00	0.00	0.00
15,900.00	90.00	180.37	11,434.00	-4,946.59	626.30	4,946.59	0.00	0.00	0.00
16,000.00	90.00	180.37	11,434.00	-5,046.58	625.65	5,046.58	0.00	0.00	0.00
16,100.00	90.00	180.37	11,434.00	-5,146.58	625.01	5,146.58	0.00	0.00	0.00
16,200.00	90.00	180.37	11,434.00	-5,246.58	624.36	5,246.58	0.00	0.00	0.00



SB Directional Services

Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 213H
Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,300.00	90.00	180.37	11,434.00	-5,346.58	623.71	5,346.58	0.00	0.00	0.00	
16,400.00	90.00	180.37	11,434.00	-5,446.58	623.06	5,446.58	0.00	0.00	0.00	
16,500.00	90.00	180.37	11,434.00	-5,546.57	622.41	5,546.57	0.00	0.00	0.00	
16,600.00	90.00	180.37	11,434.00	-5,646.57	621.77	5,646.57	0.00	0.00	0.00	
16,700.00	90.00	180.37	11,434.00	-5,746.57	621.12	5,746.57	0.00	0.00	0.00	
16,800.00	90.00	180.37	11,434.00	-5,846.57	620.47	5,846.57	0.00	0.00	0.00	
16,900.00	90.00	180.37	11,434.00	-5,946.56	619.82	5,946.56	0.00	0.00	0.00	
17,000.00	90.00	180.37	11,434.00	-6,046.56	619.17	6,046.56	0.00	0.00	0.00	
17,100.00	90.00	180.37	11,434.00	-6,146.56	618.52	6,146.56	0.00	0.00	0.00	
17,200.00	90.00	180.37	11,434.00	-6,246.56	617.88	6,246.56	0.00	0.00	0.00	
17,300.00	90.00	180.37	11,434.00	-6,346.56	617.23	6,346.56	0.00	0.00	0.00	
17,400.00	90.00	180.37	11,434.00	-6,446.55	616.58	6,446.55	0.00	0.00	0.00	
17,500.00	90.00	180.37	11,434.00	-6,546.55	615.93	6,546.55	0.00	0.00	0.00	
17,600.00	90.00	180.37	11,434.00	-6,646.55	615.28	6,646.55	0.00	0.00	0.00	
17,700.00	90.00	180.37	11,434.00	-6,746.55	614.64	6,746.55	0.00	0.00	0.00	
17,800.00	90.00	180.37	11,434.00	-6,846.55	613.99	6,846.55	0.00	0.00	0.00	
17,900.00	90.00	180.37	11,434.00	-6,946.54	613.34	6,946.54	0.00	0.00	0.00	
18,000.00	90.00	180.37	11,434.00	-7,046.54	612.69	7,046.54	0.00	0.00	0.00	
18,100.00	90.00	180.37	11,434.00	-7,146.54	612.04	7,146.54	0.00	0.00	0.00	
18,200.00	90.00	180.37	11,434.00	-7,246.54	611.40	7,246.54	0.00	0.00	0.00	
18,300.00	90.00	180.37	11,434.00	-7,346.54	610.75	7,346.54	0.00	0.00	0.00	
18,400.00	90.00	180.37	11,434.00	-7,446.53	610.10	7,446.53	0.00	0.00	0.00	
18,500.00	90.00	180.37	11,434.00	-7,546.53	609.45	7,546.53	0.00	0.00	0.00	
18,600.00	90.00	180.37	11,434.00	-7,646.53	608.80	7,646.53	0.00	0.00	0.00	
18,700.00	90.00	180.37	11,434.00	-7,746.53	608.16	7,746.53	0.00	0.00	0.00	
18,800.00	90.00	180.37	11,434.00	-7,846.52	607.51	7,846.52	0.00	0.00	0.00	
18,900.00	90.00	180.37	11,434.00	-7,946.52	606.86	7,946.52	0.00	0.00	0.00	
19,000.00	90.00	180.37	11,434.00	-8,046.52	606.21	8,046.52	0.00	0.00	0.00	
19,100.00	90.00	180.37	11,434.00	-8,146.52	605.56	8,146.52	0.00	0.00	0.00	
19,200.00	90.00	180.37	11,434.00	-8,246.52	604.91	8,246.52	0.00	0.00	0.00	
19,300.00	90.00	180.37	11,434.00	-8,346.51	604.27	8,346.51	0.00	0.00	0.00	
19,400.00	90.00	180.37	11,434.00	-8,446.51	603.62	8,446.51	0.00	0.00	0.00	
19,500.00	90.00	180.37	11,434.00	-8,546.51	602.97	8,546.51	0.00	0.00	0.00	
19,609.60	90.00	180.37	11,434.00	-8,656.11	602.26	8,656.11	0.00	0.00	0.00	
PBHL 19609.60' MD & 11434.00' TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP BLUN213	0.00	0.01	10,861.04	-305.73	656.38	486,585.70	757,796.00	32.33498	-103.49869	
- hit/miss target										
- plan hits target center										
- Point										
FTP BLUN213	0.00	0.00	11,434.00	-878.69	652.60	486,012.74	757,792.22	32.33341	-103.49871	
- plan misses target center by 0.07usft at 11832.02usft MD (11434.00 TVD, -878.69 N, 652.67 E)										
- Point										
PBHL BLUN213	0.00	0.00	11,434.00	-8,656.11	602.26	478,235.32	757,741.88	32.31203	-103.49907	
- plan hits target center										
- Point										



SB Directional Services

Planning Report

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Company:	KAISER FRANCIS OIL CO.	TVD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Project:	LEA COUNTY, N.M. 27	MD Reference:	GE+23.5 @ 3474.80usft (Original Well Elev)
Site:	SEC 6-T23S-R34E	North Reference:	Grid
Well:	BELL LAKE UNIT N. 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,152.89	1,152.00	Rustler		0.00	
1,529.20	1,522.00	Salado		0.00	
1,733.67	1,722.00	Top of Salt		0.00	
4,692.69	4,622.00	Base of Salt		0.00	
4,942.96	4,872.00	Lamar		0.00	
5,142.96	5,072.00	Bell Can		0.00	
5,982.96	5,912.00	Cherry Can		0.00	
7,342.96	7,272.00	Brushy Can		0.00	
8,582.96	8,512.00	Bone Spring		0.00	
8,645.96	8,575.00	Avalon		0.00	
9,585.96	9,515.00	1 BSS		0.00	
10,118.96	10,048.00	2BSS		0.00	
10,552.96	10,482.00	3BSL		0.00	
11,013.24	10,942.00	3 BSS		0.00	
11,338.13	11,234.00	Wolfcamp		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	Nudge
1,400.00	1,395.62	-26.43	56.75	Hold 12°
4,180.11	4,114.98	-270.49	580.72	Start Drop
4,980.11	4,909.15	-305.73	656.38	Hold 0°
10,932.00	10,861.04	-305.73	656.38	KOP 10° DLS
11,832.00	11,434.00	-878.67	652.67	LP 11832.00' MD & 11434.00' TVD
19,609.60	11,434.00	-8,656.11	602.26	PBHL 19609.60' MD & 11434.00' TVD

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 242692

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 242692
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/21/2023