

[illegible]

Intent ☐ As Drilled ☒API #
30-025-46625

Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT SOUTH	Well Number 234H
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Kick Off Point (KOP)

UL J	Section 5	Township 24S	Range 34E	Lot	Feet 2200	From N/S SOUTH	Feet 1921	From E/W EAST	County LEA
Latitude 32.2453554					Longitude 103.4896922			NAD 83	

First Take Point (FTP)

UL G	Section 5	Township 24S	Range 34E	Lot	Feet 2528	From N/S NORTH	Feet 1896	From E/W EAST	County LEA
Latitude 32.2469112					Longitude 103.4896173			NAD 83	

Last Take Point (LTP)

UL B	Section 32	Township 23S	Range 34E	Lot	Feet 57	From N/S NORTH	Feet 1893	From E/W EAST	County LEA
Latitude 32.2681868					Longitude 103.4896431			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

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Is this well an infill well?

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

API #

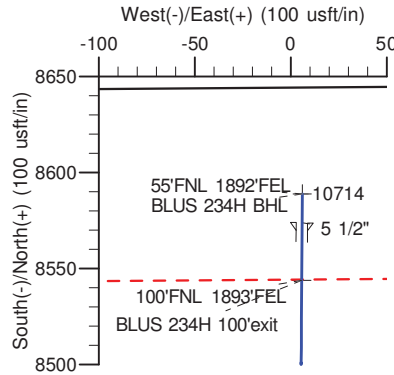
Operator Name:	Property Name:	Well Number
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KZ 06/29/2018



CASING DETAILS

TVD	MD	Name
1318.98	1319.00	13 3/8"
5106.02	5109.00	9 5/8"
10714.83	18720.00	5 1/2"



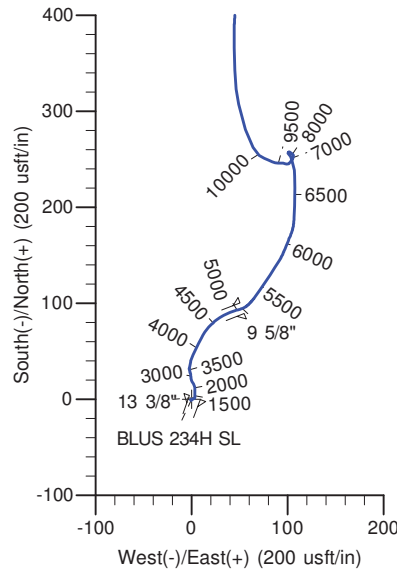
Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.22°

Magnetic Field
Strength: 47654.9snT
Dip Angle: 59.98°
Date: 02/05/2020
Model: IGRF2020

US State Plane 1983
New Mexico Eastern Zone
32° 14' 40.503 N
103° 29' 23.570 W

SECTION CALL DEPTHS

MD	TVD	Annotation
18690.00	10715.99	100'FNL 1893'FEL
18735.00	10714.26	55'FNL 1892'FEL



Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 234H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

Project	Permian NM E'83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	BLUS Pad 15, Centered on 434H final stake 1950'FSL, 1980'FEL S5		
Site Position:		Northing:	453,767.27 usft
From:	Map	Easting:	802,105.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 40.800 N
		Longitude:	103° 29' 23.571 W
		Grid Convergence:	0.45 °

Well	Bell Lake Unit South 234H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	#234H OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	02/05/20	6.67
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,654.92831080

Design	#234H OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.47

Survey Program	Date	03/03/20		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
86.96	1,291.36	Survey #1 (#234H OH)	GYRO-NS	Gyrocompass Gyro
1,341.00	18,670.00	Survey #2 (#234H OH)	MWD	MWD - Standard
18,735.00	18,735.00	Projection (#234H OH)	ZERO-ERROR	Zero Error

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BLUS 234H SL									
86.96	0.14	261.22	86.96	-0.02	-0.10	-0.02	0.16	0.16	0.00
184.12	0.28	237.99	184.12	-0.16	-0.42	-0.16	0.17	0.14	-23.91
274.37	0.28	223.84	274.37	-0.44	-0.76	-0.43	0.08	0.00	-15.68
365.75	0.13	150.30	365.75	-0.69	-0.87	-0.68	0.30	-0.16	-80.48
457.52	0.06	221.25	457.52	-0.81	-0.85	-0.81	0.14	-0.08	77.31
548.25	0.14	88.69	548.25	-0.85	-0.77	-0.84	0.20	0.09	-146.10
639.35	0.22	72.07	639.35	-0.79	-0.49	-0.79	0.10	0.09	-18.24

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Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

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)
731.05	0.33	67.70	731.05	-0.64	-0.08	-0.64	0.12	0.12	-4.77
822.07	0.38	71.54	822.06	-0.44	0.45	-0.45	0.06	0.05	4.22
913.57	0.44	54.66	913.56	-0.14	1.03	-0.15	0.15	0.07	-18.45
1,008.15	0.48	62.16	1,008.14	0.25	1.67	0.24	0.08	0.04	7.93
1,102.67	0.42	56.36	1,102.66	0.63	2.31	0.61	0.08	-0.06	-6.14
1,197.17	0.41	57.30	1,197.15	1.00	2.88	0.98	0.01	-0.01	0.99
1,291.36	0.48	39.79	1,291.34	1.49	3.42	1.46	0.16	0.07	-18.59
1,319.00	0.41	20.24	1,318.98	1.67	3.53	1.64	0.60	-0.25	-70.73
13 3/8"									
1,341.00	0.40	1.60	1,340.98	1.82	3.56	1.79	0.60	-0.05	-84.73
1,435.00	0.80	351.80	1,434.97	2.80	3.47	2.77	0.44	0.43	-10.43
1,530.00	1.00	359.90	1,529.96	4.29	3.38	4.25	0.25	0.21	8.53
1,624.00	0.80	355.30	1,623.95	5.76	3.32	5.73	0.23	-0.21	-4.89
1,719.00	1.00	0.40	1,718.94	7.25	3.27	7.22	0.23	0.21	5.37
1,813.00	1.00	359.50	1,812.92	8.89	3.27	8.86	0.02	0.00	-0.96
1,907.00	1.00	3.10	1,906.91	10.53	3.31	10.50	0.07	0.00	3.83
2,001.00	0.90	348.80	2,000.90	12.07	3.21	12.04	0.27	-0.11	-15.21
2,096.00	0.80	342.50	2,095.89	13.44	2.87	13.41	0.14	-0.11	-6.63
2,191.00	0.80	340.70	2,190.88	14.70	2.45	14.67	0.03	0.00	-1.89
2,286.00	0.80	332.50	2,285.87	15.91	1.92	15.89	0.12	0.00	-8.63
2,380.00	0.60	325.80	2,379.86	16.90	1.34	16.89	0.23	-0.21	-7.13
2,475.00	0.80	326.70	2,474.85	17.86	0.70	17.86	0.21	0.21	0.95
2,569.00	0.80	336.90	2,568.85	19.02	0.08	19.02	0.15	0.00	10.85
2,664.00	0.70	354.30	2,663.84	20.20	-0.24	20.21	0.26	-0.11	18.32
2,758.00	0.80	347.10	2,757.83	21.42	-0.44	21.42	0.15	0.11	-7.66
2,853.00	0.70	350.40	2,852.82	22.63	-0.69	22.64	0.11	-0.11	3.47
2,947.00	0.80	353.20	2,946.81	23.85	-0.86	23.86	0.11	0.11	2.98
3,041.00	0.70	350.20	3,040.80	25.07	-1.03	25.08	0.11	-0.11	-3.19
3,136.00	0.80	355.10	3,135.80	26.30	-1.19	26.31	0.12	0.11	5.16
3,230.00	0.80	346.20	3,229.79	27.59	-1.40	27.60	0.13	0.00	-9.47
3,324.00	0.60	343.00	3,323.78	28.70	-1.70	28.72	0.22	-0.21	-3.40
3,418.00	0.70	343.90	3,417.77	29.72	-2.01	29.74	0.11	0.11	0.96
3,512.00	0.60	344.10	3,511.77	30.75	-2.30	30.77	0.11	-0.11	0.21
3,606.00	0.60	1.60	3,605.76	31.71	-2.42	31.73	0.19	0.00	18.62
3,700.00	2.30	8.50	3,699.73	34.07	-2.13	34.09	1.81	1.81	7.34
3,794.00	4.10	14.30	3,793.58	39.19	-1.02	39.20	1.94	1.91	6.17
3,888.00	4.60	23.80	3,887.31	45.90	1.33	45.88	0.93	0.53	10.11
3,981.00	4.30	26.80	3,980.03	52.42	4.41	52.38	0.41	-0.32	3.23
4,169.00	3.70	27.10	4,167.57	64.11	10.35	64.02	0.32	-0.32	0.16
4,263.00	3.50	32.20	4,261.39	69.24	13.26	69.12	0.40	-0.21	5.43
4,357.00	3.30	39.40	4,355.22	73.76	16.51	73.60	0.50	-0.21	7.66
4,452.00	3.30	46.80	4,450.06	77.75	20.24	77.55	0.45	0.00	7.79
4,546.00	3.20	49.10	4,543.91	81.32	24.19	81.09	0.17	-0.11	2.45

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 234H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

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)
4,641.00	3.10	55.30	4,638.77	84.51	28.31	84.25	0.37	-0.11	6.53
4,735.00	3.30	62.80	4,732.62	87.20	32.80	86.89	0.49	0.21	7.98
4,830.00	3.30	67.00	4,827.47	89.52	37.75	89.16	0.25	0.00	4.42
4,925.00	3.40	70.40	4,922.30	91.53	42.92	91.13	0.23	0.11	3.58
5,019.00	3.20	74.40	5,016.15	93.17	48.07	92.72	0.32	-0.21	4.26
5,060.00	3.10	74.10	5,057.09	93.78	50.24	93.31	0.25	-0.24	-0.73
5,109.00	2.95	68.74	5,106.02	94.60	52.69	94.11	0.65	-0.30	-10.93
9 5/8"									
5,177.00	2.80	60.50	5,173.93	96.05	55.77	95.53	0.65	-0.23	-12.12
5,271.00	4.10	44.50	5,267.76	99.58	60.13	99.02	1.71	1.38	-17.02
5,366.00	5.50	36.80	5,362.43	105.65	65.23	105.04	1.62	1.47	-8.11
5,461.00	6.10	34.30	5,456.94	113.47	70.81	112.81	0.69	0.63	-2.63
5,555.00	5.90	34.30	5,550.43	121.58	76.34	120.87	0.21	-0.21	0.00
5,649.00	5.80	33.30	5,643.94	129.54	81.67	128.78	0.15	-0.11	-1.06
5,743.00	5.60	32.90	5,737.47	137.36	86.77	136.56	0.22	-0.21	-0.43
5,838.00	5.60	31.90	5,832.02	145.19	91.74	144.34	0.10	0.00	-1.05
5,932.00	6.70	21.70	5,925.48	154.18	96.19	153.28	1.65	1.17	-10.85
6,026.00	6.40	22.90	6,018.86	164.10	100.26	163.17	0.35	-0.32	1.28
6,121.00	5.90	20.80	6,113.32	173.54	104.05	172.57	0.58	-0.53	-2.21
6,215.00	6.10	5.70	6,206.81	183.03	106.26	182.04	1.69	0.21	-16.06
6,309.00	6.10	1.80	6,300.28	192.99	106.92	191.99	0.44	0.00	-4.15
6,404.00	5.90	1.60	6,394.76	202.92	107.21	201.92	0.21	-0.21	-0.21
6,498.00	5.70	0.90	6,488.27	212.41	107.42	211.41	0.23	-0.21	-0.74
6,592.00	5.70	359.40	6,581.81	221.75	107.44	220.75	0.16	0.00	-1.60
6,687.00	5.50	0.60	6,676.36	231.02	107.44	230.02	0.24	-0.21	1.26
6,781.00	4.00	354.10	6,770.03	238.79	107.15	237.78	1.69	-1.60	-6.91
6,969.00	2.80	335.50	6,957.70	249.49	104.57	248.51	0.86	-0.64	-9.89
7,064.00	1.70	330.40	7,052.63	252.82	102.92	251.86	1.18	-1.16	-5.37
7,158.00	1.50	313.00	7,146.59	254.88	101.33	253.93	0.56	-0.21	-18.51
7,253.00	0.60	6.70	7,241.58	256.22	100.48	255.28	1.31	-0.95	56.53
7,348.00	0.60	41.40	7,336.57	257.08	100.86	256.14	0.38	0.00	36.53
7,442.00	0.30	50.30	7,430.57	257.61	101.38	256.66	0.33	-0.32	9.47
7,537.00	0.30	102.70	7,525.57	257.72	101.81	256.76	0.28	0.00	55.16
7,632.00	0.40	127.20	7,620.57	257.46	102.32	256.50	0.19	0.11	25.79
7,726.00	0.50	136.50	7,714.56	256.96	102.86	256.00	0.13	0.11	9.89
7,821.00	0.50	130.50	7,809.56	256.39	103.46	255.43	0.06	0.00	-6.32
7,915.00	0.60	110.60	7,903.56	255.95	104.23	254.98	0.23	0.11	-21.17
8,009.00	0.40	121.90	7,997.55	255.61	104.97	254.63	0.24	-0.21	12.02
8,104.00	0.50	141.20	8,092.55	255.11	105.52	254.12	0.19	0.11	20.32
8,198.00	0.60	172.20	8,186.54	254.30	105.84	253.31	0.33	0.11	32.98
8,293.00	0.60	178.50	8,281.54	253.31	105.92	252.32	0.07	0.00	6.63
8,387.00	0.80	194.50	8,375.53	252.19	105.77	251.20	0.30	0.21	17.02
8,482.00	1.00	205.60	8,470.52	250.80	105.24	249.81	0.28	0.21	11.68
8,577.00	1.10	211.40	8,565.51	249.27	104.41	248.29	0.15	0.11	6.11

Titan Directional Drilling

Survey Report

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Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

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)
8,765.00	0.60	224.40	8,753.48	247.03	102.78	246.06	0.28	-0.27	6.91
8,860.00	0.60	230.90	8,848.48	246.36	102.05	245.40	0.07	0.00	6.84
8,954.00	0.80	220.00	8,942.47	245.54	101.24	244.60	0.25	0.21	-11.60
9,143.00	1.00	289.90	9,131.45	245.09	98.85	244.17	0.55	0.11	36.98
9,238.00	1.00	284.50	9,226.44	245.58	97.26	244.67	0.10	0.00	-5.68
9,332.00	1.20	272.70	9,320.42	245.84	95.49	244.94	0.32	0.21	-12.55
9,427.00	1.70	267.30	9,415.39	245.82	93.08	244.94	0.55	0.53	-5.68
9,523.00	1.90	272.50	9,511.34	245.82	90.07	244.97	0.27	0.21	5.42
9,618.00	2.00	288.90	9,606.29	246.42	86.93	245.61	0.59	0.11	17.26
9,712.00	1.80	291.20	9,700.24	247.49	84.00	246.70	0.23	-0.21	2.45
9,806.00	2.80	295.50	9,794.16	249.01	80.55	248.26	1.08	1.06	4.57
9,900.00	3.50	289.70	9,888.02	250.97	75.78	250.26	0.82	0.74	-6.17
9,994.00	4.10	303.80	9,981.81	253.80	70.29	253.14	1.18	0.64	15.00
10,089.00	9.30	331.90	10,076.15	262.47	63.84	261.87	6.32	5.47	29.58
10,183.00	15.60	340.50	10,167.90	281.11	56.04	280.58	6.97	6.70	9.15
10,277.00	18.10	349.30	10,257.88	307.38	49.10	306.91	3.79	2.66	9.36
10,324.00	21.40	352.30	10,302.11	323.05	46.60	322.61	7.34	7.02	6.38
10,372.00	27.00	357.30	10,345.88	342.63	44.91	342.20	12.41	11.67	10.42
10,418.00	33.90	359.50	10,385.51	365.92	44.31	365.49	15.19	15.00	4.78
10,467.00	40.90	2.00	10,424.41	395.65	44.75	395.22	14.62	14.29	5.10
10,513.00	44.10	0.10	10,458.32	426.72	45.30	426.28	7.49	6.96	-4.13
10,561.00	48.80	0.60	10,491.39	461.50	45.52	461.06	9.82	9.79	1.04
10,607.00	53.50	3.10	10,520.24	497.29	46.70	496.83	11.06	10.22	5.43
10,655.00	56.50	3.90	10,547.77	536.53	49.11	536.05	6.40	6.25	1.67
10,701.00	59.10	3.80	10,572.28	575.36	51.72	574.86	5.66	5.65	-0.22
10,750.00	62.10	5.50	10,596.33	617.90	55.19	617.37	6.83	6.12	3.47
10,796.00	67.10	5.90	10,616.05	659.24	59.32	658.66	10.90	10.87	0.87
10,844.00	73.30	6.60	10,632.30	704.11	64.24	703.48	12.99	12.92	1.46
10,890.00	78.30	4.80	10,643.59	748.47	68.66	747.80	11.51	10.87	-3.91
10,962.00	84.90	3.10	10,654.10	819.48	73.55	818.77	9.46	9.17	-2.36
11,056.00	87.00	1.80	10,660.74	913.16	77.56	912.40	2.63	2.23	-1.38
11,150.00	89.60	0.40	10,663.53	1,007.09	79.36	1,006.31	3.14	2.77	-1.49
11,245.00	90.60	359.90	10,663.36	1,102.09	79.61	1,101.30	1.18	1.05	-0.53
11,340.00	91.30	359.90	10,661.79	1,197.07	79.44	1,196.29	0.74	0.74	0.00
11,433.00	90.70	359.50	10,660.16	1,290.06	78.96	1,289.27	0.78	-0.65	-0.43
11,528.00	89.70	359.40	10,659.83	1,385.05	78.05	1,384.27	1.06	-1.05	-0.11
11,622.00	90.20	359.90	10,659.91	1,479.05	77.47	1,478.27	0.75	0.53	0.53
11,717.00	90.70	358.80	10,659.17	1,574.04	76.39	1,573.26	1.27	0.53	-1.16
11,811.00	90.00	359.00	10,658.59	1,668.02	74.59	1,667.26	0.77	-0.74	0.21
11,905.00	90.40	359.40	10,658.26	1,762.01	73.28	1,761.25	0.60	0.43	0.43
12,000.00	88.50	358.50	10,659.18	1,856.98	71.54	1,856.24	2.21	-2.00	-0.95
12,094.00	88.50	358.00	10,661.64	1,950.90	68.67	1,950.19	0.53	0.00	-0.53
12,188.00	89.30	358.10	10,663.44	2,044.83	65.47	2,044.14	0.86	0.85	0.11

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 234H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

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)
12,283.00	88.50	358.70	10,665.27	2,139.78	62.82	2,139.10	1.05	-0.84	0.63
12,377.00	88.90	358.80	10,667.40	2,233.73	60.77	2,233.07	0.44	0.43	0.11
12,471.00	89.80	359.40	10,668.46	2,327.71	59.29	2,327.06	1.15	0.96	0.64
12,566.00	89.30	359.40	10,669.21	2,422.70	58.30	2,422.06	0.53	-0.53	0.00
12,660.00	90.00	359.90	10,669.78	2,516.70	57.72	2,516.06	0.92	0.74	0.53
12,754.00	90.00	359.70	10,669.78	2,610.70	57.39	2,610.05	0.21	0.00	-0.21
12,848.00	89.50	359.50	10,670.19	2,704.69	56.74	2,704.05	0.57	-0.53	-0.21
12,943.00	88.90	359.00	10,671.52	2,799.68	55.49	2,799.04	0.82	-0.63	-0.53
13,038.00	89.70	0.20	10,672.68	2,894.66	54.83	2,894.03	1.52	0.84	1.26
13,132.00	88.80	359.70	10,673.91	2,988.65	54.75	2,988.02	1.10	-0.96	-0.53
13,226.00	88.10	359.70	10,676.45	3,082.62	54.26	3,081.98	0.74	-0.74	0.00
13,321.00	88.00	358.50	10,679.69	3,177.55	52.77	3,176.93	1.27	-0.11	-1.26
13,415.00	88.20	357.60	10,682.80	3,271.44	49.57	3,270.84	0.98	0.21	-0.96
13,509.00	87.50	358.70	10,686.33	3,365.33	46.54	3,364.75	1.39	-0.74	1.17
13,604.00	88.20	358.50	10,689.89	3,460.23	44.22	3,459.67	0.77	0.74	-0.21
13,699.00	89.30	357.80	10,691.97	3,555.16	41.15	3,554.62	1.37	1.16	-0.74
13,793.00	89.30	358.80	10,693.12	3,649.11	38.36	3,648.59	1.06	0.00	1.06
13,888.00	89.10	0.40	10,694.44	3,744.09	37.70	3,743.58	1.70	-0.21	1.68
13,982.00	89.80	0.80	10,695.34	3,838.08	38.68	3,837.56	0.86	0.74	0.43
14,076.00	88.90	0.60	10,696.41	3,932.07	39.83	3,931.53	0.98	-0.96	-0.21
14,170.00	89.30	1.50	10,697.89	4,026.04	41.55	4,025.48	1.05	0.43	0.96
14,265.00	88.90	0.40	10,699.38	4,121.01	43.13	4,120.44	1.23	-0.42	-1.16
14,359.00	89.40	0.40	10,700.77	4,215.00	43.78	4,214.41	0.53	0.53	0.00
14,454.00	89.90	0.90	10,701.35	4,309.99	44.86	4,309.39	0.74	0.53	0.53
14,548.00	90.10	1.10	10,701.35	4,403.98	46.50	4,403.36	0.30	0.21	0.21
14,642.00	90.50	1.10	10,700.86	4,497.96	48.31	4,497.32	0.43	0.43	0.00
14,737.00	90.90	359.90	10,699.70	4,592.94	49.14	4,592.29	1.33	0.42	-1.26
14,831.00	90.10	358.70	10,698.88	4,686.93	47.99	4,686.29	1.53	-0.85	-1.28
14,925.00	89.20	358.30	10,699.46	4,780.90	45.53	4,780.27	1.05	-0.96	-0.43
15,020.00	89.60	358.30	10,700.45	4,875.85	42.71	4,875.25	0.42	0.42	0.00
15,114.00	88.90	357.80	10,701.68	4,969.79	39.51	4,969.21	0.92	-0.74	-0.53
15,209.00	89.30	357.80	10,703.17	5,064.70	35.86	5,064.16	0.42	0.42	0.00
15,304.00	87.50	357.60	10,705.83	5,159.59	32.05	5,159.07	1.91	-1.89	-0.21
15,398.00	87.10	357.40	10,710.25	5,253.39	27.96	5,252.91	0.48	-0.43	-0.21
15,493.00	87.00	356.70	10,715.14	5,348.14	23.08	5,347.70	0.74	-0.11	-0.74
15,587.00	87.90	356.90	10,719.32	5,441.90	17.83	5,441.50	0.98	0.96	0.21
15,682.00	88.50	358.10	10,722.31	5,536.76	13.69	5,536.40	1.41	0.63	1.26
15,776.00	89.30	0.40	10,724.11	5,630.73	12.46	5,630.37	2.59	0.85	2.45
15,871.00	90.00	1.30	10,724.69	5,725.71	13.87	5,725.34	1.20	0.74	0.95
15,965.00	90.30	1.80	10,724.45	5,819.68	16.41	5,819.28	0.62	0.32	0.53
16,060.00	90.90	1.50	10,723.45	5,914.63	19.15	5,914.20	0.71	0.63	-0.32
16,154.00	90.90	0.60	10,721.98	6,008.61	20.87	6,008.16	0.96	0.00	-0.96
16,249.00	90.70	0.60	10,720.65	6,103.59	21.87	6,103.13	0.21	-0.21	0.00
16,343.00	89.50	0.20	10,720.49	6,197.59	22.52	6,197.11	1.35	-1.28	-0.43

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 234H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

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)
16,438.00	89.50	0.40	10,721.31	6,292.58	23.02	6,292.10	0.21	0.00	0.21
16,532.00	89.70	0.80	10,721.97	6,386.57	24.00	6,386.08	0.48	0.21	0.43
16,626.00	90.30	1.60	10,721.97	6,480.55	25.97	6,480.03	1.06	0.64	0.85
16,721.00	91.00	1.30	10,720.89	6,575.51	28.38	6,574.97	0.80	0.74	-0.32
16,815.00	91.20	1.30	10,719.09	6,669.47	30.51	6,668.91	0.21	0.21	0.00
16,910.00	90.80	1.10	10,717.43	6,764.44	32.50	6,763.85	0.47	-0.42	-0.21
17,004.00	90.80	359.50	10,716.12	6,858.42	32.99	6,857.83	1.70	0.00	-1.70
17,098.00	90.40	359.40	10,715.13	6,952.41	32.09	6,951.82	0.44	-0.43	-0.11
17,193.00	90.00	0.10	10,714.80	7,047.41	31.67	7,046.82	0.85	-0.42	0.74
17,287.00	90.00	358.50	10,714.80	7,141.40	30.53	7,140.81	1.70	0.00	-1.70
17,381.00	90.50	358.70	10,714.39	7,235.37	28.23	7,234.80	0.57	0.53	0.21
17,476.00	90.20	358.50	10,713.81	7,330.34	25.91	7,329.79	0.38	-0.32	-0.21
17,570.00	91.20	359.20	10,712.66	7,424.31	24.02	7,423.78	1.30	1.06	0.74
17,664.00	89.70	358.80	10,711.93	7,518.29	22.38	7,517.77	1.65	-1.60	-0.43
17,759.00	88.70	358.30	10,713.25	7,613.25	19.98	7,612.74	1.18	-1.05	-0.53
17,853.00	89.50	359.20	10,714.73	7,707.22	17.93	7,706.72	1.28	0.85	0.96
17,948.00	88.40	358.70	10,716.47	7,802.18	16.19	7,801.70	1.27	-1.16	-0.53
18,042.00	89.20	358.80	10,718.44	7,896.14	14.14	7,895.67	0.86	0.85	0.11
18,137.00	90.40	359.70	10,718.77	7,991.13	12.89	7,990.67	1.58	1.26	0.95
18,232.00	90.20	359.70	10,718.27	8,086.13	12.40	8,085.67	0.21	-0.21	0.00
18,326.00	88.60	358.30	10,719.26	8,180.10	10.76	8,179.65	2.26	-1.70	-1.49
18,420.00	89.80	358.80	10,720.57	8,274.06	8.38	8,273.63	1.38	1.28	0.53
18,514.00	90.30	358.80	10,720.49	8,368.04	6.41	8,367.62	0.53	0.53	0.00
18,609.00	91.70	359.90	10,718.83	8,463.01	5.33	8,462.60	1.87	1.47	1.16
18,670.00	92.20	0.40	10,716.75	8,523.98	5.49	8,523.56	1.16	0.82	0.82
18,690.00	92.20	0.40	10,715.99	8,543.96	5.63	8,543.55	0.00	0.00	0.00
100'FNL 1893'FEL - BLUS 234H 100'exit									
18,720.00	92.20	0.40	10,714.83	8,573.94	5.84	8,573.52	0.00	0.00	0.00
5 1/2"									
18,735.00	92.20	0.40	10,714.26	8,588.93	5.94	8,588.51	0.00	0.00	0.00
55'FNL 1892'FEL - BLUS 234H BHL									

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 234H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Site:	BLUS Pad 15	MD Reference:	GL+KB @ 3614.00usft (Latshaw 45)
Well:	Bell Lake Unit South 234H	North Reference:	Grid
Wellbore:	#234H OH	Survey Calculation Method:	Minimum Curvature
Design:	#234H OH	Database:	EDM 5k-14

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLUS 234H SL - actual wellpath hits target center - Point	0.00	0.01	0.00	0.00	0.00	453,737.24	802,105.45	32° 14' 40.503 N	103° 29' 23.570 W
BLUS 234H BHL - actual wellpath hits target center - Point	0.00	0.00	10,714.2 6	8,588.93	5.94	462,326.06	802,111.39	32° 16' 5.488 N	103° 29' 22.715 W
BLUS 234H 100'exit - actual wellpath hits target center - Point	0.00	0.00	10,715.9 9	8,543.96	5.63	462,281.10	802,111.08	32° 16' 5.043 N	103° 29' 22.722 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,319.00	1,318.98	13 3/8"		13-3/8	17-1/2
5,109.00	5,106.02	9 5/8"		9-5/8	12-1/4
18,720.00	10,714.83	5 1/2"		5-1/2	8-1/2

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
18,690.00	10,715.99	8,543.96	5.63	100'FNL 1893'FEL	
18,735.00	10,714.26	8,588.93	5.94	55'FNL 1892'FEL	