

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
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46629	² Pool Code 98266	³ Pool Name Bell Lake; Wolfcamp, South
⁴ Property Code 316706	⁵ Property Name BELL LAKE UNIT SOUTH	⁶ Well Number 436H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3575.5

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
I	5	24 S	34 E	I	1950	SOUTH	362	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
H	32	23 S	34 E	H	1620	NORTH	406	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 32 LAT. = 32.2683519°N LONG. = 103.5005984°W NMSP EAST (FT) N = 462358.10 E = 798724.66 W/4 CORNER SEC. 32 LAT. = 32.2610941°N LONG. = 103.5005861°W NMSP EAST (FT) N = 459717.74 E = 798748.94 AS-DRILLED KOP 2029' FSL, 393' FEL LAT. = 32.2449044°N LONG. = 103.4847489°W NMSP EAST (FT) N = 453866.26 E = 803691.11 NW CORNER SEC. 5 LAT. = 32.2538360°N LONG. = 103.5005765°W NMSP EAST (FT) N = 457077.27 E = 798772.36 W/4 CORNER SEC. 5 LAT. = 32.2468023°N LONG. = 103.5005464°W NMSP EAST (FT) N = 454445.73 E = 798802.12 SW CORNER SEC. 5 LAT. = 32.2393444°N LONG. = 103.5005242°W NMSP EAST (FT) N = 451805.34 E = 798829.47		N/4 CORNER SEC. 32 LAT. = 32.2683440°N LONG. = 103.4920425°W NMSP EAST (FT) N = 462375.86 E = 801369.28 AS-DRILLED BOTTOM OF HOLE LAT. = 32.2638911°N LONG. = 103.4848280°W NMSP EAST (FT) N = 460773.43 E = 803612.06 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83. N/4 CORNER SEC. 5 LAT. = 32.2538352°N LONG. = 103.4920367°W NMSP EAST (FT) N = 457097.54 E = 801412.43 S/4 CORNER SEC. 5 LAT. = 32.2392987°N LONG. = 103.4919593°W NMSP EAST (FT) N = 451809.38 E = 801477.80		NE CORNER SEC. 32 LAT. = 32.2683416°N LONG. = 103.4835217°W NMSP EAST (FT) N = 462395.74 E = 804003.04 E/4 CORNER SEC. 32 LAT. = 32.2610849°N LONG. = 103.4835095°W NMSP EAST (FT) N = 459755.76 E = 804027.70 AS-DRILLED FIRST TAKE POINT 2532' FNL, 386' FEL LAT. = 32.2469511°N LONG. = 103.4847353°W NMSP EAST (FT) N = 454610.89 E = 803689.44 NE CORNER SEC. 5 LAT. = 32.2539207°N LONG. = 103.4835560°W NMSP EAST (FT) N = 457149.32 E = 804033.96 E/4 CORNER SEC. 5 LAT. = 32.2465905°N LONG. = 103.4834825°W NMSP EAST (FT) N = 454482.78 E = 804077.79 SE CORNER SEC. 5 LAT. = 32.2393344°N LONG. = 103.4834649°W NMSP EAST (FT) N = 451843.03 E = 804104.13	
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S89°54'46"W 2648.86 FT

S89°15'57"W 2627.07 FT

1620'

1950'

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.

11/16/2020

Signature: *Charlotte Van Valkenburg* Date: _____

Printed Name: Charlotte Van Valkenburg

E-mail Address: Charlotv@kfoc.net

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.

FEBRUARY 13, 2020

Date of Survey: _____

Signature and Seal of Professional Surveyor: *William F. Jaramila*

Certificate Number: F140015-2000000, PLS 12797

Surveyor License No. 7763B

Intent ☐ As Drilled ☒

HOBBS OCD
RECEIVED 11/19/20

API # 30-025-46629		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT SOUTH	Well Number 436H

Kick Off Point (KOP)

UL I	Section 5	Township 24S	Range 34E	Lot	Feet 2029	From N/S SOUTH	Feet 393	From E/W EAST	County LEA
Latitude 32.2449044					Longitude 103.4847489			NAD 83	

First Take Point (FTP)

UL H	Section 5	Township 24S	Range 34E	Lot	Feet 2532	From N/S NORTH	Feet 386	From E/W EAST	County LEA
Latitude 32.2469511					Longitude 103.4847353			NAD 83	

Last Take Point (LTP)

UL H	Section 32	Township 23S	Range 34E	Lot	Feet 1620	From N/S NORTH	Feet 406	From E/W EAST	County LEA
Latitude 32.2638911					Longitude 103.4848280			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 # 30-025-46628		
Operator Name: Kaiser-Francis Oil Company	Property Name: Bell Lake Unit South	Well Number 434H

KZ 06/29/2018

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 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 17, Centered on Feb.25 adj. 236H		
Site Position:		Northing:	453,758.04 usft
From:	Map	Easting:	803,723.07 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 40.582 N
		Longitude:	103° 29' 4.734 W
		Grid Convergence:	0.45 °

Well	Bell Lake Unit South 436H		
Well Position	+N/-S	0.00 usft	Northing: 453,788.04 usft
	+E/-W	0.00 usft	Easting: 803,722.77 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 14' 40.879 N
		Longitude:	103° 29' 4.735 W
		Ground Level:	3,575.50 usft

Wellbore	#436 OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	04/10/20	6.64	59.97	47,637.02772899

Design	#436 OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.47	

Survey Program	Date	05/21/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
143.36	1,305.00	Survey #1 (#436 OH)	GYRO-NS	Gyrocompass Gyro	
1,420.00	18,399.00	Survey #2 (#436 OH)	MWD	MWD - Standard	

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	
BLUS 436H SL										
143.36	0.52	272.22	143.36	0.03	-0.65	0.03	0.36	0.36	0.00	
237.53	0.40	312.84	237.53	0.27	-1.32	0.28	0.36	-0.13	43.13	
331.70	0.33	323.20	331.69	0.71	-1.72	0.72	0.10	-0.07	11.00	
425.87	0.68	348.89	425.86	1.47	-1.99	1.49	0.43	0.37	27.28	
520.04	0.89	1.04	520.02	2.75	-2.09	2.77	0.28	0.22	12.90	
614.21	0.87	40.85	614.18	4.02	-1.61	4.04	0.64	-0.02	42.27	
708.38	0.68	31.83	708.34	5.04	-0.84	5.05	0.24	-0.20	-9.58	
802.55	0.62	46.29	802.51	5.87	-0.18	5.87	0.18	-0.06	15.36	

Titan Directional Drilling

Survey Report

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Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 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)
896.72	0.28	354.24	896.67	6.45	0.17	6.44	0.53	-0.36	-55.27
990.89	0.50	338.82	990.84	7.06	-0.01	7.06	0.26	0.23	-16.37
1,085.06	0.55	310.24	1,085.01	7.73	-0.50	7.74	0.28	0.05	-30.35
1,179.23	0.52	273.47	1,179.17	8.05	-1.27	8.06	0.36	-0.03	-39.05
1,305.00	0.88	315.93	1,304.93	8.78	-2.51	8.80	0.48	0.29	33.76
1,343.00	0.93	305.37	1,342.93	9.17	-2.97	9.19	0.45	0.12	-27.78
13 3/8"									
1,420.00	1.10	288.10	1,419.92	9.76	-4.18	9.80	0.45	0.23	-22.43
1,514.00	0.80	34.80	1,513.91	10.58	-4.66	10.62	1.63	-0.32	113.51
1,609.00	1.40	67.70	1,608.89	11.56	-3.21	11.59	0.89	0.63	34.63
1,703.00	1.30	76.20	1,702.87	12.25	-1.11	12.26	0.24	-0.11	9.04
1,797.00	1.30	63.10	1,796.84	12.99	0.88	12.98	0.32	0.00	-13.94
1,892.00	1.20	70.00	1,891.82	13.82	2.77	13.79	0.19	-0.11	7.26
1,987.00	1.00	50.80	1,986.80	14.68	4.35	14.64	0.44	-0.21	-20.21
2,081.00	0.80	45.40	2,080.79	15.66	5.45	15.61	0.23	-0.21	-5.74
2,175.00	0.80	58.20	2,174.78	16.47	6.48	16.41	0.19	0.00	13.62
2,269.00	1.10	25.00	2,268.77	17.63	7.42	17.56	0.65	0.32	-35.32
2,364.00	1.50	12.30	2,363.75	19.67	8.07	19.60	0.52	0.42	-13.37
2,458.00	1.10	8.50	2,457.72	21.77	8.46	21.69	0.44	-0.43	-4.04
2,552.00	1.20	12.50	2,551.70	23.62	8.81	23.54	0.14	0.11	4.26
2,647.00	1.10	7.40	2,646.68	25.49	9.14	25.41	0.15	-0.11	-5.37
2,741.00	1.40	358.30	2,740.66	27.54	9.22	27.45	0.38	0.32	-9.68
2,836.00	1.60	9.90	2,835.63	30.00	9.42	29.92	0.38	0.21	12.21
2,930.00	1.60	13.20	2,929.59	32.57	9.94	32.48	0.10	0.00	3.51
3,024.00	1.70	3.20	3,023.55	35.24	10.32	35.15	0.32	0.11	-10.64
3,118.00	1.80	10.10	3,117.51	38.09	10.66	37.99	0.25	0.11	7.34
3,212.00	1.80	21.80	3,211.46	40.91	11.46	40.81	0.39	0.00	12.45
3,305.00	1.90	16.70	3,304.42	43.75	12.45	43.63	0.21	0.11	-5.48
3,399.00	2.00	25.00	3,398.36	46.73	13.59	46.60	0.32	0.11	8.83
3,493.00	1.80	22.90	3,492.31	49.57	14.86	49.43	0.23	-0.21	-2.23
3,588.00	1.60	22.20	3,587.27	52.17	15.94	52.02	0.21	-0.21	-0.74
3,682.00	1.20	41.20	3,681.24	54.13	17.08	53.97	0.65	-0.43	20.21
3,777.00	1.10	30.60	3,776.22	55.66	18.20	55.49	0.25	-0.11	-11.16
3,871.00	1.10	39.80	3,870.20	57.13	19.24	56.95	0.19	0.00	9.79
3,965.00	1.00	33.60	3,964.19	58.51	20.27	58.32	0.16	-0.11	-6.60
4,060.00	0.70	5.80	4,059.18	59.78	20.79	59.58	0.53	-0.32	-29.26
4,154.00	0.80	14.50	4,153.17	60.98	21.01	60.79	0.16	0.11	9.26
4,248.00	0.90	81.10	4,247.16	61.73	21.91	61.53	1.00	0.11	70.85
4,342.00	1.60	106.20	4,341.14	61.48	23.90	61.26	0.93	0.74	26.70
4,436.00	1.80	102.20	4,435.10	60.80	26.60	60.55	0.25	0.21	-4.26
4,531.00	1.80	96.70	4,530.05	60.31	29.54	60.04	0.18	0.00	-5.79
4,625.00	2.60	101.30	4,623.98	59.72	33.10	59.42	0.87	0.85	4.89
4,719.00	2.80	93.90	4,717.88	59.15	37.48	58.80	0.43	0.21	-7.87

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 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)
4,814.00	3.30	97.10	4,812.74	58.65	42.51	58.26	0.56	0.53	3.37
4,908.00	3.80	91.80	4,906.56	58.22	48.30	57.77	0.64	0.53	-5.64
5,003.00	3.30	91.60	5,001.38	58.05	54.18	57.54	0.53	-0.53	-0.21
5,065.00	3.10	90.70	5,063.28	57.98	57.64	57.44	0.33	-0.32	-1.45
5,129.00	2.83	93.13	5,127.20	57.87	60.95	57.30	0.46	-0.42	3.79
10 3/4"									
5,186.00	2.60	95.70	5,184.13	57.66	63.65	57.07	0.46	-0.41	4.52
5,280.00	1.40	94.80	5,278.07	57.36	66.91	56.73	1.28	-1.28	-0.96
5,375.00	0.60	298.20	5,373.07	57.49	67.63	56.87	2.07	-0.84	-164.84
5,469.00	2.10	289.00	5,467.04	58.29	65.57	57.68	1.61	1.60	-9.79
5,564.00	2.20	286.60	5,561.97	59.38	62.17	58.80	0.14	0.11	-2.53
5,658.00	2.30	284.10	5,655.90	60.35	58.62	59.81	0.15	0.11	-2.66
5,752.00	2.30	285.90	5,749.82	61.33	54.97	60.82	0.08	0.00	1.91
5,847.00	2.20	285.90	5,844.75	62.35	51.39	61.87	0.11	-0.11	0.00
5,941.00	2.10	283.20	5,938.68	63.24	47.97	62.79	0.15	-0.11	-2.87
6,035.00	1.90	281.30	6,032.63	63.93	44.77	63.52	0.22	-0.21	-2.02
6,130.00	1.70	278.10	6,127.58	64.44	41.83	64.05	0.24	-0.21	-3.37
6,224.00	1.70	286.40	6,221.54	65.03	39.11	64.67	0.26	0.00	8.83
6,318.00	1.60	286.40	6,315.50	65.80	36.52	65.46	0.11	-0.11	0.00
6,413.00	1.60	285.50	6,410.46	66.52	33.96	66.21	0.03	0.00	-0.95
6,507.00	1.40	287.30	6,504.43	67.22	31.60	66.92	0.22	-0.21	1.91
6,601.00	1.50	285.70	6,598.40	67.89	29.32	67.62	0.11	0.11	-1.70
6,695.00	1.50	283.40	6,692.37	68.51	26.94	68.26	0.06	0.00	-2.45
6,790.00	1.50	282.50	6,787.33	69.07	24.52	68.84	0.02	0.00	-0.95
6,884.00	1.30	283.00	6,881.31	69.57	22.28	69.36	0.21	-0.21	0.53
6,979.00	1.20	282.70	6,976.28	70.03	20.26	69.84	0.11	-0.11	-0.32
7,073.00	1.60	316.10	7,070.26	71.20	18.39	71.02	0.95	0.43	35.53
7,167.00	1.10	308.20	7,164.23	72.70	16.77	72.54	0.57	-0.53	-8.40
7,262.00	1.10	309.60	7,259.21	73.84	15.35	73.70	0.03	0.00	1.47
7,356.00	2.10	311.90	7,353.17	75.57	13.37	75.44	1.07	1.06	2.45
7,451.00	2.00	305.50	7,448.11	77.70	10.73	77.59	0.26	-0.11	-6.74
7,545.00	1.90	301.00	7,542.06	79.45	8.06	79.37	0.19	-0.11	-4.79
7,640.00	1.80	293.40	7,637.01	80.85	5.34	80.80	0.28	-0.11	-8.00
7,734.00	1.90	292.40	7,730.96	82.03	2.54	82.01	0.11	0.11	-1.06
7,828.00	0.80	338.40	7,824.94	83.24	0.86	83.23	1.56	-1.17	48.94
7,922.00	0.50	322.10	7,918.93	84.17	0.37	84.16	0.37	-0.32	-17.34
8,017.00	0.50	277.80	8,013.93	84.56	-0.30	84.55	0.40	0.00	-46.63
8,111.00	0.60	252.60	8,107.92	84.46	-1.18	84.47	0.28	0.11	-26.81
8,206.00	0.60	241.90	8,202.92	84.08	-2.09	84.10	0.12	0.00	-11.26
8,301.00	0.60	218.50	8,297.91	83.46	-2.84	83.48	0.26	0.00	-24.63
8,394.00	0.60	214.70	8,390.91	82.68	-3.42	82.70	0.04	0.00	-4.09
8,489.00	0.50	213.60	8,485.90	81.92	-3.93	81.95	0.11	-0.11	-1.16
8,583.00	0.60	217.70	8,579.90	81.19	-4.46	81.23	0.11	0.11	4.36
8,678.00	0.40	186.20	8,674.90	80.47	-4.80	80.51	0.35	-0.21	-33.16

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
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Well:	Bell Lake Unit South 436H	North Reference:	Grid
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Design:	#436 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)
8,772.00	0.30	118.50	8,768.89	80.02	-4.62	80.06	0.42	-0.11	-72.02
8,867.00	0.40	152.60	8,863.89	79.61	-4.25	79.65	0.24	0.11	35.89
8,961.00	0.40	138.60	8,957.89	79.07	-3.88	79.11	0.10	0.00	-14.89
9,056.00	0.40	96.40	9,052.89	78.79	-3.33	78.81	0.30	0.00	-44.42
9,150.00	0.40	31.20	9,146.89	79.03	-2.83	79.05	0.46	0.00	-69.36
9,245.00	0.10	173.90	9,241.89	79.23	-2.65	79.25	0.51	-0.32	150.21
9,339.00	0.90	268.10	9,335.88	79.13	-3.38	79.15	0.97	0.85	100.21
9,434.00	1.10	267.90	9,430.87	79.07	-5.04	79.11	0.21	0.21	-0.21
9,528.00	1.30	268.10	9,524.85	79.00	-7.01	79.06	0.21	0.21	0.21
9,623.00	1.30	264.20	9,619.82	78.86	-9.16	78.94	0.09	0.00	-4.11
9,717.00	1.80	267.00	9,713.79	78.67	-11.69	78.78	0.54	0.53	2.98
9,811.00	1.70	257.70	9,807.74	78.30	-14.53	78.43	0.32	-0.11	-9.89
9,906.00	1.40	242.40	9,902.71	77.46	-16.93	77.61	0.54	-0.32	-16.11
10,000.00	1.40	229.40	9,996.68	76.18	-18.82	76.35	0.34	0.00	-13.83
10,095.00	1.40	236.60	10,091.65	74.78	-20.67	74.97	0.19	0.00	7.58
10,189.00	1.40	210.40	10,185.63	73.16	-22.21	73.36	0.68	0.00	-27.87
10,284.00	1.70	204.30	10,280.59	70.88	-23.38	71.09	0.36	0.32	-6.42
10,378.00	1.80	221.90	10,374.55	68.51	-24.94	68.73	0.58	0.11	18.72
10,473.00	1.50	243.00	10,469.51	66.83	-27.04	67.08	0.71	-0.32	22.21
10,568.00	1.10	262.30	10,564.48	66.15	-29.06	66.41	0.62	-0.42	20.32
10,662.00	0.90	267.00	10,658.47	65.99	-30.69	66.27	0.23	-0.21	5.00
10,756.00	0.90	264.20	10,752.46	65.87	-32.16	66.17	0.05	0.00	-2.98
10,851.00	0.30	229.10	10,847.45	65.63	-33.09	65.94	0.71	-0.63	-36.95
10,909.00	0.40	135.70	10,905.45	65.39	-33.06	65.69	0.89	0.17	-161.03
10,949.00	0.69	131.76	10,945.45	65.13	-32.78	65.43	0.74	0.73	-9.86
7 5/8"									
10,991.00	1.00	130.10	10,987.45	64.72	-32.31	65.02	0.74	0.73	-3.94
11,038.00	2.60	10.40	11,034.43	65.51	-31.81	65.80	6.84	3.40	-254.68
11,086.00	7.80	3.70	11,082.22	69.83	-31.40	70.12	10.89	10.83	-13.96
11,133.00	12.90	354.80	11,128.44	78.25	-31.67	78.54	11.34	10.85	-18.94
11,181.00	16.00	351.60	11,174.92	90.13	-33.12	90.43	6.67	6.46	-6.67
11,228.00	16.50	353.90	11,220.04	103.17	-34.78	103.49	1.73	1.06	4.89
11,276.00	15.20	0.40	11,266.22	116.25	-35.46	116.57	4.58	-2.71	13.54
11,323.00	13.50	351.80	11,311.75	127.84	-36.20	128.17	5.79	-3.62	-18.30
11,371.00	16.40	354.10	11,358.12	140.13	-37.70	140.47	6.17	6.04	4.79
11,418.00	21.70	354.90	11,402.54	155.39	-39.15	155.75	11.29	11.28	1.70
11,466.00	24.10	355.50	11,446.75	174.01	-40.71	174.37	5.02	5.00	1.25
11,513.00	30.20	359.30	11,488.55	195.41	-41.61	195.79	13.49	12.98	8.09
11,561.00	36.30	1.30	11,528.68	221.72	-41.43	222.09	12.91	12.71	4.17
11,595.00	40.40	2.90	11,555.34	242.79	-40.65	243.16	12.41	12.06	4.71
11,633.00	42.70	5.10	11,583.77	267.93	-38.88	268.28	7.17	6.05	5.79
11,680.00	47.10	2.30	11,617.06	301.02	-36.77	301.35	10.26	9.36	-5.96
11,728.00	54.30	359.50	11,647.45	338.13	-36.23	338.45	15.66	15.00	-5.83

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 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)
11,775.00	62.90	359.20	11,671.91	378.21	-36.69	378.53	18.31	18.30	-0.64
11,823.00	73.40	0.40	11,689.75	422.70	-36.83	423.02	22.00	21.88	2.50
11,870.00	81.90	1.60	11,699.80	468.56	-36.02	468.87	18.26	18.09	2.55
11,918.00	89.30	1.80	11,703.48	516.36	-34.60	516.66	15.42	15.42	0.42
11,940.00	89.80	1.30	11,703.65	538.35	-34.01	538.64	3.21	2.27	-2.27
12,035.00	91.50	0.20	11,702.57	633.33	-32.76	633.61	2.13	1.79	-1.16
12,130.00	92.90	359.90	11,698.92	728.26	-32.68	728.53	1.51	1.47	-0.32
12,225.00	95.00	359.30	11,692.38	823.03	-33.34	823.30	2.30	2.21	-0.63
12,320.00	96.00	359.30	11,683.27	917.58	-34.50	917.86	1.05	1.05	0.00
12,416.00	97.20	0.40	11,672.24	1,012.94	-34.75	1,013.22	1.69	1.25	1.15
12,510.00	97.20	359.90	11,660.46	1,106.20	-34.50	1,106.47	0.53	0.00	-0.53
12,605.00	95.60	357.80	11,649.87	1,200.58	-36.40	1,200.87	2.77	-1.68	-2.21
12,701.00	92.60	356.50	11,643.01	1,296.20	-41.16	1,296.53	3.40	-3.13	-1.35
12,796.00	87.90	355.80	11,642.59	1,390.96	-47.54	1,391.34	5.00	-4.95	-0.74
12,891.00	86.90	357.00	11,646.90	1,485.67	-53.50	1,486.10	1.64	-1.05	1.26
12,985.00	90.30	358.30	11,649.20	1,579.55	-57.35	1,580.01	3.87	3.62	1.38
13,080.00	93.40	359.70	11,646.13	1,674.47	-59.01	1,674.95	3.58	3.26	1.47
13,175.00	93.20	359.20	11,640.66	1,769.31	-59.92	1,769.79	0.57	-0.21	-0.53
13,271.00	86.80	357.00	11,640.66	1,865.20	-63.10	1,865.71	7.05	-6.67	-2.29
13,366.00	84.50	355.80	11,647.87	1,959.73	-69.05	1,960.29	2.73	-2.42	-1.26
13,461.00	89.50	357.80	11,652.84	2,054.42	-74.34	2,055.02	5.67	5.26	2.11
13,555.00	87.90	356.30	11,654.97	2,148.27	-79.17	2,148.91	2.33	-1.70	-1.60
13,651.00	88.50	356.20	11,657.99	2,244.01	-85.45	2,244.71	0.63	0.63	-0.10
13,745.00	89.60	356.20	11,659.54	2,337.79	-91.68	2,338.54	1.17	1.17	0.00
13,840.00	87.80	358.30	11,661.70	2,432.65	-96.23	2,433.43	2.91	-1.89	2.21
13,935.00	88.10	359.20	11,665.10	2,527.56	-98.30	2,528.37	1.00	0.32	0.95
14,030.00	92.20	1.40	11,664.85	2,622.54	-97.81	2,623.33	4.90	4.32	2.32
14,125.00	96.70	3.40	11,657.48	2,717.14	-93.85	2,717.89	5.18	4.74	2.11
14,220.00	96.20	1.80	11,646.81	2,811.44	-89.57	2,812.14	1.75	-0.53	-1.68
14,315.00	94.50	359.90	11,637.95	2,906.00	-88.16	2,906.70	2.68	-1.79	-2.00
14,410.00	89.20	356.70	11,634.88	3,000.87	-90.98	3,001.58	6.52	-5.58	-3.37
14,506.00	90.20	357.00	11,635.39	3,096.72	-96.26	3,097.48	1.09	1.04	0.31
14,601.00	90.40	359.30	11,634.89	3,191.66	-99.33	3,192.44	2.43	0.21	2.42
14,696.00	90.10	0.40	11,634.47	3,286.66	-99.57	3,287.44	1.20	-0.32	1.16
14,793.00	89.30	1.40	11,634.98	3,383.64	-98.05	3,384.41	1.32	-0.82	1.03
14,888.00	83.80	359.00	11,640.70	3,478.43	-97.71	3,479.18	6.31	-5.79	-2.53
14,983.00	86.70	0.40	11,648.56	3,573.09	-98.21	3,573.84	3.39	3.05	1.47
15,079.00	86.70	0.20	11,654.09	3,668.93	-97.71	3,669.67	0.21	0.00	-0.21
15,174.00	86.80	0.70	11,659.48	3,763.77	-96.96	3,764.51	0.54	0.11	0.53
15,269.00	87.20	0.00	11,664.45	3,858.64	-96.38	3,859.36	0.85	0.42	-0.74
15,364.00	87.00	359.90	11,669.25	3,953.52	-96.46	3,954.24	0.24	-0.21	-0.11
15,459.00	87.90	0.90	11,673.48	4,048.42	-95.80	4,049.13	1.42	0.95	1.05
15,554.00	89.10	1.10	11,675.97	4,143.37	-94.14	4,144.06	1.28	1.26	0.21
15,648.00	88.60	0.70	11,677.85	4,237.34	-92.67	4,238.01	0.68	-0.53	-0.43

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 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)
15,743.00	88.10	0.90	11,680.59	4,332.29	-91.34	4,332.95	0.57	-0.53	0.21
15,838.00	88.00	1.30	11,683.82	4,427.22	-89.52	4,427.85	0.43	-0.11	0.42
15,933.00	87.10	1.40	11,687.88	4,522.10	-87.28	4,522.72	0.95	-0.95	0.11
16,028.00	88.50	1.10	11,691.53	4,617.01	-85.21	4,617.60	1.51	1.47	-0.32
16,124.00	87.80	0.90	11,694.63	4,712.94	-83.54	4,713.51	0.76	-0.73	-0.21
16,219.00	87.40	0.60	11,698.61	4,807.85	-82.30	4,808.41	0.53	-0.42	-0.32
16,313.00	84.40	0.40	11,705.33	4,901.59	-81.48	4,902.14	3.20	-3.19	-0.21
16,408.00	87.60	359.90	11,711.95	4,996.35	-81.23	4,996.89	3.41	3.37	-0.53
16,503.00	89.40	359.20	11,714.44	5,091.31	-81.98	5,091.85	2.03	1.89	-0.74
16,598.00	88.50	358.80	11,716.18	5,186.28	-83.63	5,186.83	1.04	-0.95	-0.42
16,693.00	89.70	359.30	11,717.67	5,281.25	-85.21	5,281.81	1.37	1.26	0.53
16,788.00	89.70	359.20	11,718.17	5,376.24	-86.45	5,376.81	0.11	0.00	-0.11
16,883.00	90.00	358.80	11,718.42	5,471.23	-88.11	5,471.81	0.53	0.32	-0.42
16,978.00	89.90	358.10	11,718.50	5,566.19	-90.68	5,566.79	0.74	-0.11	-0.74
17,073.00	89.70	358.10	11,718.83	5,661.14	-93.83	5,661.76	0.21	-0.21	0.00
17,168.00	90.50	357.80	11,718.67	5,756.08	-97.23	5,756.73	0.90	0.84	-0.32
17,263.00	88.80	358.50	11,719.25	5,851.02	-100.29	5,851.70	1.94	-1.79	0.74
17,358.00	88.60	358.60	11,721.40	5,945.97	-102.70	5,946.66	0.24	-0.21	0.11
17,453.00	88.30	358.30	11,723.97	6,040.90	-105.27	6,041.61	0.45	-0.32	-0.32
17,547.00	89.80	358.60	11,725.53	6,134.85	-107.81	6,135.58	1.63	1.60	0.32
17,642.00	89.30	359.50	11,726.28	6,229.83	-109.38	6,230.58	1.08	-0.53	0.95
17,737.00	90.70	0.60	11,726.28	6,324.83	-109.30	6,325.57	1.87	1.47	1.16
17,832.00	89.90	0.20	11,725.78	6,419.82	-108.64	6,420.55	0.94	-0.84	-0.42
17,925.00	90.20	0.60	11,725.70	6,512.82	-107.99	6,513.54	0.54	0.32	0.43
18,019.00	89.30	359.70	11,726.11	6,606.82	-107.74	6,607.53	1.35	-0.96	-0.96
18,114.00	89.90	359.50	11,726.77	6,701.81	-108.41	6,702.53	0.67	0.63	-0.21
18,209.00	89.70	359.90	11,727.10	6,796.81	-108.90	6,797.53	0.47	-0.21	0.42
18,304.00	90.30	359.30	11,727.10	6,891.81	-109.57	6,892.52	0.89	0.63	-0.63
18,399.00	91.20	359.30	11,725.86	6,986.79	-110.73	6,987.51	0.95	0.95	0.00
1618'FNL 406'FEL - BLUS 436H Last MWD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BLUS 436H SL	0.00	0.00	0.00	0.00	0.00	453,788.04	803,722.77	32° 14' 40.879 N	103° 29' 4.735 W
- actual wellpath hits target center									
- Point									
BLUS 436H Last MWD	0.00	0.00	11,725.86	6,986.79	-110.73	460,774.75	803,612.04	32° 15' 50.021 N	103° 29' 5.381 W
- actual wellpath hits target center									
- Point									

Titan Directional Drilling

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit South 436H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Site:	BLUS Pad 17	MD Reference:	GL+KB @ 3602.00usft (Latshaw 45)
Well:	Bell Lake Unit South 436H	North Reference:	Grid
Wellbore:	#436 OH	Survey Calculation Method:	Minimum Curvature
Design:	#436 OH	Database:	EDM 5k-14

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,343.00	1,342.93	13 3/8"		13-3/8	17-1/2
5,129.00	5,127.20	10 3/4"		10-3/4	12-1/4
10,949.00	10,945.45	7 5/8"		7-5/8	9-7/8

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
18,399.00	11,725.86	6,986.79	-110.73	1618'FNL 406'FEL	



CASING DETAILS

TVD	MD	Name
1342.93	1343.00	13 3/8"
5127.20	5129.00	10 3/4"
10945.45	10949.00	7 5/8"

SECTION CALL DEPTHS

MD	TVD	Annotation
18399.00	11725.86	1618'FNL 406'FEL

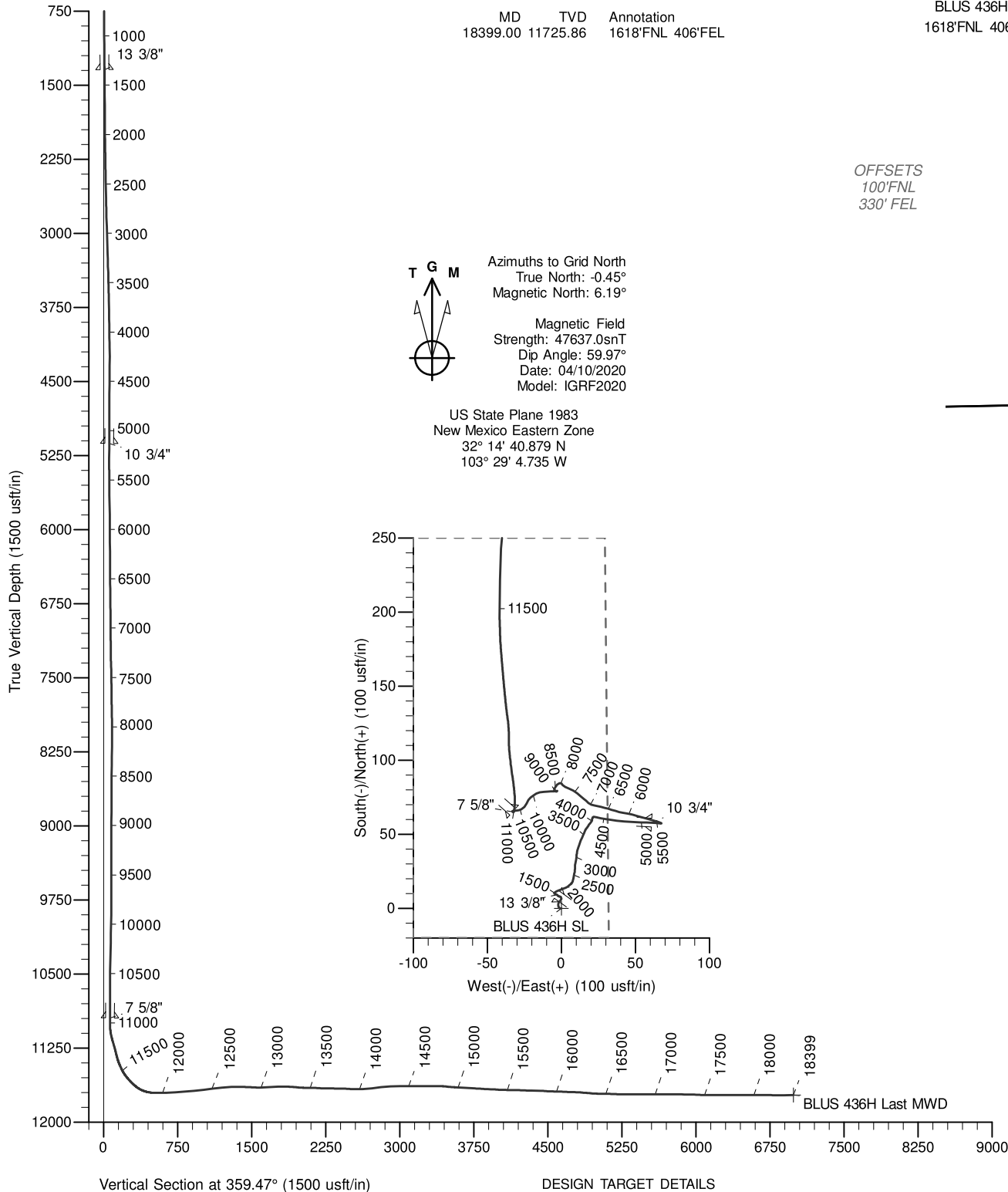
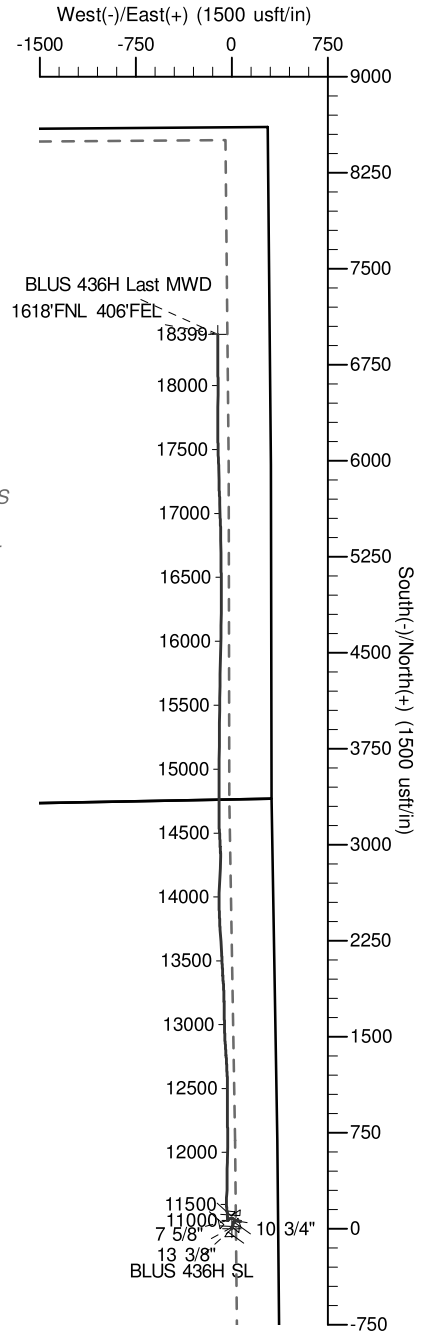


Azimuths to Grid North
 True North: -0.45°
 Magnetic North: 6.19°

Magnetic Field
 Strength: 47637.0snT
 Dip Angle: 59.97°
 Date: 04/10/2020
 Model: IGRF2020

US State Plane 1983
 New Mexico Eastern Zone
 32° 14' 40.879 N
 103° 29' 4.735 W

OFFSETS
 100'FNL
 330' FEL



Vertical Section at 359.47° (1500 usft/in)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BLUS 436H SL	0.00	0.00	0.00	453788.04	803722.77	32° 14' 40.879 N	103° 29' 4.735 W
BLUS 436H Last MWD	11725.86	6986.79	-110.73	460774.74	803612.04	32° 15' 50.021 N	103° 29' 5.381 W

S5-T24S-R34E SL
 1950'FSL 362'FEL
 S32-T23S-R34E MWD
 1618'FNL 406'FEL