

KAISER-FRANCIS OIL COMPANY

Kaiser - Francis Oil Company

Lea Co, NM (Nad 27 NME)

Bell Lake Unit South

#263H

HOBBS OCD

OH

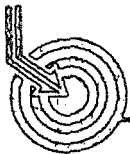
AUG 03 2016

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Plan: Plan #1

Standard Planning Report

04 May, 2016



Scientific Drilling

www.scientificdrilling.com

Database:	Midland District	Local Co-ordinate Reference:	Well #263H
Company:	Kaiser - Francis Oil Company	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Project:	Lea Co. NM (Nad 27 NME)	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site:	Bell Lake Unit South	North Reference:	Grid
Well:	#263H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea Co. NM (Nad 27 NME)		
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:	Bell Lake Unit South		
Site Position:		Northing:	453,957.70 usft
From:	Map	Easting:	757,248.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 43.105 N
		Longitude:	103° 30' 4.594 W
		Grid Convergence:	0.44 °

Well:	#263H		
Well Position	+N-S	-14.40 usft	Northing:
	+E-W	75.10 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 14' 42.957 N
		Longitude:	103° 30' 3.721 W
		Ground Level:	3,602.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	5/4/2016	6.93
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.05
			48,266

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			4.42

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,799.95	6.00	96.52	1,799.40	-1.78	15.59	2.00	2.00	0.00	96.52	
8,263.59	6.00	96.52	8,227.64	-78.43	686.74	0.00	0.00	0.00	0.00	
8,563.53	0.00	0.00	8,527.04	-80.21	702.32	2.00	-2.00	0.00	180.00	
9,763.53	0.00	0.00	9,727.04	-80.21	702.32	0.00	0.00	0.00	0.00	KOP (BLUS 263H)
10,663.53	90.00	359.43	10,300.00	492.72	696.59	10.00	10.00	-0.06	359.43	
18,199.19	90.00	359.43	10,300.00	8,028.00	621.20	0.00	0.00	0.00	0.00	PBHL (BLUS 263H)

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Site:	Bell Lake Unit South	North Reference:	Grid
Well:	#263H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2°/100									
1,600.00	2.00	96.52	1,599.98	-0.20	1.73	-0.06	2.00	2.00	0.00
1,700.00	4.00	96.52	1,699.84	-0.79	6.93	-0.26	2.00	2.00	0.00
1,799.95	6.00	96.52	1,799.40	-1.78	15.59	-0.57	2.00	2.00	0.00
Hold 6463.64'									
1,900.00	6.00	96.52	1,898.90	-2.97	25.98	-0.96	0.00	0.00	0.00
2,000.00	6.00	96.52	1,998.36	-4.15	36.36	-1.34	0.00	0.00	0.00
2,100.00	6.00	96.52	2,097.81	-5.34	46.74	-1.72	0.00	0.00	0.00
2,200.00	6.00	96.52	2,197.26	-6.52	57.13	-2.10	0.00	0.00	0.00
2,300.00	6.00	96.52	2,296.71	-7.71	67.51	-2.48	0.00	0.00	0.00
2,400.00	6.00	96.52	2,396.17	-8.90	77.89	-2.87	0.00	0.00	0.00
2,500.00	6.00	96.52	2,495.62	-10.08	88.28	-3.25	0.00	0.00	0.00
2,600.00	6.00	96.52	2,595.07	-11.27	98.66	-3.63	0.00	0.00	0.00
2,700.00	6.00	96.52	2,694.52	-12.45	109.04	-4.01	0.00	0.00	0.00
2,800.00	6.00	96.52	2,793.98	-13.64	119.43	-4.39	0.00	0.00	0.00
2,900.00	6.00	96.52	2,893.43	-14.83	129.81	-4.78	0.00	0.00	0.00
3,000.00	6.00	96.52	2,992.88	-16.01	140.19	-5.16	0.00	0.00	0.00
3,100.00	6.00	96.52	3,092.33	-17.20	150.58	-5.54	0.00	0.00	0.00
3,200.00	6.00	96.52	3,191.79	-18.38	160.96	-5.92	0.00	0.00	0.00
3,300.00	6.00	96.52	3,291.24	-19.57	171.34	-6.31	0.00	0.00	0.00
3,400.00	6.00	96.52	3,390.69	-20.75	181.73	-6.69	0.00	0.00	0.00
3,500.00	6.00	96.52	3,490.14	-21.94	192.11	-7.07	0.00	0.00	0.00
3,600.00	6.00	96.52	3,589.60	-23.13	202.49	-7.45	0.00	0.00	0.00
3,700.00	6.00	96.52	3,689.05	-24.31	212.88	-7.83	0.00	0.00	0.00
3,800.00	6.00	96.52	3,788.50	-25.50	223.26	-8.22	0.00	0.00	0.00
3,900.00	6.00	96.52	3,887.95	-26.68	233.65	-8.60	0.00	0.00	0.00
4,000.00	6.00	96.52	3,987.40	-27.87	244.03	-8.98	0.00	0.00	0.00
4,100.00	6.00	96.52	4,086.86	-29.06	254.41	-9.36	0.00	0.00	0.00
4,200.00	6.00	96.52	4,186.31	-30.24	264.80	-9.74	0.00	0.00	0.00
4,300.00	6.00	96.52	4,285.76	-31.43	275.18	-10.13	0.00	0.00	0.00
4,400.00	6.00	96.52	4,385.21	-32.61	285.56	-10.51	0.00	0.00	0.00
4,500.00	6.00	96.52	4,484.67	-33.80	295.95	-10.89	0.00	0.00	0.00
4,600.00	6.00	96.52	4,584.12	-34.99	306.33	-11.27	0.00	0.00	0.00
4,700.00	6.00	96.52	4,683.57	-36.17	316.71	-11.66	0.00	0.00	0.00
4,800.00	6.00	96.52	4,783.02	-37.36	327.10	-12.04	0.00	0.00	0.00
4,900.00	6.00	96.52	4,882.48	-38.54	337.48	-12.42	0.00	0.00	0.00
5,000.00	6.00	96.52	4,981.93	-39.73	347.86	-12.80	0.00	0.00	0.00
5,100.00	6.00	96.52	5,081.38	-40.92	358.25	-13.18	0.00	0.00	0.00

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Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.00	6.00	96.52	5,180.83	-42.10	368.63	-13.57	0.00	0.00	0.00	
5,300.00	6.00	96.52	5,280.29	-43.29	379.01	-13.95	0.00	0.00	0.00	
5,400.00	6.00	96.52	5,379.74	-44.47	389.40	-14.33	0.00	0.00	0.00	
5,500.00	6.00	96.52	5,479.19	-45.66	399.78	-14.71	0.00	0.00	0.00	
5,600.00	6.00	96.52	5,578.64	-46.84	410.16	-15.09	0.00	0.00	0.00	
5,700.00	6.00	96.52	5,678.10	-48.03	420.55	-15.48	0.00	0.00	0.00	
5,800.00	6.00	96.52	5,777.55	-49.22	430.93	-15.86	0.00	0.00	0.00	
5,900.00	6.00	96.52	5,877.00	-50.40	441.32	-16.24	0.00	0.00	0.00	
6,000.00	6.00	96.52	5,976.45	-51.59	451.70	-16.62	0.00	0.00	0.00	
6,100.00	6.00	96.52	6,075.90	-52.77	462.08	-17.00	0.00	0.00	0.00	
6,200.00	6.00	96.52	6,175.36	-53.96	472.47	-17.39	0.00	0.00	0.00	
6,300.00	6.00	96.52	6,274.81	-55.15	482.85	-17.77	0.00	0.00	0.00	
6,400.00	6.00	96.52	6,374.26	-56.33	493.23	-18.15	0.00	0.00	0.00	
6,500.00	6.00	96.52	6,473.71	-57.52	503.62	-18.53	0.00	0.00	0.00	
6,600.00	6.00	96.52	6,573.17	-58.70	514.00	-18.92	0.00	0.00	0.00	
6,700.00	6.00	96.52	6,672.62	-59.89	524.38	-19.30	0.00	0.00	0.00	
6,800.00	6.00	96.52	6,772.07	-61.08	534.77	-19.68	0.00	0.00	0.00	
6,900.00	6.00	96.52	6,871.52	-62.26	545.15	-20.06	0.00	0.00	0.00	
7,000.00	6.00	96.52	6,970.98	-63.45	555.53	-20.44	0.00	0.00	0.00	
7,100.00	6.00	96.52	7,070.43	-64.63	565.92	-20.83	0.00	0.00	0.00	
7,200.00	6.00	96.52	7,169.88	-65.82	576.30	-21.21	0.00	0.00	0.00	
7,300.00	6.00	96.52	7,269.33	-67.00	586.68	-21.59	0.00	0.00	0.00	
7,400.00	6.00	96.52	7,368.79	-68.19	597.07	-21.97	0.00	0.00	0.00	
7,500.00	6.00	96.52	7,468.24	-69.38	607.45	-22.35	0.00	0.00	0.00	
7,600.00	6.00	96.52	7,567.69	-70.56	617.83	-22.74	0.00	0.00	0.00	
7,700.00	6.00	96.52	7,667.14	-71.75	628.22	-23.12	0.00	0.00	0.00	
7,800.00	6.00	96.52	7,766.60	-72.93	638.60	-23.50	0.00	0.00	0.00	
7,900.00	6.00	96.52	7,866.05	-74.12	648.98	-23.88	0.00	0.00	0.00	
8,000.00	6.00	96.52	7,965.50	-75.31	659.37	-24.26	0.00	0.00	0.00	
8,100.00	6.00	96.52	8,064.95	-76.49	669.75	-24.65	0.00	0.00	0.00	
8,200.00	6.00	96.52	8,164.40	-77.68	680.14	-25.03	0.00	0.00	0.00	
8,263.59	6.00	96.52	8,227.64	-78.43	686.74	-25.27	0.00	0.00	0.00	
Drop 2°/100										
8,300.00	5.27	96.52	8,263.88	-78.84	690.29	-25.40	2.00	-2.00	0.00	
8,400.00	3.27	96.52	8,363.60	-79.68	697.69	-25.68	2.00	-2.00	0.00	
8,500.00	1.27	96.52	8,463.51	-80.13	701.62	-25.82	2.00	-2.00	0.00	
8,563.53	0.00	0.00	8,527.04	-80.21	702.32	-25.85	2.00	-2.00	0.00	
Hold 1200'										
8,600.00	0.00	0.00	8,563.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,663.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,763.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,863.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,963.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,063.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,163.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,263.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,363.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,463.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,563.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,663.51	-80.21	702.32	-25.85	0.00	0.00	0.00	
9,763.53	0.00	0.00	9,727.04	-80.21	702.32	-25.85	0.00	0.00	0.00	
KO 10°/100										
9,800.00	3.65	359.43	9,763.48	-79.05	702.31	-24.69	10.00	10.00	0.00	

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Well:	#263H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,850.00	8.65	359.43	9,813.18	-73.70	702.26	-19.36	10.00	10.00	0.00
9,900.00	13.65	359.43	9,862.22	-64.04	702.16	-9.73	10.00	10.00	0.00
9,950.00	18.65	359.43	9,910.23	-50.14	702.02	4.12	10.00	10.00	0.00
10,000.00	23.65	359.43	9,956.85	-32.11	701.84	22.08	10.00	10.00	0.00
10,050.00	28.65	359.43	10,001.72	-10.08	701.62	44.02	10.00	10.00	0.00
10,100.00	33.65	359.43	10,044.50	15.77	701.36	69.78	10.00	10.00	0.00
10,150.00	38.65	359.43	10,084.86	45.25	701.07	99.15	10.00	10.00	0.00
10,200.00	43.65	359.43	10,122.50	78.14	700.74	131.91	10.00	10.00	0.00
10,250.00	48.65	359.43	10,157.13	114.18	700.38	167.82	10.00	10.00	0.00
10,300.00	53.65	359.43	10,188.49	153.11	699.99	206.60	10.00	10.00	0.00
10,350.00	58.65	359.43	10,216.33	194.62	699.57	247.95	10.00	10.00	0.00
10,400.00	63.65	359.43	10,240.45	238.39	699.14	291.57	10.00	10.00	0.00
10,450.00	68.65	359.43	10,260.67	284.11	698.68	337.11	10.00	10.00	0.00
10,500.00	73.65	359.43	10,276.82	331.41	698.21	384.23	10.00	10.00	0.00
10,550.00	78.65	359.43	10,288.79	379.93	697.72	432.58	10.00	10.00	0.00
10,600.00	83.65	359.43	10,296.48	429.32	697.23	481.78	10.00	10.00	0.00
10,650.00	88.65	359.43	10,299.84	479.19	696.73	531.46	10.00	10.00	0.00
10,663.53	90.00	359.43	10,300.00	492.72	696.59	544.94	10.00	10.00	0.00
LP Hold 7635.66'									
10,700.00	90.00	359.43	10,300.00	529.18	696.23	581.27	0.00	0.00	0.00
10,800.00	90.00	359.43	10,300.00	629.18	695.23	680.89	0.00	0.00	0.00
10,900.00	90.00	359.43	10,300.00	729.17	694.23	780.51	0.00	0.00	0.00
11,000.00	90.00	359.43	10,300.00	829.17	693.23	880.13	0.00	0.00	0.00
11,100.00	90.00	359.43	10,300.00	929.16	692.23	979.75	0.00	0.00	0.00
11,200.00	90.00	359.43	10,300.00	1,029.16	691.22	1,079.37	0.00	0.00	0.00
11,300.00	90.00	359.43	10,300.00	1,129.15	690.22	1,178.99	0.00	0.00	0.00
11,400.00	90.00	359.43	10,300.00	1,229.15	689.22	1,278.61	0.00	0.00	0.00
11,500.00	90.00	359.43	10,300.00	1,329.14	688.22	1,378.23	0.00	0.00	0.00
11,600.00	90.00	359.43	10,300.00	1,429.14	687.22	1,477.85	0.00	0.00	0.00
11,700.00	90.00	359.43	10,300.00	1,529.13	686.22	1,577.47	0.00	0.00	0.00
11,800.00	90.00	359.43	10,300.00	1,629.13	685.22	1,677.09	0.00	0.00	0.00
11,900.00	90.00	359.43	10,300.00	1,729.12	684.22	1,776.71	0.00	0.00	0.00
12,000.00	90.00	359.43	10,300.00	1,829.12	683.22	1,876.33	0.00	0.00	0.00
12,100.00	90.00	359.43	10,300.00	1,929.11	682.22	1,975.95	0.00	0.00	0.00
12,200.00	90.00	359.43	10,300.00	2,029.11	681.22	2,075.58	0.00	0.00	0.00
12,300.00	90.00	359.43	10,300.00	2,129.10	680.22	2,175.20	0.00	0.00	0.00
12,400.00	90.00	359.43	10,300.00	2,229.10	679.22	2,274.82	0.00	0.00	0.00
12,500.00	90.00	359.43	10,300.00	2,329.09	678.22	2,374.44	0.00	0.00	0.00
12,600.00	90.00	359.43	10,300.00	2,429.09	677.22	2,474.06	0.00	0.00	0.00
12,700.00	90.00	359.43	10,300.00	2,529.08	676.22	2,573.68	0.00	0.00	0.00
12,800.00	90.00	359.43	10,300.00	2,629.08	675.22	2,673.30	0.00	0.00	0.00
12,900.00	90.00	359.43	10,300.00	2,729.07	674.22	2,772.92	0.00	0.00	0.00
13,000.00	90.00	359.43	10,300.00	2,829.07	673.22	2,872.54	0.00	0.00	0.00
13,100.00	90.00	359.43	10,300.00	2,929.06	672.22	2,972.16	0.00	0.00	0.00
13,200.00	90.00	359.43	10,300.00	3,029.06	671.22	3,071.78	0.00	0.00	0.00
13,300.00	90.00	359.43	10,300.00	3,129.05	670.21	3,171.40	0.00	0.00	0.00
13,400.00	90.00	359.43	10,300.00	3,229.05	669.21	3,271.02	0.00	0.00	0.00
13,500.00	90.00	359.43	10,300.00	3,329.04	668.21	3,370.64	0.00	0.00	0.00
13,600.00	90.00	359.43	10,300.00	3,429.04	667.21	3,470.26	0.00	0.00	0.00
13,700.00	90.00	359.43	10,300.00	3,529.03	666.21	3,569.88	0.00	0.00	0.00
13,800.00	90.00	359.43	10,300.00	3,629.03	665.21	3,669.50	0.00	0.00	0.00
13,900.00	90.00	359.43	10,300.00	3,729.02	664.21	3,769.12	0.00	0.00	0.00
14,000.00	90.00	359.43	10,300.00	3,829.02	663.21	3,868.74	0.00	0.00	0.00
14,100.00	90.00	359.43	10,300.00	3,929.01	662.21	3,968.36	0.00	0.00	0.00

Database:	Midland District	Local Co-ordinate Reference:	Well #263H
Company:	Kaiser - Francis Oil Company	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Project:	Lea Co, NM (Nad 27 NME)	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site:	Bell Lake Unit South	North Reference:	Grid
Well:	#263H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,200.00	90.00	359.43	10,300.00	4,029.01	661.21	4,067.98	0.00	0.00	0.00	
14,300.00	90.00	359.43	10,300.00	4,129.00	660.21	4,167.61	0.00	0.00	0.00	
14,400.00	90.00	359.43	10,300.00	4,229.00	659.21	4,267.23	0.00	0.00	0.00	
14,500.00	90.00	359.43	10,300.00	4,328.99	658.21	4,366.85	0.00	0.00	0.00	
14,600.00	90.00	359.43	10,300.00	4,428.99	657.21	4,466.47	0.00	0.00	0.00	
14,700.00	90.00	359.43	10,300.00	4,528.98	656.21	4,566.09	0.00	0.00	0.00	
14,800.00	90.00	359.43	10,300.00	4,628.98	655.21	4,665.71	0.00	0.00	0.00	
14,900.00	90.00	359.43	10,300.00	4,728.97	654.21	4,765.33	0.00	0.00	0.00	
15,000.00	90.00	359.43	10,300.00	4,828.97	653.21	4,864.95	0.00	0.00	0.00	
15,100.00	90.00	359.43	10,300.00	4,928.96	652.21	4,964.57	0.00	0.00	0.00	
15,200.00	90.00	359.43	10,300.00	5,028.96	651.21	5,064.19	0.00	0.00	0.00	
15,300.00	90.00	359.43	10,300.00	5,128.95	650.21	5,163.81	0.00	0.00	0.00	
15,400.00	90.00	359.43	10,300.00	5,228.95	649.21	5,263.43	0.00	0.00	0.00	
15,500.00	90.00	359.43	10,300.00	5,328.94	648.20	5,363.05	0.00	0.00	0.00	
15,600.00	90.00	359.43	10,300.00	5,428.94	647.20	5,462.67	0.00	0.00	0.00	
15,700.00	90.00	359.43	10,300.00	5,528.93	646.20	5,562.29	0.00	0.00	0.00	
15,800.00	90.00	359.43	10,300.00	5,628.93	645.20	5,661.91	0.00	0.00	0.00	
15,900.00	90.00	359.43	10,300.00	5,728.92	644.20	5,761.53	0.00	0.00	0.00	
16,000.00	90.00	359.43	10,300.00	5,828.92	643.20	5,861.15	0.00	0.00	0.00	
16,100.00	90.00	359.43	10,300.00	5,928.91	642.20	5,960.77	0.00	0.00	0.00	
16,200.00	90.00	359.43	10,300.00	6,028.91	641.20	6,060.39	0.00	0.00	0.00	
16,300.00	90.00	359.43	10,300.00	6,128.90	640.20	6,160.01	0.00	0.00	0.00	
16,400.00	90.00	359.43	10,300.00	6,228.90	639.20	6,259.64	0.00	0.00	0.00	
16,500.00	90.00	359.43	10,300.00	6,328.89	638.20	6,359.26	0.00	0.00	0.00	
16,600.00	90.00	359.43	10,300.00	6,428.89	637.20	6,458.88	0.00	0.00	0.00	
16,700.00	90.00	359.43	10,300.00	6,528.88	636.20	6,558.50	0.00	0.00	0.00	
16,800.00	90.00	359.43	10,300.00	6,628.88	635.20	6,658.12	0.00	0.00	0.00	
16,900.00	90.00	359.43	10,300.00	6,728.87	634.20	6,757.74	0.00	0.00	0.00	
17,000.00	90.00	359.43	10,300.00	6,828.87	633.20	6,857.36	0.00	0.00	0.00	
17,100.00	90.00	359.43	10,300.00	6,928.86	632.20	6,956.98	0.00	0.00	0.00	
17,200.00	90.00	359.43	10,300.00	7,028.86	631.20	7,056.60	0.00	0.00	0.00	
17,300.00	90.00	359.43	10,300.00	7,128.85	630.20	7,156.22	0.00	0.00	0.00	
17,400.00	90.00	359.43	10,300.00	7,228.85	629.20	7,255.84	0.00	0.00	0.00	
17,500.00	90.00	359.43	10,300.00	7,328.84	628.20	7,355.46	0.00	0.00	0.00	
17,600.00	90.00	359.43	10,300.00	7,428.84	627.19	7,455.08	0.00	0.00	0.00	
17,700.00	90.00	359.43	10,300.00	7,528.83	626.19	7,554.70	0.00	0.00	0.00	
17,800.00	90.00	359.43	10,300.00	7,628.83	625.19	7,654.32	0.00	0.00	0.00	
17,900.00	90.00	359.43	10,300.00	7,728.82	624.19	7,753.94	0.00	0.00	0.00	
18,000.00	90.00	359.43	10,300.00	7,828.82	623.19	7,853.56	0.00	0.00	0.00	
18,100.00	90.00	359.43	10,300.00	7,928.81	622.19	7,953.18	0.00	0.00	0.00	
18,199.19	90.00	359.43	10,300.00	8,028.00	621.20	8,052.00	0.00	0.00	0.00	
TD at 18199.19'										

Database:	Midland District	Local Co-ordinate Reference:	Well #263H
Company:	Kaiser - Francis Oil Company	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Project:	Lea Co, NM (Nad 27 NME)	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site:	Bell Lake Unit South	North Reference:	Grid
Well:	#263H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (BLUS 263H)	- plan hits target center - Point	0.00	0.00	9,727.04	-80.21	702.32	453,863.09	758,025.62	32° 14' 42.109 N	103° 29' 55.551 W
FTP (BLUS 263H)	- plan misses target center by 1.99usft at 10664.13usft MD (10300.00 TVD, 493.32 N, 696.59 E) - Point	0.00	0.01	10,300.00	493.30	694.60	454,436.60	758,017.90	32° 14' 47.785 N	103° 29' 55.589 W
PBHL (BLUS 263H)	- plan hits target center - Point	0.00	0.01	10,300.00	8,028.00	621.20	461,971.30	757,944.50	32° 16' 2.348 N	103° 29' 55.761 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	Build 2"/100
1,799.95	1,799.40	-1.78	15.59	Hold 6463.64'
8,263.59	8,227.64	-78.43	686.74	Drop 2"/100
8,563.53	8,527.04	-80.21	702.32	Hold 1200'
9,763.53	9,727.04	-80.21	702.32	KO 10"/100
10,663.53	10,300.00	492.72	696.59	LP Hold 7535.66'
18,199.19	10,300.00	8,028.00	621.20	TD at 18199.19'

Kaiser-Francis Oil Company

Bell Lake Unit South #263H
Lea Co, NM (Nad 27 NME)
Northing: (Y) 453943.30
Easting: (X) 757323.30
Plan #1



Scientific Drilling

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.49°

Magnetic Field
Strength: 48265.5nT
Dip Angle: 60.05°
Date: 5/4/2016
Model: HDGM

To convert Magnetic North to Grid, Add 6.49°
To convert True North to Grid, Subtract 0.44°



KB=23' @ 3625.00usft (Cactus 170)
3602.00

HOBBS OCD

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Surface Hole Location:						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	453943.30	757323.30	32° 14' 42.957 N	103° 30' 3.721 W	

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1799.95	6.00	96.52	1799.40	-1.78	15.59	2.00	96.52	-0.57
8263.58	6.00	96.52	8227.64	-78.43	686.74	0.00	0.00	-25.27
8563.53	0.00	0.00	8527.04	-80.21	702.32	2.00	180.00	-25.85
9763.53	0.00	0.00	9727.04	-80.21	702.32	0.00	0.00	-25.85
10663.53	90.00	359.43	10300.00	492.72	696.59	10.00	359.43	544.94
18199.19	90.00	359.43	10300.00	8028.00	621.20	0.00	0.00	8052.00

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (BLUS 263H)	9727.04	-80.21	702.32	453863.09	758025.62
PBHL (BLUS 263H)	10300.00	8028.00	621.20	461971.30	757944.50
FTP (BLUS 263H)	10300.00	493.30	694.60	454436.60	758017.90

Units In Feet

SITE DETAILS: Bell Lake Unit South
Site Centre Northing: 453957.70
Easting: 757248.20

Positional Uncertainty: 0.00
Convergence: 0.44
Local North: Grid

PROJECT DETAILS: Lea Co, NM (Nad 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

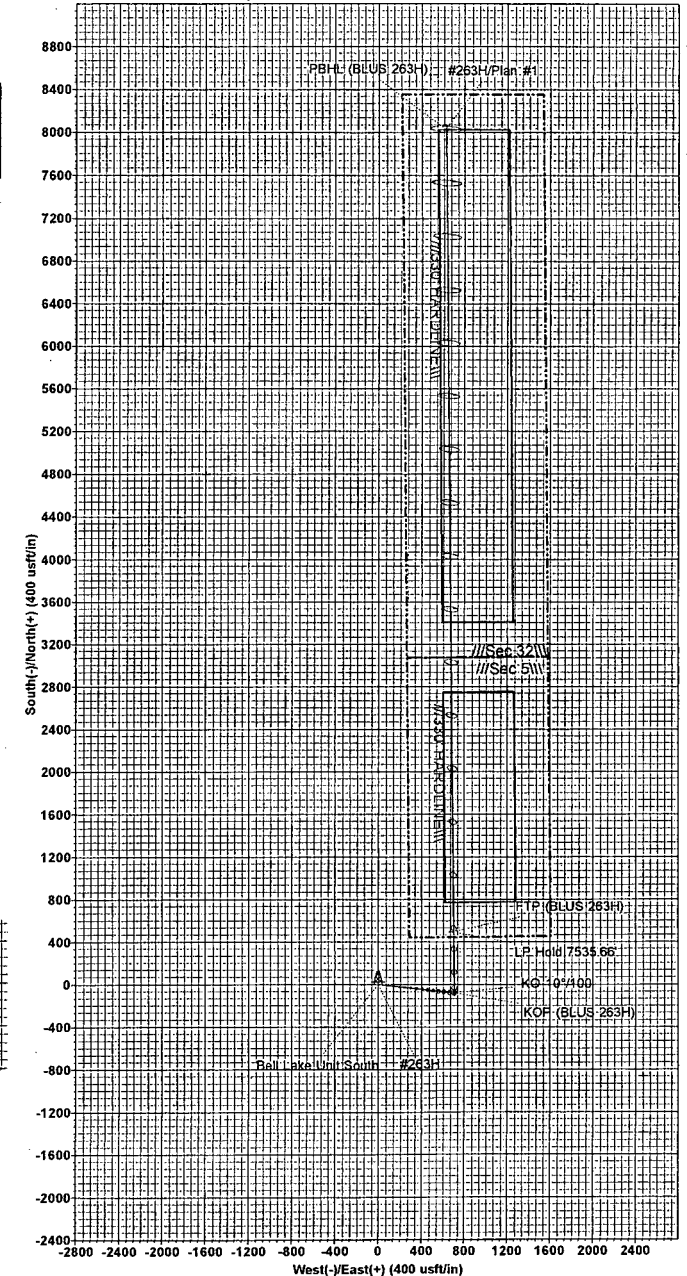
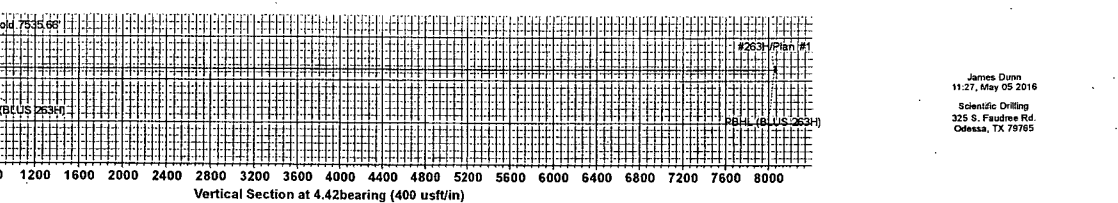
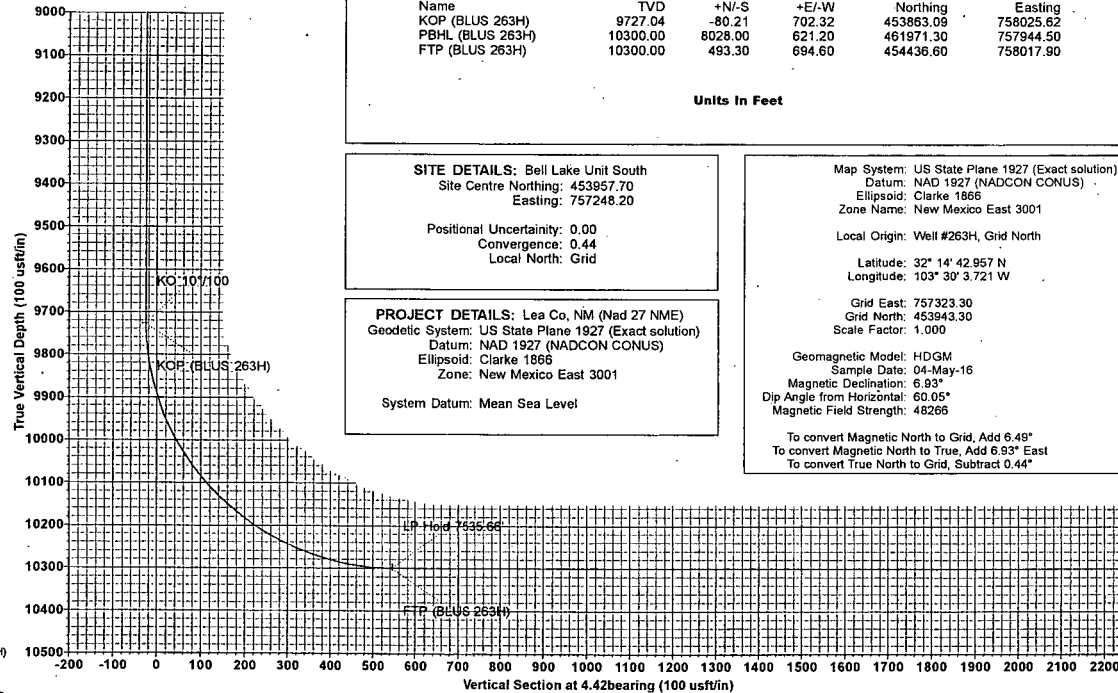
Local Origin: Well #263H, Grid North

Latitude: 32° 14' 42.957 N
Longitude: 103° 30' 3.721 W

Grid East: 757323.30
Grid North: 453943.30
Scale Factor: 1.000

Geomagnetic Model: HDGM
Sample Date: 04-May-16
Magnetic Declination: 6.93°
Dip Angle from Horizontal: 60.05°
Magnetic Field Strength: 48265

To convert Magnetic North to Grid, Add 6.49°
To convert Magnetic North to True, Add 6.93° East
To convert True North to Grid, Subtract 0.44°



James Dunn
11.27, May 05 2016
Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

Wells - Francis Oil Company
Lea Co, NM (Nad 27 NME)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
Scale: 1:1000

KAISER-FRANCIS OIL COMPANY

Kaiser - Francis Oil Company

Lea Co, NM (Nad 27 NME)

Bell Lake Unit South

#263H

OH

Plan #1

HOBBS OCD

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Anticollision Report

04 May, 2016



Scientific Drilling

www.scientificdrilling.com

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

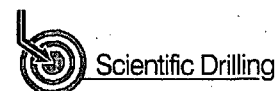
Survey Tool Program		Date: 5/4/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,198.71	Plan #1 (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
South Bell Lake Unit 6 2BSS						
#1H - OH - Plan #1	1,500.00	1,498.00	85.07	78.61	13.165	CC, ES
#1H - OH - Plan #1	18,199.19	18,279.38	2,099.65	1,804.52	7.114	SF

Offset Design														Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	Toothface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-62.41	39.40	-75.40	85.10						
100.00	100.00	98.00	98.00	0.09	0.08	-62.41	39.40	-75.40	85.07	84.90	0.17	496.521			
200.00	200.00	198.00	198.00	0.31	0.31	-62.41	39.40	-75.40	85.07	84.46	0.62	137.636			
300.00	300.00	298.00	298.00	0.54	0.53	-62.41	39.40	-75.40	85.07	84.01	1.07	79.684			
400.00	400.00	398.00	398.00	0.76	0.76	-62.41	39.40	-75.40	85.07	83.56	1.52	56.074			
500.00	500.00	498.00	498.00	0.99	0.98	-62.41	39.40	-75.40	85.07	83.11	1.97	43.257			
600.00	600.00	598.00	598.00	1.21	1.21	-62.41	39.40	-75.40	85.07	82.66	2.42	35.209			
700.00	700.00	698.00	698.00	1.44	1.43	-62.41	39.40	-75.40	85.07	82.21	2.87	29.686			
800.00	800.00	798.00	798.00	1.66	1.66	-62.41	39.40	-75.40	85.07	81.76	3.32	25.661			
900.00	900.00	898.00	898.00	1.88	1.88	-62.41	39.40	-75.40	85.07	81.31	3.76	22.597			
1,000.00	1,000.00	998.00	998.00	2.11	2.10	-62.41	39.40	-75.40	85.07	80.86	4.21	20.187			
1,100.00	1,100.00	1,098.00	1,098.00	2.33	2.33	-62.41	39.40	-75.40	85.07	80.41	4.66	18.241			
1,200.00	1,200.00	1,198.00	1,198.00	2.56	2.55	-62.41	39.40	-75.40	85.07	79.96	5.11	16.637			
1,300.00	1,300.00	1,298.00	1,298.00	2.78	2.78	-62.41	39.40	-75.40	85.07	79.51	5.56	15.293			
1,400.00	1,400.00	1,398.00	1,398.00	3.01	3.00	-62.41	39.40	-75.40	85.07	79.06	6.01	14.149			
1,500.00	1,500.00	1,498.00	1,498.00	3.23	3.23	-62.41	39.40	-75.40	85.07	78.61	6.46	13.165	CC, ES		
1,600.00	1,599.98	1,595.53	1,595.51	3.44	3.43	-159.88	39.23	-76.98	88.07	81.20	6.87	12.816			
1,700.00	1,699.84	1,692.33	1,692.19	3.64	3.63	-162.41	38.71	-81.82	97.31	90.06	7.25	13.424			
1,799.95	1,799.40	1,787.76	1,787.27	3.85	3.83	-165.69	37.85	-89.76	113.01	105.39	7.62	14.829			
1,900.00	1,898.90	1,881.73	1,880.60	4.07	4.04	-168.93	36.68	-100.65	133.68	125.67	8.01	16.679			
2,000.00	1,998.36	1,974.20	1,972.03	4.30	4.26	-171.70	35.20	-114.33	157.63	149.22	8.41	18.733			
2,100.00	2,097.81	2,069.05	2,065.47	4.54	4.52	-174.04	33.45	-130.59	184.04	175.21	8.83	20.852			
2,200.00	2,197.26	2,165.23	2,160.18	4.79	4.79	-175.83	31.65	-147.18	210.79	201.54	9.25	22.800			
2,300.00	2,296.71	2,261.40	2,254.90	5.03	5.07	-177.22	29.86	-163.78	237.68	228.01	9.67	24.581			
2,400.00	2,396.17	2,357.57	2,349.61	5.29	5.37	-178.33	28.07	-180.37	264.68	254.58	10.10	26.211			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

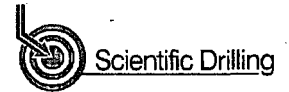
Offset Design													Offset Site Error:
South Bell Lake Unit 6 2BSS - #1H - OH - Plan #1													0.00 usft
Survey Program: O-SDI/MWD													Offset Well Error:
Reference													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.00	2,495.62	2,453.75	2,444.32	5.55	5.68	-179.23	26.28	-196.97	291.75	281.22	10.53	27.704	
2,600.00	2,595.07	2,549.92	2,539.04	5.81	5.99	-179.98	24.49	-213.57	318.88	307.91	10.97	29.074	
2,700.00	2,694.52	2,646.09	2,633.75	6.07	6.31	179.39	22.70	-230.16	346.05	334.64	11.41	30.334	
2,800.00	2,793.98	2,742.27	2,728.47	6.34	6.64	178.85	20.91	-246.76	373.25	361.40	11.85	31.495	
2,900.00	2,893.43	2,838.44	2,823.18	6.61	6.97	178.38	19.12	-263.35	400.49	388.19	12.30	32.568	
3,000.00	2,992.88	2,934.61	2,917.89	6.88	7.30	177.97	17.33	-279.95	427.74	414.99	12.75	33.561	
3,100.00	3,092.33	3,030.79	3,012.61	7.15	7.64	177.62	15.54	-296.55	455.01	441.81	13.20	34.481	
3,200.00	3,191.79	3,126.96	3,107.32	7.42	7.98	177.30	13.75	-313.14	482.29	468.64	13.65	35.337	
3,300.00	3,291.24	3,223.13	3,202.03	7.70	8.33	177.01	11.96	-329.74	509.59	495.49	14.10	36.135	
3,400.00	3,390.69	3,319.31	3,296.75	7.98	8.68	176.76	10.17	-346.33	536.90	522.34	14.56	36.879	
3,500.00	3,490.14	3,415.48	3,391.46	8.25	9.03	176.53	8.38	-362.93	564.21	549.20	15.02	37.574	
3,600.00	3,589.60	3,511.65	3,486.17	8.53	9.38	176.32	6.59	-379.52	591.54	576.06	15.47	38.226	
3,700.00	3,689.05	3,607.83	3,580.89	8.81	9.73	176.13	4.80	-396.12	618.87	602.93	15.93	38.837	
3,800.00	3,788.50	3,704.00	3,675.60	9.09	10.09	175.96	3.00	-412.72	646.20	629.81	16.40	39.412	
3,900.00	3,887.95	3,800.17	3,770.32	9.38	10.44	175.79	1.21	-429.31	673.55	656.69	16.86	39.953	
4,000.00	3,987.40	3,896.34	3,865.03	9.66	10.80	175.65	-0.58	-445.91	700.89	683.57	17.32	40.463	
4,100.00	4,086.86	3,992.52	3,959.74	9.94	11.16	175.51	-2.37	-462.50	728.24	710.46	17.79	40.945	
4,200.00	4,186.31	4,088.69	4,054.46	10.23	11.52	175.38	-4.16	-479.10	755.59	737.34	18.25	41.400	
4,300.00	4,285.76	4,184.86	4,149.17	10.51	11.88	175.27	-5.95	-495.70	782.95	764.23	18.72	41.831	
4,400.00	4,385.21	4,281.04	4,243.88	10.79	12.24	175.16	-7.74	-512.29	810.31	791.13	19.18	42.240	
4,500.00	4,484.67	4,377.21	4,338.60	11.08	12.60	175.05	-9.53	-528.89	837.67	818.02	19.65	42.628	
4,600.00	4,584.12	4,473.38	4,433.31	11.36	12.97	174.96	-11.32	-545.48	865.04	844.92	20.12	42.996	
4,700.00	4,683.57	4,569.56	4,528.02	11.65	13.33	174.87	-13.11	-562.08	892.40	871.82	20.59	43.347	
4,800.00	4,783.02	4,665.73	4,622.74	11.94	13.70	174.78	-14.90	-578.67	919.77	898.72	21.06	43.681	
4,900.00	4,882.48	4,761.90	4,717.45	12.22	14.06	174.70	-16.69	-595.27	947.14	925.62	21.53	43.999	
5,000.00	4,981.93	4,858.08	4,812.16	12.51	14.43	174.63	-18.48	-611.87	974.51	952.52	22.00	44.303	
5,100.00	5,081.38	4,954.25	4,906.88	12.80	14.79	174.55	-20.27	-628.46	1,001.89	979.42	22.47	44.593	
5,200.00	5,180.83	5,050.42	5,001.59	13.09	15.16	174.49	-22.06	-645.06	1,029.26	1,006.32	22.94	44.871	
5,300.00	5,280.29	5,146.60	5,096.31	13.37	15.53	174.42	-23.85	-661.65	1,056.64	1,033.23	23.41	45.137	
5,400.00	5,379.74	5,242.77	5,191.02	13.66	15.89	174.36	-25.65	-678.25	1,084.02	1,060.13	23.88	45.391	
5,500.00	5,479.19	5,338.94	5,285.73	13.95	16.26	174.30	-27.44	-694.85	1,111.39	1,087.04	24.35	45.635	
5,600.00	5,578.64	5,435.12	5,380.45	14.24	16.63	174.25	-29.23	-711.44	1,138.77	1,113.95	24.83	45.869	
5,700.00	5,678.10	5,531.29	5,475.16	14.53	17.00	174.20	-31.02	-728.04	1,166.15	1,140.85	25.30	46.093	
5,800.00	5,777.55	5,627.46	5,569.87	14.82	17.37	174.15	-32.81	-744.63	1,193.53	1,167.76	25.77	46.309	
5,900.00	5,877.00	5,723.64	5,664.59	15.10	17.73	174.10	-34.60	-761.23	1,220.92	1,194.67	26.25	46.516	
6,000.00	5,976.45	5,819.81	5,759.30	15.39	18.10	174.05	-36.39	-777.82	1,248.30	1,221.58	26.72	46.716	
6,100.00	6,075.90	5,915.98	5,854.01	15.68	18.47	174.01	-38.18	-794.42	1,275.68	1,248.49	27.20	46.908	
6,200.00	6,175.36	6,012.16	5,948.73	15.97	18.84	173.97	-39.97	-811.02	1,303.07	1,275.40	27.67	47.093	
6,300.00	6,274.81	6,108.33	6,043.44	16.26	19.21	173.93	-41.76	-827.61	1,330.45	1,302.31	28.14	47.272	
6,400.00	6,374.26	6,204.50	6,138.16	16.55	19.58	173.89	-43.55	-844.21	1,357.84	1,329.22	28.62	47.444	
6,500.00	6,473.71	6,300.68	6,232.87	16.84	19.95	173.85	-45.34	-860.80	1,385.22	1,356.13	29.10	47.610	
6,600.00	6,573.17	6,396.85	6,327.58	17.13	20.32	173.81	-47.13	-877.40	1,412.61	1,383.04	29.57	47.770	
6,700.00	6,672.62	6,493.02	6,422.30	17.42	20.69	173.78	-48.92	-894.00	1,439.99	1,409.95	30.05	47.925	
6,800.00	6,772.07	6,589.20	6,517.01	17.71	21.06	173.75	-50.71	-910.59	1,467.38	1,436.86	30.52	48.074	
6,900.00	6,871.52	6,685.37	6,611.72	18.00	21.43	173.72	-52.50	-927.19	1,494.77	1,463.77	31.00	48.219	
7,000.00	6,970.98	6,781.54	6,706.44	18.29	21.81	173.68	-54.30	-943.78	1,522.16	1,490.68	31.48	48.359	
7,100.00	7,070.43	6,877.72	6,801.15	18.58	22.18	173.66	-56.09	-960.38	1,549.55	1,517.59	31.95	48.494	
7,200.00	7,169.88	6,973.89	6,895.86	18.87	22.55	173.63	-57.88	-976.97	1,576.93	1,544.50	32.43	48.626	
7,300.00	7,269.33	7,070.06	6,990.58	19.17	22.92	173.60	-59.67	-993.57	1,604.32	1,571.42	32.91	48.753	
7,400.00	7,368.79	7,166.24	7,085.29	19.46	23.29	173.57	-61.46	-1,010.17	1,631.71	1,598.33	33.38	48.876	
7,500.00	7,468.24	7,262.41	7,180.01	19.75	23.66	173.55	-63.25	-1,026.76	1,659.10	1,625.24	33.86	48.995	
7,600.00	7,567.69	7,358.58	7,274.72	20.04	24.03	173.52	-65.04	-1,043.36	1,686.49	1,652.15	34.34	49.111	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design South Bell Lake Unit 6 2BSS - #1H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0:SDI MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
7,700.00	7,667.14	7,454.76	7,369.43	20.33	24.41	173.50	-66.83	-1,059.95	1,713.88	1,679.06	34.82	49.224			
7,800.00	7,766.60	7,550.93	7,464.15	20.62	24.78	173.47	-68.62	-1,076.55	1,741.27	1,705.98	35.30	49.333			
7,900.00	7,866.05	7,647.10	7,558.86	20.91	25.15	173.45	-70.41	-1,093.15	1,768.66	1,732.89	35.77	49.439			
8,000.00	7,965.50	7,743.28	7,653.57	21.20	25.52	173.43	-72.20	-1,109.74	1,796.06	1,759.80	36.25	49.541			
8,100.00	8,064.95	7,839.45	7,748.29	21.49	25.89	173.41	-73.99	-1,126.34	1,823.45	1,786.71	36.73	49.641			
8,200.00	8,164.40	7,935.62	7,843.00	21.79	26.27	173.39	-75.78	-1,142.93	1,850.84	1,813.63	37.21	49.739			
8,300.00	8,263.88	8,031.86	7,937.77	22.06	26.64	173.39	-77.57	-1,159.54	1,878.01	1,840.27	37.74	49.764			
8,400.00	8,363.60	8,128.80	8,033.25	22.27	27.01	173.42	-79.38	-1,176.27	1,902.51	1,864.21	38.29	49.680			
8,500.00	8,463.51	8,226.53	8,129.49	22.44	27.39	173.43	-81.20	-1,193.13	1,923.63	1,884.82	38.81	49.568			
8,600.00	8,563.51	8,324.89	8,226.36	22.61	27.77	-90.08	-83.03	-1,210.11	1,941.58	1,902.28	39.30	49.405			
8,700.00	8,663.51	8,423.37	8,323.34	22.78	28.15	-90.14	-84.86	-1,227.10	1,958.84	1,919.09	39.75	49.285			
8,800.00	8,763.51	8,521.85	8,420.33	22.95	28.54	-90.19	-86.70	-1,244.09	1,976.10	1,935.91	40.19	49.166			
8,900.00	8,863.51	8,620.33	8,517.32	23.12	28.92	-90.24	-88.53	-1,261.09	1,993.37	1,952.73	40.64	49.049			
9,000.00	8,963.51	8,718.82	8,614.31	23.30	29.30	-90.29	-90.37	-1,278.08	2,010.64	1,969.55	41.09	48.935			
9,100.00	9,063.51	8,817.30	8,711.30	23.47	29.68	-90.34	-92.20	-1,295.08	2,027.91	1,986.37	41.54	48.822			
9,200.00	9,163.51	8,915.78	8,808.28	23.65	30.06	-90.39	-94.03	-1,312.07	2,045.18	2,003.19	41.99	48.711			
9,300.00	9,263.51	9,014.26	8,905.27	23.82	30.45	-90.44	-95.87	-1,329.07	2,062.45	2,020.01	42.44	48.601			
9,400.00	9,363.51	9,112.74	9,002.26	24.00	30.83	-90.49	-97.70	-1,346.06	2,079.72	2,036.84	42.89	48.494			
9,500.00	9,463.51	9,211.56	9,205.54	24.18	31.47	-90.58	-101.13	-1,377.85	2,095.97	2,052.43	43.54	48.140			
9,600.00	9,563.51	9,310.51	9,561.51	24.35	32.11	-90.63	-103.45	-1,399.37	2,101.83	2,057.45	44.38	47.360			
9,700.00	9,663.51	9,409.51	9,661.51	24.53	32.24	-90.63	-103.45	-1,399.37	2,101.83	2,057.07	44.76	46.955			
9,800.00	9,763.48	9,508.59	9,761.66	24.71	32.38	-90.06	-102.41	-1,399.38	2,101.83	2,056.71	45.12	46.586			
9,900.00	9,862.22	9,607.12	9,860.96	24.87	32.50	-90.07	-87.58	-1,399.53	2,101.82	2,056.37	45.46	46.236			
10,000.00	9,956.85	10,076.69	9,956.19	25.01	32.59	-90.08	-55.64	-1,399.84	2,101.82	2,056.05	45.76	45.929			
10,100.00	10,044.50	10,177.29	10,044.39	25.13	32.66	-90.08	-7.54	-1,400.31	2,101.80	2,055.74	46.06	45.628			
10,200.00	10,122.50	10,277.89	10,122.84	25.24	32.73	-90.08	55.23	-1,400.92	2,101.79	2,055.37	46.41	45.283			
10,300.00	10,188.49	10,378.47	10,188.11	25.37	32.80	-90.08	130.72	-1,401.65	2,101.77	2,054.89	46.87	44.841			
10,400.00	10,240.45	10,479.02	10,241.17	25.54	32.90	-90.08	216.59	-1,402.49	2,101.74	2,054.25	47.49	44.255			
10,500.00	10,276.82	10,579.52	10,277.41	25.81	33.06	-90.07	310.19	-1,403.40	2,101.72	2,053.41	48.31	43.504			
10,600.00	10,296.48	10,679.96	10,296.76	26.20	33.29	-90.06	408.61	-1,404.36	2,101.69	2,052.35	49.34	42.594			
10,700.00	10,300.00	10,780.19	10,300.00	26.73	33.62	-90.05	508.72	-1,405.34	2,101.66	2,051.09	50.58	41.555			
10,800.00	10,300.00	10,880.19	10,300.00	27.40	34.04	-90.05	608.72	-1,406.31	2,101.64	2,049.61	52.03	40.396			
10,900.00	10,300.00	10,980.19	10,300.00	28.18	34.56	-90.05	708.71	-1,407.28	2,101.61	2,047.93	53.68	39.150			
11,000.00	10,300.00	11,080.19	10,300.00	29.07	35.17	-90.05	808.71	-1,408.26	2,101.58	2,046.05	55.53	37.849			
11,100.00	10,300.00	11,180.19	10,300.00	30.05	35.88	-90.05	908.70	-1,409.23	2,101.56	2,044.01	57.54	36.521			
11,200.00	10,300.00	11,280.19	10,300.00	31.10	36.67	-90.05	1,008.70	-1,410.20	2,101.53	2,041.81	59.71	35.193			
11,300.00	10,300.00	11,380.19	10,300.00	32.23	37.54	-90.05	1,108.69	-1,411.18	2,101.50	2,039.48	62.02	33.882			
11,400.00	10,300.00	11,480.19	10,300.00	33.42	38.49	-90.05	1,208.69	-1,412.15	2,101.48	2,037.02	64.46	32.602			
11,500.00	10,300.00	11,580.19	10,300.00	34.66	39.51	-90.05	1,308.68	-1,413.12	2,101.45	2,034.45	67.00	31.365			
11,600.00	10,300.00	11,680.19	10,300.00	35.96	40.58	-90.05	1,408.68	-1,414.10	2,101.42	2,031.78	69.64	30.175			
11,700.00	10,300.00	11,780.19	10,300.00	37.30	41.72	-90.05	1,508.67	-1,415.07	2,101.40	2,029.03	72.37	29.037			
11,800.00	10,300.00	11,880.19	10,300.00	38.67	42.91	-90.05	1,608.67	-1,416.05	2,101.37	2,026.19	75.17	27.953			
11,900.00	10,300.00	11,980.19	10,300.00	40.09	44.14	-90.05	1,708.66	-1,417.02	2,101.34	2,023.29	78.05	26.923			
12,000.00	10,300.00	12,080.19	10,300.00	41.53	45.41	-90.05	1,808.66	-1,417.99	2,101.31	2,020.33	80.99	25.947			
12,100.00	10,300.00	12,180.19	10,300.00	43.00	46.73	-90.05	1,908.65	-1,418.97	2,101.29	2,017.31	83.98	25.022			
12,200.00	10,300.00	12,280.19	10,300.00	44.50	48.08	-90.05	2,008.65	-1,419.94	2,101.26	2,014.24	87.02	24.147			
12,300.00	10,300.00	12,380.19	10,300.00	46.03	49.46	-90.05	2,108.64	-1,420.91	2,101.23	2,011.13	90.10	23.320			
12,400.00	10,300.00	12,480.19	10,300.00	47.57	50.87	-90.05	2,208.64	-1,421.89	2,101.21	2,007.98	93.23	22.538			
12,500.00	10,300.00	12,580.19	10,300.00	49.13	52.30	-90.05	2,308.64	-1,422.86	2,101.18	2,004.79	96.39	21.798			
12,600.00	10,300.00	12,680.19	10,300.00	50.71	53.76	-90.05	2,408.63	-1,423.84	2,101.15	2,001.57	99.59	21.098			
12,700.00	10,300.00	12,780.19	10,300.00	52.30	55.25	-90.05	2,508.63	-1,424.81	2,101.13	1,998.31	102.81	20.436			
12,800.00	10,300.00	12,880.19	10,300.00	53.91	56.75	-90.05	2,608.62	-1,425.78	2,101.10	1,995.04	106.06	19.810			

Anticollision Report

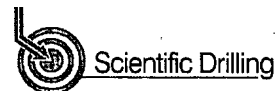


Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design South Bell Lake Unit 6 2BSS - #1H - OH - Plan #1													Offset Site Error:
Survey Program: 0-SDI MWD													0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning		Offset Wellbore Centre		Between Centres		Minimum Separation	Separation Factor
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)		+N/S (usft)	+E/W (usft)	Centres (usft)	Ellipses (usft)	(usft)	
12,900.00	10,300.00	12,980.19	10,300.00	55.53	58.27	-90.05		2,708.62	-1,426.76	2,101.07	1,991.73	109.34	19.216
13,000.00	10,300.00	13,080.19	10,300.00	57.17	59.81	-90.05		2,808.61	-1,427.73	2,101.05	1,988.41	112.64	18.653
13,100.00	10,300.00	13,180.19	10,300.00	58.81	61.36	-90.05		2,908.61	-1,428.70	2,101.02	1,985.06	115.96	18.119
13,200.00	10,300.00	13,280.19	10,300.00	60.47	62.93	-90.05		3,008.60	-1,429.68	2,100.99	1,981.70	119.30	17.611
13,300.00	10,300.00	13,380.19	10,300.00	62.13	64.51	-90.05		3,108.60	-1,430.65	2,100.97	1,978.31	122.65	17.129
13,400.00	10,300.00	13,480.19	10,300.00	63.80	66.11	-90.05		3,208.59	-1,431.62	2,100.94	1,974.92	126.02	16.671
13,500.00	10,300.00	13,580.19	10,300.00	65.48	67.71	-90.05		3,308.59	-1,432.60	2,100.91	1,971.50	129.41	16.235
13,600.00	10,300.00	13,680.19	10,300.00	67.17	69.33	-90.05		3,408.58	-1,433.57	2,100.89	1,968.08	132.81	15.819
13,700.00	10,300.00	13,780.19	10,300.00	68.87	70.96	-90.05		3,508.58	-1,434.55	2,100.86	1,964.64	136.22	15.422
13,800.00	10,300.00	13,880.19	10,300.00	70.57	72.59	-90.05		3,608.57	-1,435.52	2,100.83	1,961.19	139.65	15.044
13,900.00	10,300.00	13,980.19	10,300.00	72.27	74.24	-90.05		3,708.57	-1,436.49	2,100.81	1,957.73	143.08	14.683
14,000.00	10,300.00	14,080.19	10,300.00	73.99	75.89	-90.05		3,808.56	-1,437.47	2,100.78	1,954.25	146.52	14.337
14,100.00	10,300.00	14,180.19	10,300.00	75.70	77.55	-90.05		3,908.56	-1,438.44	2,100.75	1,950.77	149.98	14.007
14,200.00	10,300.00	14,280.19	10,300.00	77.42	79.21	-90.05		4,008.55	-1,439.41	2,100.73	1,947.29	153.44	13.691
14,300.00	10,300.00	14,380.19	10,300.00	79.15	80.89	-90.05		4,108.55	-1,440.39	2,100.70	1,943.79	156.91	13.388
14,400.00	10,300.00	14,480.19	10,300.00	80.88	82.57	-90.05		4,208.55	-1,441.36	2,100.67	1,940.28	160.39	13.097
14,500.00	10,300.00	14,580.19	10,300.00	82.61	84.25	-90.05		4,308.54	-1,442.33	2,100.64	1,936.77	163.87	12.819
14,600.00	10,300.00	14,680.19	10,300.00	84.35	85.95	-90.05		4,408.54	-1,443.31	2,100.62	1,933.25	167.37	12.551
14,700.00	10,300.00	14,780.19	10,300.00	86.09	87.64	-90.05		4,508.53	-1,444.28	2,100.59	1,929.73	170.86	12.294
14,800.00	10,300.00	14,880.19	10,300.00	87.84	89.34	-90.05		4,608.53	-1,445.26	2,100.56	1,926.20	174.37	12.047
14,900.00	10,300.00	14,980.19	10,300.00	89.59	91.05	-90.05		4,708.52	-1,446.23	2,100.54	1,922.66	177.88	11.809
15,000.00	10,300.00	15,080.19	10,300.00	91.34	92.76	-90.05		4,808.52	-1,447.20	2,100.51	1,919.12	181.39	11.580
15,100.00	10,300.00	15,180.19	10,300.00	93.09	94.47	-90.05		4,908.51	-1,448.18	2,100.48	1,915.57	184.91	11.359
15,200.00	10,300.00	15,280.19	10,300.00	94.84	96.19	-90.05		5,008.51	-1,449.15	2,100.46	1,912.02	188.44	11.147
15,300.00	10,300.00	15,380.19	10,300.00	96.60	97.92	-90.05		5,108.50	-1,450.12	2,100.43	1,908.47	191.96	10.942
15,400.00	10,300.00	15,480.19	10,300.00	98.36	99.64	-90.05		5,208.50	-1,451.10	2,100.40	1,904.91	195.50	10.744
15,500.00	10,300.00	15,580.19	10,300.00	100.12	101.37	-90.05		5,308.49	-1,452.07	2,100.38	1,901.34	199.03	10.553
15,600.00	10,300.00	15,680.19	10,300.00	101.89	103.10	-90.05		5,408.49	-1,453.05	2,100.35	1,897.78	202.57	10.368
15,700.00	10,300.00	15,780.19	10,300.00	103.66	104.84	-90.05		5,508.48	-1,454.02	2,100.32	1,894.21	206.12	10.190
15,800.00	10,300.00	15,880.19	10,300.00	105.42	106.57	-90.05		5,608.48	-1,454.99	2,100.30	1,890.63	209.66	10.017
15,900.00	10,300.00	15,980.19	10,300.00	107.19	108.31	-90.05		5,708.47	-1,455.97	2,100.27	1,887.05	213.21	9.850
16,000.00	10,300.00	16,080.19	10,300.00	108.97	110.06	-90.05		5,808.47	-1,456.94	2,100.24	1,883.47	216.77	9.689
16,100.00	10,300.00	16,180.19	10,300.00	110.74	111.80	-90.05		5,908.46	-1,457.91	2,100.22	1,879.89	220.32	9.532
16,200.00	10,300.00	16,280.19	10,300.00	112.51	113.55	-90.05		6,008.46	-1,458.89	2,100.19	1,876.31	223.88	9.381
16,300.00	10,300.00	16,380.19	10,300.00	114.29	115.30	-90.05		6,108.46	-1,459.86	2,100.16	1,872.72	227.44	9.234
16,400.00	10,300.00	16,480.19	10,300.00	116.07	117.05	-90.05		6,208.45	-1,460.83	2,100.14	1,869.13	231.01	9.091
16,500.00	10,300.00	16,580.19	10,300.00	117.85	118.81	-90.05		6,308.45	-1,461.81	2,100.11	1,865.53	234.58	8.953
16,600.00	10,300.00	16,680.19	10,300.00	119.63	120.56	-90.05		6,408.44	-1,462.78	2,100.08	1,861.94	238.14	8.819
16,700.00	10,300.00	16,780.19	10,300.00	121.41	122.32	-90.05		6,508.44	-1,463.76	2,100.06	1,858.34	241.71	8.688
16,800.00	10,300.00	16,880.19	10,300.00	123.19	124.08	-90.05		6,608.43	-1,464.73	2,100.03	1,854.74	245.29	8.561
16,900.00	10,300.00	16,980.19	10,300.00	124.97	125.84	-90.05		6,708.43	-1,465.70	2,100.00	1,851.14	248.86	8.438
17,000.00	10,300.00	17,080.19	10,300.00	126.76	127.61	-90.05		6,808.42	-1,466.68	2,099.97	1,847.54	252.44	8.319
17,100.00	10,300.00	17,180.19	10,300.00	128.54	129.37	-90.05		6,908.42	-1,467.65	2,099.95	1,843.93	256.02	8.202
17,200.00	10,300.00	17,280.19	10,300.00	130.33	131.14	-90.05		7,008.41	-1,468.62	2,099.92	1,840.32	259.60	8.089
17,300.00	10,300.00	17,380.19	10,300.00	132.12	132.91	-90.05		7,108.41	-1,469.60	2,099.89	1,836.71	263.18	7.979
17,400.00	10,300.00	17,480.19	10,300.00	133.91	134.68	-90.05		7,208.40	-1,470.57	2,099.87	1,833.10	266.76	7.872
17,500.00	10,300.00	17,580.19	10,300.00	135.70	136.45	-90.05		7,308.40	-1,471.55	2,099.84	1,829.49	270.35	7.767
17,600.00	10,300.00	17,680.19	10,300.00	137.49	138.22	-90.05		7,408.39	-1,472.52	2,099.81	1,825.88	273.94	7.665
17,700.00	10,300.00	17,780.19	10,300.00	139.28	139.99	-90.05		7,508.39	-1,473.49	2,099.79	1,822.26	277.52	7.566
17,800.00	10,300.00	17,880.19	10,300.00	141.07	141.77	-90.05		7,608.38	-1,474.47	2,099.76	1,818.65	281.11	7.469
17,900.00	10,300.00	17,980.19	10,300.00	142.86	143.54	-90.05		7,708.38	-1,475.44	2,099.73	1,815.03	284.70	7.375
18,000.00	10,300.00	18,080.19	10,300.00	144.66	145.32	-90.05		7,808.37	-1,476.41	2,099.71	1,811.41	288.30	7.283

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey/Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design South Bell Lake Unit 6 2BSS - #1H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre: +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,100.00	10,300.00	18,180.19	10,300.00	146.45	147.10	-90.05	7,908.37	-1,477.39	2,099.68	1,807.79	291.89	7.193		
18,199.19	10,300.00	18,279.38	10,300.00	147.91	148.86	-90.05	8,007.56	-1,478.35	2,099.65	1,804.52	295.13	7.114 SF		

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=23' @ 3625.00usft (Cactus 170)

Coordinates are relative to: #263H

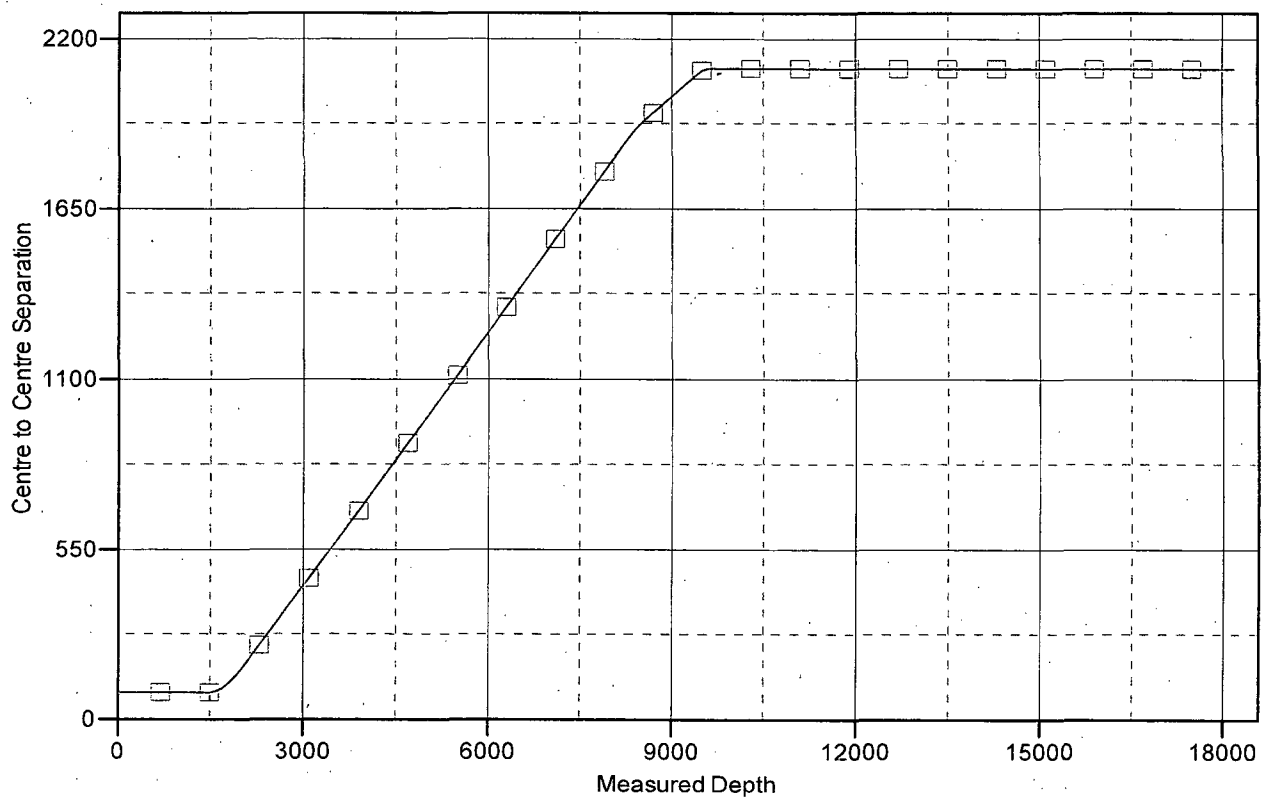
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Central Meridian is 104° 20' 0.000 W

Grid Convergence at Surface is: 0.44°

Ladder Plot



LEGEND

 #1H, OH, Plan #1 V0

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #263H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Reference Site:	Bell Lake Unit South	MD Reference:	KB=23' @ 3625.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#263H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	Midland District
Reference Design:	Plan #1	Offset, TVD Reference:	Offset Datum

Reference Depths are relative to KB=23' @ 3625.00usft (Cactus 170)

Offset Depths are relative to Offset Datum

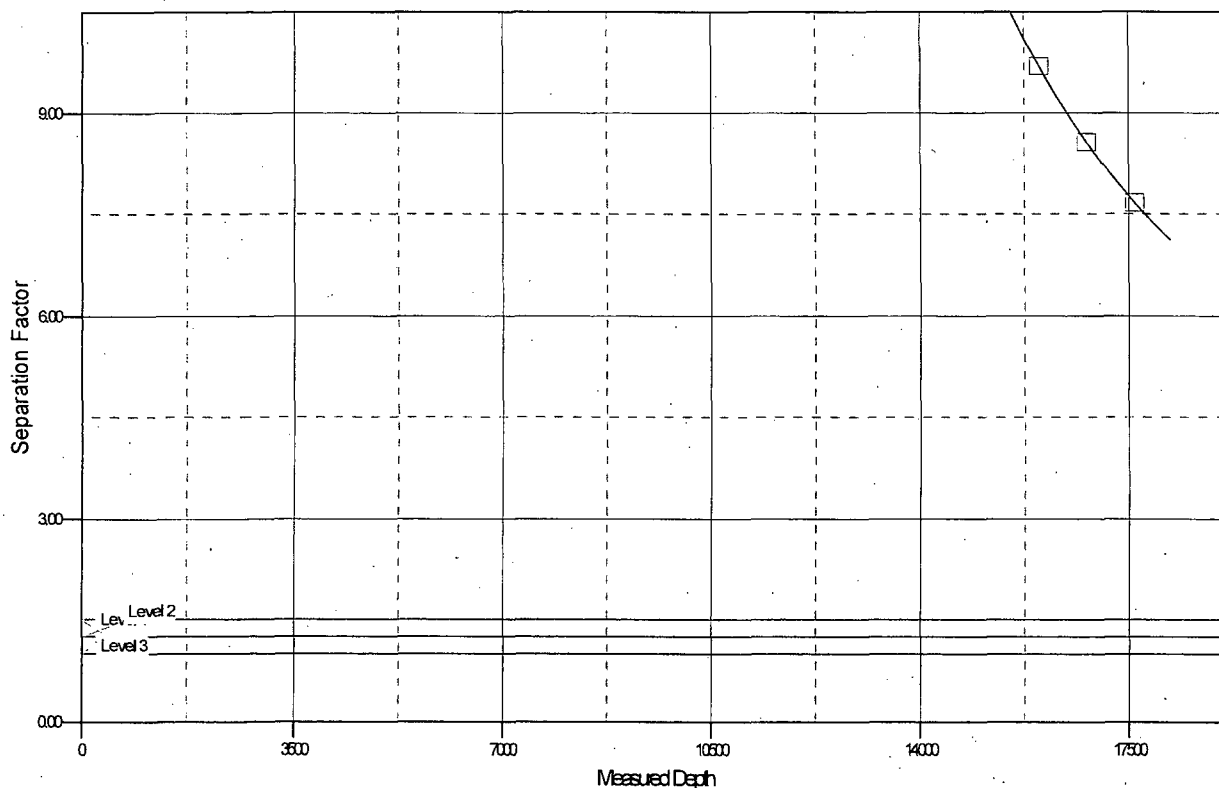
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: #263H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.44°

Separation Factor Plot



LEGEND

 #1H, OH, Plan #1 V0