

KAISER-FRANCIS OIL COMPANY

HOBBS
JAN 25
RECEIVED

Kaiser - Francis Oil Company

Lea Co, NM (Nad 27 NME)

North Bell Lake 2BSS

#1H

OH

Plan: Plan #1

Standard Planning Report

02 November, 2015



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JAN 27 2016



Database:	Midland District	Local Co-ordinate Reference:	Well #1H
Company:	Kaiser - Francis Oil Company	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Project:	Lea Co, NM (Nad 27 NME)	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site:	North Bell Lake 2BSS	North Reference:	Grid
Well:	#1H	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	North Bell Lake 2BSS		
Site Position:	Map	Northing:	494,318.80 usft
From:		Easting:	756,717.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 22.528 N
		Longitude:	103° 30' 7.132 W
		Grid Convergence:	0.44 °

Well	#1H		
Well Position	+N/-S	-8,858.40 usft	Northing:
	+E/-W	-190.50 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 19' 54.887 N
		Longitude:	103° 30' 10.154 W
		Ground Level:	3,456.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	11/2/2015	7.00
		Dip Angle (°)	60.20
		Field Strength (nT)	48,391

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (bearing)
			359.61

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	
9,727.04	0.00	0.00	9,727.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,627.04	90.00	359.61	10,300.00	572.94	-3.87	10.00	10.00	-0.04	359.61	
18,230.77	90.00	359.61	10,300.00	8,176.50	-55.20	0.00	0.00	0.00	0.00	PBHL (#1H)

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Well:	#1H	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
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

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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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,727.04	0.00	0.00	9,727.04	0.00	0.00	0.00	0.00	0.00	0.00
9,750.00	2.30	359.61	9,749.99	0.46	0.00	0.46	10.00	10.00	0.00
9,800.00	7.30	359.61	9,799.80	4.64	-0.03	4.64	10.00	10.00	0.00
9,850.00	12.30	359.61	9,849.06	13.14	-0.09	13.14	10.00	10.00	0.00
9,900.00	17.30	359.61	9,897.39	25.91	-0.17	25.91	10.00	10.00	0.00
9,950.00	22.30	359.61	9,944.42	42.84	-0.29	42.84	10.00	10.00	0.00
10,000.00	27.30	359.61	9,989.79	63.80	-0.43	63.80	10.00	10.00	0.00
10,050.00	32.30	359.61	10,033.17	88.64	-0.60	88.64	10.00	10.00	0.00
10,100.00	37.30	359.61	10,074.21	117.16	-0.79	117.16	10.00	10.00	0.00
10,150.00	42.30	359.61	10,112.62	149.15	-1.01	149.15	10.00	10.00	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)
10,200.00	47.30	359.61	10,148.09	184.37	-1.24	184.37	10.00	10.00	0.00
10,250.00	52.30	359.61	10,180.35	222.54	-1.50	222.55	10.00	10.00	0.00
10,300.00	57.30	359.61	10,209.17	263.38	-1.78	263.39	10.00	10.00	0.00
10,350.00	62.30	359.61	10,234.31	306.58	-2.07	306.59	10.00	10.00	0.00
10,400.00	67.30	359.61	10,255.60	351.81	-2.38	351.81	10.00	10.00	0.00
10,450.00	72.30	359.61	10,272.86	398.71	-2.69	398.72	10.00	10.00	0.00
10,500.00	77.30	359.61	10,285.97	446.95	-3.02	446.96	10.00	10.00	0.00
10,550.00	82.30	359.61	10,294.83	496.14	-3.35	496.15	10.00	10.00	0.00
10,600.00	87.30	359.61	10,299.36	545.92	-3.69	545.93	10.00	10.00	0.00
10,627.04	90.00	359.61	10,300.00	572.94	-3.87	572.96	10.00	10.00	0.00
10,700.00	90.00	359.61	10,300.00	645.90	-4.36	645.92	0.00	0.00	0.00
10,800.00	90.00	359.61	10,300.00	745.90	-5.04	745.92	0.00	0.00	0.00
10,900.00	90.00	359.61	10,300.00	845.90	-5.71	845.92	0.00	0.00	0.00
11,000.00	90.00	359.61	10,300.00	945.90	-6.39	945.92	0.00	0.00	0.00
11,100.00	90.00	359.61	10,300.00	1,045.89	-7.06	1,045.92	0.00	0.00	0.00
11,200.00	90.00	359.61	10,300.00	1,145.89	-7.74	1,145.92	0.00	0.00	0.00
11,300.00	90.00	359.61	10,300.00	1,245.89	-8.41	1,245.92	0.00	0.00	0.00
11,400.00	90.00	359.61	10,300.00	1,345.89	-9.09	1,345.92	0.00	0.00	0.00
11,500.00	90.00	359.61	10,300.00	1,445.88	-9.76	1,445.92	0.00	0.00	0.00
11,600.00	90.00	359.61	10,300.00	1,545.88	-10.44	1,545.92	0.00	0.00	0.00
11,700.00	90.00	359.61	10,300.00	1,645.88	-11.11	1,645.92	0.00	0.00	0.00
11,800.00	90.00	359.61	10,300.00	1,745.88	-11.79	1,745.92	0.00	0.00	0.00
11,900.00	90.00	359.61	10,300.00	1,845.88	-12.46	1,845.92	0.00	0.00	0.00
12,000.00	90.00	359.61	10,300.00	1,945.87	-13.14	1,945.92	0.00	0.00	0.00
12,100.00	90.00	359.61	10,300.00	2,045.87	-13.81	2,045.92	0.00	0.00	0.00
12,200.00	90.00	359.61	10,300.00	2,145.87	-14.49	2,145.92	0.00	0.00	0.00
12,300.00	90.00	359.61	10,300.00	2,245.87	-15.16	2,245.92	0.00	0.00	0.00
12,400.00	90.00	359.61	10,300.00	2,345.86	-15.84	2,345.92	0.00	0.00	0.00
12,500.00	90.00	359.61	10,300.00	2,445.86	-16.51	2,445.92	0.00	0.00	0.00
12,600.00	90.00	359.61	10,300.00	2,545.86	-17.19	2,545.92	0.00	0.00	0.00
12,700.00	90.00	359.61	10,300.00	2,645.86	-17.86	2,645.92	0.00	0.00	0.00
12,800.00	90.00	359.61	10,300.00	2,745.86	-18.54	2,745.92	0.00	0.00	0.00
12,900.00	90.00	359.61	10,300.00	2,845.85	-19.21	2,845.92	0.00	0.00	0.00
13,000.00	90.00	359.61	10,300.00	2,945.85	-19.89	2,945.92	0.00	0.00	0.00
13,100.00	90.00	359.61	10,300.00	3,045.85	-20.56	3,045.92	0.00	0.00	0.00
13,200.00	90.00	359.61	10,300.00	3,145.85	-21.24	3,145.92	0.00	0.00	0.00
13,300.00	90.00	359.61	10,300.00	3,245.84	-21.91	3,245.92	0.00	0.00	0.00
13,400.00	90.00	359.61	10,300.00	3,345.84	-22.59	3,345.92	0.00	0.00	0.00
13,500.00	90.00	359.61	10,300.00	3,445.84	-23.26	3,445.92	0.00	0.00	0.00
13,600.00	90.00	359.61	10,300.00	3,545.84	-23.94	3,545.92	0.00	0.00	0.00
13,700.00	90.00	359.61	10,300.00	3,645.83	-24.61	3,645.92	0.00	0.00	0.00
13,800.00	90.00	359.61	10,300.00	3,745.83	-25.29	3,745.92	0.00	0.00	0.00
13,900.00	90.00	359.61	10,300.00	3,845.83	-25.96	3,845.92	0.00	0.00	0.00
14,000.00	90.00	359.61	10,300.00	3,945.83	-26.64	3,945.92	0.00	0.00	0.00
14,100.00	90.00	359.61	10,300.00	4,045.83	-27.31	4,045.92	0.00	0.00	0.00
14,200.00	90.00	359.61	10,300.00	4,145.82	-27.99	4,145.92	0.00	0.00	0.00
14,300.00	90.00	359.61	10,300.00	4,245.82	-28.66	4,245.92	0.00	0.00	0.00
14,400.00	90.00	359.61	10,300.00	4,345.82	-29.34	4,345.92	0.00	0.00	0.00
14,500.00	90.00	359.61	10,300.00	4,445.82	-30.01	4,445.92	0.00	0.00	0.00
14,600.00	90.00	359.61	10,300.00	4,545.81	-30.69	4,545.92	0.00	0.00	0.00
14,700.00	90.00	359.61	10,300.00	4,645.81	-31.36	4,645.92	0.00	0.00	0.00
14,800.00	90.00	359.61	10,300.00	4,745.81	-32.04	4,745.92	0.00	0.00	0.00
14,900.00	90.00	359.61	10,300.00	4,845.81	-32.71	4,845.92	0.00	0.00	0.00
15,000.00	90.00	359.61	10,300.00	4,945.81	-33.39	4,945.92	0.00	0.00	0.00



Database:	Midland District	Local Co-ordinate Reference:	Well #1H
Company:	Kaiser - Francis Oil Company	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Project:	Lea Co, NM (Nad 27 NME)	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site:	North Bell Lake 2BSS	North Reference:	Grid
Well:	#1H	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)
15,100.00	90.00	359.61	10,300.00	5,045.80	-34.06	5,045.92	0.00	0.00	0.00
15,200.00	90.00	359.61	10,300.00	5,145.80	-34.74	5,145.92	0.00	0.00	0.00
15,300.00	90.00	359.61	10,300.00	5,245.80	-35.41	5,245.92	0.00	0.00	0.00
15,400.00	90.00	359.61	10,300.00	5,345.80	-36.09	5,345.92	0.00	0.00	0.00
15,500.00	90.00	359.61	10,300.00	5,445.79	-36.76	5,445.92	0.00	0.00	0.00
15,600.00	90.00	359.61	10,300.00	5,545.79	-37.44	5,545.92	0.00	0.00	0.00
15,700.00	90.00	359.61	10,300.00	5,645.79	-38.12	5,645.92	0.00	0.00	0.00
15,800.00	90.00	359.61	10,300.00	5,745.79	-38.79	5,745.92	0.00	0.00	0.00
15,900.00	90.00	359.61	10,300.00	5,845.78	-39.47	5,845.92	0.00	0.00	0.00
16,000.00	90.00	359.61	10,300.00	5,945.78	-40.14	5,945.92	0.00	0.00	0.00
16,100.00	90.00	359.61	10,300.00	6,045.78	-40.82	6,045.92	0.00	0.00	0.00
16,200.00	90.00	359.61	10,300.00	6,145.78	-41.49	6,145.92	0.00	0.00	0.00
16,300.00	90.00	359.61	10,300.00	6,245.78	-42.17	6,245.92	0.00	0.00	0.00
16,400.00	90.00	359.61	10,300.00	6,345.77	-42.84	6,345.92	0.00	0.00	0.00
16,500.00	90.00	359.61	10,300.00	6,445.77	-43.52	6,445.92	0.00	0.00	0.00
16,600.00	90.00	359.61	10,300.00	6,545.77	-44.19	6,545.92	0.00	0.00	0.00
16,700.00	90.00	359.61	10,300.00	6,645.77	-44.87	6,645.92	0.00	0.00	0.00
16,800.00	90.00	359.61	10,300.00	6,745.76	-45.54	6,745.92	0.00	0.00	0.00
16,900.00	90.00	359.61	10,300.00	6,845.76	-46.22	6,845.92	0.00	0.00	0.00
17,000.00	90.00	359.61	10,300.00	6,945.76	-46.89	6,945.92	0.00	0.00	0.00
17,100.00	90.00	359.61	10,300.00	7,045.76	-47.57	7,045.92	0.00	0.00	0.00
17,200.00	90.00	359.61	10,300.00	7,145.76	-48.24	7,145.92	0.00	0.00	0.00
17,300.00	90.00	359.61	10,300.00	7,245.75	-48.92	7,245.92	0.00	0.00	0.00
17,400.00	90.00	359.61	10,300.00	7,345.75	-49.59	7,345.92	0.00	0.00	0.00
17,500.00	90.00	359.61	10,300.00	7,445.75	-50.27	7,445.92	0.00	0.00	0.00
17,600.00	90.00	359.61	10,300.00	7,545.75	-50.94	7,545.92	0.00	0.00	0.00
17,700.00	90.00	359.61	10,300.00	7,645.74	-51.62	7,645.92	0.00	0.00	0.00
17,800.00	90.00	359.61	10,300.00	7,745.74	-52.29	7,745.92	0.00	0.00	0.00
17,900.00	90.00	359.61	10,300.00	7,845.74	-52.97	7,845.92	0.00	0.00	0.00
18,000.00	90.00	359.61	10,300.00	7,945.74	-53.64	7,945.92	0.00	0.00	0.00
18,100.00	90.00	359.61	10,300.00	8,045.73	-54.32	8,045.92	0.00	0.00	0.00
18,200.00	90.00	359.61	10,300.00	8,145.73	-54.99	8,145.92	0.00	0.00	0.00
18,230.77	90.00	359.61	10,300.00	8,176.50	-55.20	8,176.69	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (#1H)	0.00	0.00	10,300.00	631.20	-4.20	486,091.60	756,522.50	32° 20' 1.133 N	103° 30' 10.146 W
- hit/miss target									
- Shape									
- plan misses target center by 0.06usft at 10685.30usft MD (10300.00 TVD, 631.20 N, -4.26 E)									
- Point									
PBHL (#1H)	0.00	0.00	10,300.00	8,176.50	-55.20	493,636.90	756,471.50	32° 21' 15.799 N	103° 30' 10.058 W
- plan hits target center									
- Point									

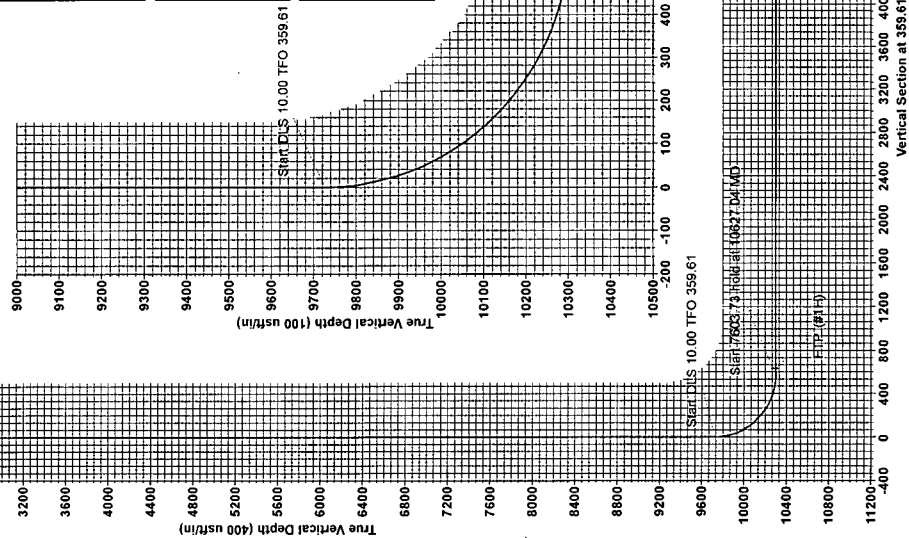
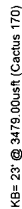
North Bell Lake Unit 6 2BSS #1H
Lea Co, NM (Nad 27 NME)
Northing: (Y) 485460.40
Easting: (X) 756526.70
Plan #1

Scientific Drilling

To convert Magnetic North to Grid, Add 6.56°
To convert True North to Grid, Subtract 0.44°

Azimuths to Grid North
 True North: -0.44°
 Magnetic North: 6.56°

Magnetic Field
 Strength: 48391.60 nT
 Dip Angle: 60.20°
 Date: 11/20/2015
 Model: HDGM

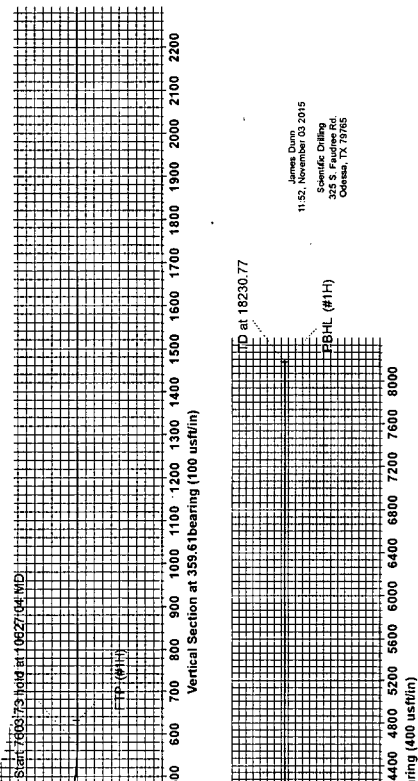


Surface Hole Location:			
	Ground Level:	3456.00	
	Northing	489460.40	
+N-S	Easting	756526.70	32° 19' 34.867 N
+E-W			103° 30' 10.54 W

SECTION DETAILS										Target
MD	Inc	Δ pi	TVD	+N/Ls	+E/W	Dlog	TBase	VSetd		PBHL (#1-H)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9727.04	0.00	0.00	9727.04	0.00	0.00	0.00	0.00	0.00		
10827.04	90.00	359.61	110300.00	572.94	-3.87	10.00	359.61	572.96		
18230.77	90.00	359.61	110300.00	8176.50	-55.20	0.00	0.00	8176.69		

DESIGN TARGET DETAILS					Units In Feet
Name	TVD	+N/S	+E/W	Eastings	
PB-HL (#1H)	10300.00	8176.50	-55.20	756471.50	
FTP (#1H)	10300.00	631.20	-4.20	795522.50	

SITE DETAILS: North Bell Lake Unit 6 2BSS Site Centre Northing: 52253388.05 Easting: 28195200.90 Positional Uncertainty: 0.00 Convergence: 0.00 Local North: Grid		PROJECT DETAILS: Lea Co, NM (Nad 27 NME) Geoidetic 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 #1H, Grid North Latitude: 32° 16' 54.887" N Longitude: 102° 30' 10.154" W		Grid East: 756526.70 Grid North: 485450.40 Scale Factor: 1.000 Geomatic Model: HQGM Sample Date: 02-Nov-15 Magnetic Declination: 7.00° Dip Angle from Horizontal: 60.20° Magnetic Field Strength: 48391	
To convert Magnetic North to Grid, Add 6.58° To convert Magnetic North to True, Add 7.00° East To convert True North to Grid, Subtract 0.44°			



James Dunn
11:52, November 03 2015

KAISER-FRANCIS OIL COMPANY

Extra Copy

HOBBS CO

JAN 25 2016

RECEIVED

Kaiser - Francis Oil Company

Lea Co, NM (Nad 27 NME)

North Bell Lake Unit 6 2BSS

#1H

OH

Plan #1

Anticollision Report

18 January, 2016



Scientific Drilling

www.scientificdrilling.com

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 1/18/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,230.77	Plan #1 (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Summary	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name						
Offset Well: Wellbore: Design						
Bell Lake Unit #22						
Bell Lake Unit #22 - Wellbore #1 - SDI Gyro	13,832.03	10,296.48	238.36	154.18	2.831	CC, ES, SF
North Bell Lake Federal Unit						
#3 - OH - OH	11,358.82	10,281.64	118.60	67.70	2.330	CC, ES, SF
North Bell Lake Unit 6 2BSS						
#2H - OH - Plan #1	18,231.13	10,315.06	938.25	758.15	5.209	CC, ES, SF
#3H - OH - Plan #1	10,974.32	17,944.70	1,301.61	1,122.91	7.283	CC, ES, SF

Bell Lake Unit #22 - Bell Lake Unit #22 - Wellbore #1 - SDI Gyro										Offset Site Error: 0.00 usft			
Survey Program: 89-SDI Standard Keeper 1037										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance						
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
0.00	0.00	0.00	0.00	0.00	0.00	-5.36	3,929.67	-369.03	3,946.98				
100.00	100.00	86.41	86.41	0.09	0.05	-5.37	3,929.68	-369.15	3,946.98	3,946.85	0.13	N/A	
200.00	200.00	184.48	184.48	0.31	0.18	-5.37	3,929.70	-369.72	3,947.06	3,946.63	0.42	9,310.520	
300.00	300.00	294.78	294.78	0.54	0.31	-5.38	3,929.64	-370.11	3,947.04	3,946.31	0.72	5,451.099	
400.00	400.00	394.98	394.97	0.76	0.44	-5.39	3,929.43	-370.45	3,946.86	3,945.83	1.02	3,859.007	
500.00	500.00	520.92	520.91	0.99	0.59	-5.40	3,928.77	-371.14	3,946.40	3,945.04	1.35	2,915.200	
600.00	600.00	679.05	679.01	1.21	0.78	-5.43	3,926.21	-372.94	3,944.93	3,943.20	1.73	2,275.047	
700.00	700.00	933.51	933.08	1.44	1.08	-5.54	3,914.18	-379.50	3,940.16	3,937.93	2.23	1,765.119	
800.00	800.00	1,096.33	1,095.35	1.66	1.28	-5.64	3,902.20	-385.33	3,933.20	3,930.56	2.64	1,490.296	
900.00	900.00	1,227.29	1,225.72	1.88	1.44	-5.73	3,890.80	-390.39	3,924.89	3,921.88	3.01	1,302.412	
1,000.00	1,000.00	1,320.99	1,318.95	2.11	1.55	-5.80	3,882.31	-394.19	3,916.28	3,912.93	3.35	1,170.525	
1,100.00	1,100.00	1,400.00	1,397.61	2.33	1.65	-5.86	3,875.60	-397.46	3,908.21	3,904.55	3.66	1,067.585	
1,200.00	1,200.00	1,461.72	1,459.10	2.56	1.73	-5.90	3,870.83	-399.94	3,900.86	3,896.91	3.96	986.116	
1,300.00	1,300.00	1,539.63	1,536.76	2.78	1.82	-5.95	3,865.38	-402.72	3,894.25	3,889.98	4.27	912.080	
1,400.00	1,400.00	1,624.14	1,621.04	3.01	1.93	-6.00	3,859.82	-405.35	3,888.03	3,883.44	4.59	846.695	
1,500.00	1,500.00	1,700.00	1,696.75	3.23	2.03	-6.03	3,855.26	-407.24	3,882.33	3,877.42	4.91	791.408	
1,600.00	1,600.00	1,768.40	1,765.04	3.46	2.11	-6.06	3,851.68	-408.65	3,877.34	3,872.13	5.21	744.103	
1,700.00	1,700.00	1,843.09	1,839.64	3.68	2.21	-6.08	3,848.40	-409.99	3,873.15	3,867.62	5.52	701.237	
1,800.00	1,800.00	1,923.22	1,919.70	3.91	2.31	-6.10	3,845.31	-411.18	3,869.47	3,863.63	5.84	662.314	
1,900.00	1,900.00	2,000.00	1,996.44	4.13	2.40	-6.12	3,842.80	-412.17	3,866.36	3,860.21	6.16	627.884	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference	Grid
Reference Well:	#1H	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
Bell Lake Unit #22 - Bell Lake Unit #22 - Wellbore #1 - SDI Gyro													0.00 usft
Survey/Program: 89-SDI Standard/Keeper 103													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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)	Separation (usft)	Factor	
2,000.00	2,000.00	2,069.89	2,066.30	4.36	2.49	-6.14	3,841.02	-412.88	3,863.94	3,857.48	6.47	597.655	
2,100.00	2,100.00	2,148.77	2,145.17	4.58	2.59	-6.15	3,839.63	-413.40	3,862.24	3,855.46	6.78	569.247	
2,200.00	2,200.00	2,233.66	2,230.05	4.81	2.69	-6.15	3,838.50	-413.65	3,860.95	3,853.83	7.11	542.729	
2,300.00	2,300.00	2,317.69	2,314.07	5.03	2.77	-6.15	3,837.77	-413.52	3,860.08	3,852.64	7.44	518.801	
2,400.00	2,400.00	2,400.00	2,396.38	5.26	2.82	-6.14	3,837.39	-413.08	3,859.57	3,851.81	7.75	497.877	
2,500.00	2,500.00	2,492.96	2,489.34	5.48	2.84	-6.13	3,837.27	-412.42	3,859.37	3,851.33	8.04	480.102	
2,508.38	2,508.38	2,500.00	2,496.38	5.50	2.84	-6.13	3,837.27	-412.37	3,859.37	3,851.31	8.06	478.703	
2,600.00	2,600.00	2,581.04	2,577.42	5.71	2.83	-6.12	3,837.46	-411.69	3,859.49	3,851.19	8.30	465.166	
2,700.00	2,700.00	2,677.56	2,673.93	5.93	2.81	-6.11	3,837.90	-410.66	3,859.83	3,851.28	8.55	451.550	
2,800.00	2,800.00	2,775.46	2,771.83	6.16	2.80	-6.09	3,838.41	-409.46	3,860.22	3,851.42	8.80	438.688	
2,900.00	2,900.00	2,871.28	2,867.63	6.38	2.79	-6.06	3,839.03	-407.89	3,860.69	3,851.63	9.05	426.407	
3,000.00	3,000.00	2,970.84	2,967.15	6.60	2.80	-6.03	3,839.83	-405.47	3,861.24	3,851.92	9.32	414.517	
3,100.00	3,100.00	3,079.28	3,075.53	6.83	2.82	-5.97	3,840.72	-401.81	3,861.70	3,852.11	9.59	402.801	
3,200.00	3,200.00	3,187.87	3,184.03	7.05	2.85	-5.91	3,841.38	-397.63	3,861.90	3,852.04	9.87	391.419	
3,300.00	3,300.00	3,288.78	3,284.86	7.28	2.89	-5.85	3,841.87	-393.62	3,861.98	3,851.84	10.15	380.674	
3,400.00	3,400.00	3,386.85	3,382.86	7.50	2.93	-5.79	3,842.38	-389.68	3,862.09	3,851.67	10.42	370.540	
3,500.00	3,500.00	3,481.09	3,477.02	7.73	2.97	-5.74	3,842.93	-386.06	3,862.29	3,851.60	10.70	361.084	
3,600.00	3,600.00	3,579.62	3,575.50	7.95	3.02	-5.69	3,843.57	-382.87	3,862.61	3,851.64	10.97	352.057	
3,700.00	3,700.00	3,679.43	3,675.28	8.18	3.07	-5.65	3,844.16	-380.20	3,862.93	3,851.69	11.25	343.481	
3,800.00	3,800.00	3,777.69	3,773.50	8.40	3.12	-5.61	3,844.74	-377.76	3,863.28	3,851.76	11.52	335.356	
3,900.00	3,900.00	3,877.84	3,873.62	8.63	3.18	-5.58	3,845.36	-375.39	3,863.66	3,851.87	11.79	327.583	
4,000.00	4,000.00	3,976.94	3,972.69	8.85	3.24	-5.54	3,845.96	-373.08	3,864.04	3,851.97	12.07	320.172	
4,100.00	4,100.00	4,073.35	4,069.08	9.08	3.30	-5.51	3,846.57	-371.11	3,864.48	3,852.14	12.34	313.177	
4,200.00	4,200.00	4,172.66	4,168.37	9.30	3.37	-5.48	3,847.25	-369.41	3,864.99	3,852.38	12.61	306.507	
4,300.00	4,300.00	4,270.72	4,266.42	9.53	3.43	-5.46	3,847.91	-367.92	3,865.51	3,852.64	12.88	300.168	
4,400.00	4,400.00	4,369.68	4,365.36	9.75	3.50	-5.44	3,848.61	-366.55	3,866.09	3,852.95	13.15	294.098	
4,500.00	4,500.00	4,469.21	4,464.89	9.98	3.56	-5.42	3,849.34	-365.13	3,866.68	3,853.27	13.41	288.248	
4,600.00	4,600.00	4,566.26	4,561.92	10.20	3.66	-5.39	3,850.03	-363.26	3,867.13	3,853.43	13.70	282.295	
4,700.00	4,700.00	4,813.47	4,809.02	10.43	3.89	-5.30	3,847.46	-357.05	3,865.89	3,851.79	14.10	274.112	
4,800.00	4,800.00	4,909.38	4,904.83	10.65	4.00	-5.26	3,844.79	-353.85	3,862.80	3,848.38	14.42	267.889	
4,900.00	4,900.00	5,000.00	4,995.38	10.88	4.11	-5.22	3,842.42	-351.22	3,859.94	3,845.20	14.73	262.013	
5,000.00	5,000.00	5,087.93	5,083.27	11.10	4.21	-5.19	3,840.34	-349.03	3,857.35	3,842.30	15.04	256.422	
5,100.00	5,100.00	5,178.97	5,174.26	11.32	4.32	-5.17	3,838.37	-347.03	3,854.99	3,839.64	15.36	251.005	
5,200.00	5,200.00	5,271.76	5,267.01	11.55	4.43	-5.14	3,836.54	-345.27	3,852.85	3,837.18	15.68	245.778	
5,300.00	5,300.00	5,368.70	5,363.92	11.77	4.55	-5.12	3,834.76	-343.49	3,850.86	3,834.86	16.00	240.709	
5,400.00	5,400.00	5,466.29	5,461.47	12.00	4.66	-5.09	3,833.02	-341.58	3,848.91	3,832.59	16.32	235.847	
5,500.00	5,500.00	5,561.58	5,556.74	12.22	4.78	-5.07	3,831.41	-339.76	3,847.06	3,830.42	16.64	231.213	
5,600.00	5,600.00	5,658.28	5,653.41	12.45	4.89	-5.04	3,829.88	-338.01	3,845.33	3,828.37	16.96	226.745	
5,700.00	5,700.00	5,758.13	5,753.23	12.67	5.02	-5.02	3,828.35	-336.19	3,843.64	3,826.35	17.28	222.406	
5,800.00	5,800.00	5,857.69	5,852.76	12.90	5.14	-4.99	3,826.81	-334.36	3,841.94	3,824.33	17.60	218.232	
5,900.00	5,900.00	5,956.58	5,951.62	13.12	5.26	-4.97	3,825.31	-332.53	3,840.27	3,822.34	17.93	214.220	
6,000.00	6,000.00	6,055.30	6,050.31	13.35	5.38	-4.94	3,823.85	-330.66	3,838.62	3,820.38	18.25	210.363	
6,100.00	6,100.00	6,152.58	6,147.56	13.57	5.50	-4.92	3,822.46	-328.72	3,837.03	3,818.46	18.57	206.675	
6,200.00	6,200.00	6,248.48	6,243.44	13.80	5.61	-4.89	3,821.18	-326.80	3,835.53	3,816.65	18.88	203.144	
6,300.00	6,300.00	6,345.14	6,340.08	14.02	5.73	-4.86	3,819.99	-324.92	3,834.14	3,814.94	19.20	199.734	
6,400.00	6,400.00	6,443.77	6,438.68	14.25	5.85	-4.84	3,818.82	-323.11	3,832.80	3,813.29	19.51	196.418	
6,500.00	6,500.00	6,545.11	6,539.99	14.47	5.98	-4.81	3,817.63	-321.29	3,831.47	3,811.64	19.83	193.180	
6,600.00	6,600.00	6,646.71	6,641.57	14.70	6.10	-4.78	3,816.37	-319.37	3,830.08	3,809.93	20.15	190.039	
6,700.00	6,700.00	6,746.22	6,741.05	14.92	6.23	-4.76	3,815.14	-317.48	3,828.69	3,808.22	20.47	187.016	
6,800.00	6,800.00	6,846.55	6,841.35	15.15	6.35	-4.73	3,813.90	-315.53	3,827.30	3,806.51	20.79	184.080	
6,900.00	6,900.00	6,944.18	6,938.96	15.37	6.47	-4.70	3,812.69	-313.74	3,825.92	3,804.81	21.11	181.251	
7,000.00	7,000.00	7,040.08	7,034.84	15.60	6.59	-4.68	3,811.62	-312.05	3,824.65	3,803.23	21.42	178.530	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 Bell Lake Unit #22 - Bell Lake Unit #22 - Wellbore #1 - SDI Gyro													Offset Site Error
Survey Program 89-SDI Standard Keeper 103													Offset Well Error
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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	
7,100.00	7,100.00	7,139.71	7,134.45	15.82	6.72	-4.65	3,810.56	-310.21	3,823.45	3,801.71	21.74	175.876	
7,200.00	7,200.00	7,243.01	7,237.72	16.04	6.85	-4.63	3,809.42	-308.29	3,822.20	3,800.14	22.06	173.266	
7,300.00	7,300.00	7,346.01	7,340.70	16.27	6.97	-4.60	3,808.16	-306.49	3,820.84	3,798.46	22.38	170.703	
7,400.00	7,400.00	7,445.30	7,439.97	16.49	7.10	-4.58	3,806.92	-304.93	3,819.47	3,796.76	22.71	168.218	
7,500.00	7,500.00	7,548.91	7,543.56	16.72	7.23	-4.56	3,805.63	-303.26	3,818.10	3,795.06	23.03	165.776	
7,600.00	7,600.00	7,655.13	7,649.74	16.94	7.36	-4.53	3,804.14	-301.15	3,816.54	3,793.18	23.36	163.379	
7,700.00	7,700.00	7,755.91	7,750.50	17.17	7.49	-4.50	3,802.61	-299.50	3,814.90	3,791.21	23.69	161.055	
7,800.00	7,800.00	7,855.32	7,849.89	17.39	7.62	-4.48	3,801.10	-298.01	3,813.27	3,789.25	24.02	158.786	
7,900.00	7,900.00	7,955.66	7,950.21	17.62	7.74	-4.46	3,799.58	-296.60	3,811.64	3,787.30	24.35	156.560	
8,000.00	8,000.00	8,053.71	8,048.24	17.84	7.87	-4.45	3,798.07	-295.43	3,810.02	3,785.34	24.68	154.396	
8,100.00	8,100.00	8,153.91	8,148.42	18.07	7.99	-4.43	3,796.61	-294.17	3,808.46	3,783.46	25.01	152.280	
8,200.00	8,200.00	8,256.34	8,250.83	18.29	8.12	-4.41	3,795.04	-292.82	3,806.84	3,781.49	25.34	150.203	
8,300.00	8,300.00	8,353.72	8,348.19	18.52	8.25	-4.40	3,793.53	-291.61	3,805.20	3,779.52	25.68	148.206	
8,400.00	8,400.00	8,449.33	8,443.79	18.74	8.37	-4.38	3,792.16	-290.49	3,803.68	3,777.68	26.00	146.275	
8,500.00	8,500.00	8,546.50	8,540.94	18.97	8.49	-4.36	3,790.86	-289.30	3,802.26	3,775.92	26.33	144.399	
8,600.00	8,600.00	8,645.69	8,640.11	19.19	8.62	-4.34	3,789.60	-287.92	3,800.88	3,774.23	26.66	142.574	
8,700.00	8,700.00	8,745.47	8,739.87	19.42	8.75	-4.33	3,788.33	-286.55	3,799.51	3,772.52	26.99	140.793	
8,800.00	8,800.00	8,844.84	8,839.23	19.64	8.87	-4.31	3,787.09	-285.23	3,798.16	3,770.84	27.31	139.057	
8,900.00	8,900.00	8,943.04	8,937.41	19.87	9.00	-4.29	3,785.87	-283.78	3,796.82	3,769.18	27.64	137.378	
9,000.00	9,000.00	9,038.84	9,033.20	20.09	9.12	-4.27	3,784.79	-282.34	3,795.57	3,767.62	27.96	135.768	
9,100.00	9,100.00	9,134.58	9,128.91	20.32	9.24	-4.24	3,783.81	-280.82	3,794.43	3,766.16	28.27	134.214	
9,200.00	9,200.00	9,229.55	9,223.87	20.54	9.36	-4.22	3,782.96	-279.31	3,793.42	3,764.84	28.58	132.718	
9,300.00	9,300.00	9,325.85	9,320.15	20.77	9.48	-4.20	3,782.22	-277.75	3,792.54	3,763.65	28.89	131.267	
9,400.00	9,400.00	9,426.40	9,420.69	20.99	9.61	-4.18	3,781.48	-276.13	3,791.69	3,762.48	29.20	129.839	
9,500.00	9,500.00	9,526.57	9,520.84	21.21	9.73	-4.15	3,780.73	-274.41	3,790.81	3,761.30	29.51	128.445	
9,600.00	9,600.00	9,625.62	9,619.87	21.44	9.86	-4.13	3,780.02	-272.70	3,789.97	3,760.15	29.82	127.088	
9,700.00	9,700.00	9,728.31	9,722.55	21.66	9.99	-4.10	3,779.22	-271.05	3,789.09	3,758.95	30.14	125.736	
9,800.00	9,799.80	9,827.43	9,821.65	21.89	10.11	-4.03	3,778.43	-269.48	3,788.55	3,757.24	30.31	124.822	
9,900.00	9,897.39	9,920.53	9,914.73	22.10	10.23	-3.88	3,777.74	-268.03	3,787.50	3,755.53	29.97	125.518	
10,000.00	9,989.79	10,005.15	9,999.35	22.31	10.34	-4.19	3,777.25	-266.85	3,786.06	3,753.90	29.16	127.699	
10,100.00	10,074.21	10,084.15	10,078.34	22.54	10.43	-4.73	3,776.91	-265.94	3,785.38	3,753.14	27.94	131.315	
10,200.00	10,148.09	10,154.57	10,148.76	22.82	10.52	-5.64	3,776.68	-265.26	3,784.03	3,751.60	26.43	136.296	
10,300.00	10,209.17	10,214.74	10,208.93	23.17	10.59	-7.22	3,776.53	-264.69	3,782.99	3,750.22	24.77	142.218	
10,400.00	10,255.60	10,264.53	10,258.71	23.61	10.66	-10.34	3,776.38	-264.19	3,782.00	3,748.84	23.33	147.234	
10,500.00	10,285.97	10,296.82	10,291.00	24.15	10.70	-18.41	3,776.25	-263.84	3,781.11	3,747.50	23.25	143.657	
10,600.00	10,299.36	10,310.17	10,304.35	24.80	10.71	-60.37	3,776.19	-263.69	3,780.77	3,746.69	32.08	101.031	
10,700.00	10,300.00	10,310.37	10,304.55	25.54	10.71	-93.98	3,776.19	-263.68	3,780.05	3,745.70	35.36	88.840	
10,800.00	10,300.00	10,309.92	10,304.10	26.38	10.71	-93.87	3,776.19	-263.69	3,779.35	3,744.84	36.27	83.845	
10,900.00	10,300.00	10,309.47	10,303.65	27.32	10.71	-93.76	3,776.19	-263.69	3,778.67	3,744.09	37.29	78.895	
11,000.00	10,300.00	10,309.02	10,303.20	28.34	10.71	-93.65	3,776.20	-263.70	3,777.91	3,743.33	38.39	74.040	
11,100.00	10,300.00	10,308.57	10,302.75	29.45	10.71	-93.54	3,776.20	-263.70	3,777.28	3,742.57	39.56	69.320	
11,200.00	10,300.00	10,308.12	10,302.30	30.62	10.71	-93.44	3,776.20	-263.71	3,776.77	3,741.81	40.81	64.763	
11,300.00	10,300.00	10,307.68	10,301.85	31.85	10.71	-93.33	3,776.20	-263.71	3,776.20	3,741.05	42.11	60.389	
11,400.00	10,300.00	10,307.23	10,301.41	33.14	10.71	-93.22	3,776.20	-263.72	3,775.66	3,740.29	43.48	56.208	
11,500.00	10,300.00	10,306.78	10,300.96	34.47	10.71	-93.11	3,776.21	-263.72	3,775.11	3,739.53	44.89	52.226	
11,600.00	10,300.00	10,306.33	10,300.51	35.85	10.71	-93.01	3,776.21	-263.73	3,774.66	3,738.77	46.34	48.442	
11,700.00	10,300.00	10,305.89	10,300.07	37.27	10.71	-92.90	3,776.21	-263.73	3,774.21	3,738.01	47.83	44.853	
11,800.00	10,300.00	10,305.44	10,299.62	38.72	10.71	-92.79	3,776.21	-263.74	3,773.76	3,737.25	49.35	41.454	
11,900.00	10,300.00	10,305.00	10,299.18	40.20	10.71	-92.69	3,776.21	-263.74	3,773.31	3,736.49	50.91	38.237	
12,000.00	10,300.00	10,304.55	10,298.73	41.71	10.71	-92.58	3,776.22	-263.75	3,772.86	3,735.73	52.49	35.194	
12,100.00	10,300.00	10,304.11	10,298.29	43.24	10.70	-92.47	3,776.22	-263.75	3,772.41	3,734.97	54.10	32.316	
12,200.00	10,300.00	10,303.67	10,297.84	44.79	10.70	-92.37	3,776.22	-263.76	3,771.96	3,734.21	55.73	29.595	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 Bell Lake Unit #22 - Bell Lake Unit #22 - Wellbore #1 - SDI Gyro													Offset Site Error	0.00 usft	
Survey Program: 89-SDI Standard/Keeper 103													Offset Well Error	0.00 usft	
Reference		Offset		Semi Major Axis		Distance		Between		Minimum		Separation		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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
12,300.00	10,300.00	10,303.22	10,297.40	46.37	10.70	-92.26	3,776.22	-263.76	1,550.44	1,493.06	57.38	27.021			
12,400.00	10,300.00	10,302.78	10,296.96	47.96	10.70	-92.15	3,776.22	-263.77	1,451.72	1,392.67	59.05	24.586			
12,500.00	10,300.00	10,302.34	10,296.52	49.57	10.70	-92.05	3,776.23	-263.77	1,353.17	1,292.44	60.73	22.282			
12,600.00	10,300.00	10,301.90	10,296.08	51.19	10.70	-91.94	3,776.23	-263.78	1,254.86	1,192.43	62.43	20.101			
12,700.00	10,300.00	10,301.45	10,295.63	52.82	10.70	-91.84	3,776.23	-263.78	1,156.84	1,092.70	64.14	18.037			
12,800.00	10,300.00	10,301.01	10,295.19	54.47	10.70	-91.73	3,776.23	-263.79	1,059.19	993.33	65.86	16.083			
12,900.00	10,300.00	10,300.57	10,294.75	56.13	10.70	-91.62	3,776.23	-263.79	962.01	894.42	67.59	14.233			
13,000.00	10,300.00	10,300.13	10,294.31	57.80	10.70	-91.52	3,776.23	-263.80	865.49	796.15	69.34	12.483			
13,100.00	10,300.00	10,299.69	10,293.87	59.47	10.70	-91.41	3,776.24	-263.80	769.85	698.76	71.09	10.830			
13,200.00	10,300.00	10,299.25	10,293.43	61.16	10.70	-91.30	3,776.24	-263.81	675.47	602.63	72.85	9.272			
13,300.00	10,300.00	10,298.80	10,292.98	62.85	10.70	-91.20	3,776.24	-263.81	582.98	508.36	74.62	7.813			
13,400.00	10,300.00	10,298.36	10,292.54	64.55	10.70	-91.09	3,776.24	-263.82	493.41	417.02	76.39	6.459			
13,500.00	10,300.00	10,297.92	10,292.10	66.26	10.70	-90.99	3,776.24	-263.82	408.72	330.55	78.17	5.228			
13,600.00	10,300.00	10,297.49	10,291.67	67.97	10.70	-90.88	3,776.25	-263.83	332.64	252.68	79.96	4.160			
13,700.00	10,300.00	10,297.05	10,291.23	69.69	10.70	-90.78	3,776.25	-263.83	272.48	190.72	81.75	3.333			
13,800.00	10,300.00	10,296.62	10,290.80	71.41	10.70	-90.67	3,776.25	-263.84	240.50	156.95	83.55	2.878			
13,832.03	10,300.00	10,296.48	10,290.66	71.97	10.70	-90.64	3,776.25	-263.84	238.36	154.18	84.18	2.831	CC, ES, SF		
13,900.00	10,300.00	10,296.18	10,290.36	73.14	10.69	-90.57	3,776.25	-263.84	247.86	162.50	85.36	2.904			
14,000.00	10,300.00	10,295.75	10,289.93	74.87	10.69	-90.46	3,776.25	-263.85	291.59	204.43	87.16	3.345			
14,100.00	10,300.00	10,295.32	10,289.50	76.61	10.69	-90.36	3,776.26	-263.85	358.64	269.66	88.97	4.031			
14,200.00	10,300.00	10,294.90	10,289.08	78.35	10.69	-90.26	3,776.26	-263.86	438.42	347.63	90.79	4.829			
14,300.00	10,300.00	10,294.47	10,288.65	80.10	10.69	-90.16	3,776.26	-263.86	525.17	432.57	92.61	5.671			
14,400.00	10,300.00	10,294.05	10,288.23	81.84	10.69	-90.05	3,776.26	-263.87	615.95	521.53	94.43	6.523			
14,500.00	10,300.00	10,293.63	10,287.81	83.60	10.69	-89.95	3,776.26	-263.87	709.22	612.97	96.25	7.368			
14,600.00	10,300.00	10,293.20	10,287.38	85.35	10.69	-89.85	3,776.26	-263.88	804.10	706.02	98.08	8.198			
14,700.00	10,300.00	10,292.79	10,286.97	87.11	10.69	-89.75	3,776.27	-263.88	900.10	800.19	99.91	9.009			
14,800.00	10,300.00	10,292.37	10,286.55	88.87	10.69	-89.65	3,776.27	-263.89	996.88	895.14	101.74	9.798			
14,900.00	10,300.00	10,291.95	10,286.13	90.63	10.69	-89.55	3,776.27	-263.89	1,094.24	990.66	103.58	10.564			
15,000.00	10,300.00	10,291.54	10,285.72	92.39	10.69	-89.45	3,776.27	-263.89	1,192.04	1,086.62	105.41	11.308			
15,100.00	10,300.00	10,291.13	10,285.31	94.16	10.69	-89.35	3,776.27	-263.90	1,290.17	1,182.92	107.25	12.029			
15,200.00	10,300.00	10,290.72	10,284.90	95.93	10.69	-89.25	3,776.27	-263.90	1,388.57	1,279.48	109.09	12.728			
15,300.00	10,300.00	10,290.31	10,284.49	97.70	10.69	-89.16	3,776.28	-263.91	1,487.18	1,376.25	110.94	13.406			
15,400.00	10,300.00	10,289.90	10,284.08	99.47	10.69	-89.06	3,776.28	-263.91	1,585.97	1,473.19	112.78	14.063			
15,500.00	10,300.00	10,289.49	10,283.67	101.25	10.69	-88.96	3,776.28	-263.92	1,684.90	1,570.28	114.63	14.699			
15,600.00	10,300.00	10,289.09	10,283.27	103.02	10.69	-88.86	3,776.28	-263.92	1,783.95	1,667.48	116.47	15.317			
15,700.00	10,300.00	10,288.68	10,282.87	104.80	10.69	-88.77	3,776.28	-263.93	1,883.10	1,764.78	118.32	15.915			
15,800.00	10,300.00	10,288.28	10,282.46	106.58	10.69	-88.67	3,776.28	-263.93	1,982.34	1,862.17	120.17	16.496			
15,900.00	10,300.00	10,287.88	10,282.06	108.36	10.68	-88.57	3,776.29	-263.94	2,081.65	1,959.63	122.02	17.060			
16,000.00	10,300.00	10,287.49	10,281.67	110.15	10.68	-88.48	3,776.29	-263.94	2,181.02	2,057.15	123.87	17.607			
16,100.00	10,300.00	10,287.09	10,281.27	111.93	10.68	-88.38	3,776.29	-263.94	2,280.44	2,154.72	125.72	18.139			
16,200.00	10,300.00	10,286.69	10,280.87	113.71	10.68	-88.29	3,776.29	-263.95	2,379.92	2,252.34	127.57	18.655			
16,300.00	10,300.00	10,286.30	10,280.48	115.50	10.68	-88.19	3,776.29	-263.95	2,479.43	2,350.01	129.43	19.157			
16,400.00	10,300.00	10,285.91	10,280.09	117.29	10.68	-88.10	3,776.29	-263.96	2,578.99	2,447.71	131.28	19.645			
16,500.00	10,300.00	10,285.52	10,279.70	119.08	10.68	-88.01	3,776.30	-263.96	2,678.58	2,545.44	133.14	20.119			
16,600.00	10,300.00	10,285.13	10,279.31	120.87	10.68	-87.91	3,776.30	-263.97	2,778.19	2,643.20	134.99	20.580			
16,700.00	10,300.00	10,284.74	10,278.92	122.66	10.68	-87.82	3,776.30	-263.97	2,877.84	2,740.99	136.85	21.029			
16,800.00	10,300.00	10,284.35	10,278.53	124.45	10.68	-87.73	3,776.30	-263.97	2,977.50	2,838.80	138.71	21.466			
16,900.00	10,300.00	10,283.97	10,278.15	126.24	10.68	-87.63	3,776.30	-263.98	3,077.19	2,936.63	140.56	21.892			
17,000.00	10,300.00	10,283.58	10,277.76	128.03	10.68	-87.54	3,776.30	-263.98	3,176.90	3,034.48	142.42	22.306			
17,100.00	10,300.00	10,283.20	10,277.38	129.83	10.68	-87.45	3,776.30	-263.99	3,276.62	3,132.35	144.28	22.710			
17,200.00	10,300.00	10,282.82	10,277.00	131.62	10.68	-87.36	3,776.31	-263.99	3,376.37	3,230.23	146.14	23.104			
17,300.00	10,300.00	10,282.44	10,276.62	133.42	10.68	-87.27	3,776.31	-264.00	3,476.12	3,328.13	148.00	23.488			

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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: Bell Lake Unit #22 - Bell Lake Unit #22 - Wellbore #1 - SDI Gyro												Offset Site Error:	0.00 usft
Survey Program: 89-SDI Standard Keeper 103												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	Warning
17,400.00	10,300.00	10,282.06	10,276.24	135.21	10.68	-87.18	3,776.31	-264.00	3,575.89	3,426.04	149.85	23.862	
17,500.00	10,300.00	10,281.69	10,275.87	137.01	10.68	-87.09	3,776.31	-264.00	3,675.68	3,523.96	151.71	24.228	
17,600.00	10,300.00	10,281.31	10,275.49	138.81	10.68	-87.00	3,776.31	-264.01	3,775.47	3,621.90	153.57	24.584	
17,700.00	10,300.00	10,280.94	10,275.12	140.61	10.68	-86.91	3,776.31	-264.01	3,875.28	3,719.84	155.43	24.932	
17,800.00	10,300.00	10,280.56	10,274.74	142.40	10.68	-86.82	3,776.32	-264.02	3,975.09	3,817.80	157.29	25.272	
17,900.00	10,300.00	10,280.19	10,274.37	144.20	10.68	-86.73	3,776.32	-264.02	4,074.91	3,915.76	159.15	25.604	
18,000.00	10,300.00	10,279.82	10,274.00	146.00	10.67	-86.64	3,776.32	-264.02	4,174.75	4,013.74	161.01	25.928	
18,100.00	10,300.00	10,279.45	10,273.64	147.81	10.67	-86.55	3,776.32	-264.03	4,274.59	4,111.72	162.87	26.245	
18,200.00	10,300.00	10,279.09	10,273.27	149.61	10.67	-86.47	3,776.32	-264.03	4,374.43	4,209.70	164.73	26.555	
18,231.13	10,300.00	10,278.97	10,273.15	150.17	10.67	-86.44	3,776.32	-264.03	4,405.52	4,240.21	165.31	26.650	

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Federal Unit - #3 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Control N/S (usft)	Offset Wellbore Control E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	5.73	1,297.23	130.19	1,303.95				
100.00	100.00	78.06	78.06	0.09	0.10	5.73	1,297.20	130.19	1,303.71	1,303.52	0.19	6,854.759	
200.00	200.00	178.44	178.44	0.31	0.32	5.73	1,297.09	130.24	1,303.61	1,302.97	0.63	2,053.140	
300.00	300.00	278.07	278.07	0.54	0.57	5.74	1,296.97	130.37	1,303.51	1,302.40	1.11	1,177.444	
400.00	400.00	378.60	378.60	0.76	0.83	5.74	1,296.87	130.47	1,303.41	1,301.82	1.59	818.351	
500.00	500.00	478.14	478.14	0.99	1.10	5.75	1,296.74	130.55	1,303.30	1,301.22	2.08	626.404	
600.00	600.00	578.10	578.09	1.21	1.35	5.75	1,296.66	130.57	1,303.22	1,300.66	2.56	508.514	
700.00	700.00	683.40	683.40	1.44	1.55	5.73	1,296.46	129.98	1,302.97	1,299.99	2.99	436.075	
800.00	800.00	786.81	796.74	1.66	1.70	5.58	1,295.69	126.59	1,302.01	1,298.65	3.36	387.395	
900.00	900.00	900.00	899.80	1.88	1.86	5.36	1,294.48	121.34	1,300.35	1,296.61	3.74	347.304	
1,000.00	1,000.00	998.15	997.80	2.11	2.03	5.13	1,293.30	116.08	1,298.66	1,294.52	4.14	313.448	
1,100.00	1,100.00	1,097.40	1,096.91	2.33	2.23	4.90	1,292.20	110.82	1,297.09	1,292.53	4.56	284.415	
1,200.00	1,200.00	1,197.33	1,196.68	2.56	2.43	4.67	1,291.12	105.45	1,295.57	1,290.58	4.99	259.488	
1,300.00	1,300.00	1,296.54	1,295.74	2.78	2.65	4.44	1,290.07	100.07	1,294.08	1,288.65	5.43	238.144	
1,400.00	1,400.00	1,394.98	1,394.06	3.01	2.88	4.23	1,289.06	95.41	1,292.70	1,286.82	5.88	219.723	
1,500.00	1,500.00	1,495.10	1,494.09	3.23	3.11	4.05	1,288.04	91.18	1,291.38	1,285.04	6.34	203.572	
1,600.00	1,600.00	1,592.49	1,591.40	3.46	3.35	3.88	1,287.12	87.23	1,290.16	1,283.35	6.80	189.681	
1,700.00	1,700.00	1,691.20	1,690.04	3.68	3.59	3.72	1,286.31	83.72	1,289.10	1,281.83	7.27	177.407	
1,800.00	1,800.00	1,787.99	1,786.78	3.91	3.82	3.59	1,285.64	80.72	1,288.20	1,280.48	7.73	166.686	
1,900.00	1,900.00	1,884.49	1,883.24	4.13	4.06	3.48	1,285.20	78.11	1,287.58	1,279.39	8.19	157.238	
2,000.00	2,000.00	1,980.71	1,979.43	4.36	4.29	3.38	1,285.01	75.80	1,287.24	1,278.60	8.65	148.893	
2,100.00	2,100.00	2,079.55	2,078.26	4.58	4.53	3.30	1,284.99	74.01	1,287.12	1,278.01	9.11	141.329	
2,190.49	2,190.49	2,168.79	2,167.49	4.79	4.74	3.24	1,285.01	72.84	1,287.07	1,277.55	9.52	135.142	
2,200.00	2,200.00	2,178.14	2,176.84	4.81	4.76	3.24	1,285.01	72.73	1,287.07	1,277.50	9.57	134.526	
2,300.00	2,300.00	2,278.10	2,276.80	5.03	5.00	3.20	1,285.09	71.84	1,287.10	1,277.07	10.03	128.318	
2,400.00	2,400.00	2,372.72	2,371.42	5.26	5.17	3.18	1,285.27	71.52	1,287.27	1,276.85	10.42	123.500	
2,500.00	2,500.00	2,468.08	2,466.77	5.48	5.25	3.19	1,285.88	71.64	1,287.91	1,277.18	10.73	119.987	
2,600.00	2,600.00	2,565.72	2,564.41	5.71	5.30	3.21	1,286.73	72.23	1,288.82	1,277.81	11.01	117.071	
2,700.00	2,700.00	2,665.07	2,663.75	5.93	5.36	3.25	1,287.70	73.04	1,289.83	1,278.55	11.29	114.285	
2,800.00	2,800.00	2,763.38	2,762.05	6.16	5.42	3.28	1,288.70	73.86	1,290.90	1,279.33	11.57	111.529	
2,900.00	2,900.00	2,859.93	2,858.59	6.38	5.49	3.32	1,289.88	74.89	1,292.18	1,280.31	11.87	108.848	
3,000.00	3,000.00	2,956.36	2,954.99	6.60	5.57	3.39	1,291.30	76.53	1,293.75	1,281.58	12.17	106.270	
3,100.00	3,100.00	3,055.14	3,053.74	6.83	5.66	3.48	1,292.93	78.71	1,295.54	1,283.05	12.49	103.758	
3,200.00	3,200.00	3,154.90	3,153.45	7.05	5.75	3.60	1,294.56	81.40	1,297.33	1,284.52	12.81	101.299	
3,300.00	3,300.00	3,253.37	3,251.86	7.28	5.86	3.73	1,296.19	84.58	1,299.19	1,286.06	13.14	98.910	
3,400.00	3,400.00	3,350.76	3,349.17	7.50	5.97	3.88	1,297.94	87.98	1,301.22	1,287.75	13.47	96.592	
3,500.00	3,500.00	3,446.86	3,445.18	7.73	6.09	4.02	1,299.90	91.37	1,303.49	1,289.68	13.82	94.348	
3,600.00	3,600.00	3,541.70	3,539.93	7.95	6.21	4.17	1,302.15	94.84	1,306.13	1,291.96	14.17	92.189	
3,700.00	3,700.00	3,636.44	3,634.58	8.18	6.35	4.31	1,304.79	98.26	1,309.17	1,294.64	14.53	90.108	
3,800.00	3,800.00	3,733.01	3,731.04	8.40	6.50	4.45	1,307.82	101.81	1,312.58	1,297.68	14.90	88.087	
3,900.00	3,900.00	3,831.80	3,829.71	8.63	6.66	4.59	1,311.04	105.36	1,316.12	1,300.83	15.28	86.110	
4,000.00	4,000.00	3,930.32	3,928.10	8.85	6.82	4.74	1,314.36	108.97	1,319.78	1,304.10	15.67	84.204	
4,100.00	4,100.00	4,029.93	4,027.59	9.08	6.99	4.89	1,317.77	112.68	1,323.50	1,307.43	16.07	82.354	
4,200.00	4,200.00	4,129.58	4,127.11	9.30	7.17	5.04	1,321.18	116.43	1,327.24	1,310.76	16.47	80.566	
4,300.00	4,300.00	4,230.62	4,228.02	9.53	7.36	5.19	1,324.67	120.21	1,331.02	1,314.13	16.88	78.830	
4,400.00	4,400.00	4,338.14	4,335.41	9.75	7.56	5.34	1,327.99	124.22	1,334.44	1,317.12	17.31	77.081	
4,500.00	4,500.00	4,451.35	4,448.53	9.98	7.78	5.48	1,330.72	127.72	1,337.14	1,319.39	17.75	75.313	
4,600.00	4,600.00	4,565.85	4,562.99	10.20	8.00	5.59	1,332.23	130.43	1,338.67	1,320.47	18.20	73.547	
4,700.00	4,700.00	4,672.12	4,669.25	10.43	8.21	5.65	1,332.88	131.97	1,339.42	1,320.79	18.63	71.881	
4,800.00	4,800.00	4,774.40	4,771.52	10.65	8.41	5.71	1,333.24	133.33	1,339.90	1,320.84	19.06	70.302	
4,900.00	4,900.00	4,876.78	4,873.89	10.88	8.61	5.76	1,333.46	134.47	1,340.23	1,320.74	19.49	68.778	
5,000.00	5,000.00	4,986.94	4,984.04	11.10	8.80	5.73	1,332.82	133.85	1,339.54	1,319.64	19.90	67.319	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Federal Unit - #3 - OH - OH													Offset Site Error
Survey Program: 100-NS GYRO-MS													0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning		Offset Well Error			
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	
5,025.23	5,025.23	5,006.55	5,003.66	11.16	8.83	5.73	1,332.77	133.70	1,339.46	1,319.47	19.99	67.013	
5,100.00	5,100.00	5,084.60	5,081.71	11.32	8.97	5.72	1,332.93	133.54	1,339.61	1,319.32	20.29	66.030	
5,200.00	5,200.00	5,204.33	5,201.42	11.55	9.15	5.72	1,331.38	133.28	1,338.25	1,317.56	20.69	64.668	
5,300.00	5,300.00	5,290.16	5,287.24	11.77	9.27	5.73	1,330.07	133.46	1,336.79	1,315.74	21.05	63.520	
5,400.00	5,400.00	5,407.69	5,404.76	12.00	9.45	5.70	1,328.99	132.69	1,335.89	1,314.44	21.44	62.297	
5,500.00	5,500.00	5,500.37	5,497.43	12.22	9.59	5.70	1,327.27	132.44	1,334.02	1,312.20	21.81	61.153	
5,600.00	5,600.00	5,591.21	5,588.26	12.45	9.74	5.72	1,326.15	132.74	1,332.83	1,310.64	22.18	60.084	
5,700.00	5,700.00	5,710.10	5,707.13	12.67	9.93	5.73	1,323.95	132.89	1,330.95	1,308.34	22.60	58.881	
5,800.00	5,800.00	5,786.00	5,783.02	12.90	10.07	5.74	1,323.15	132.90	1,329.82	1,306.86	22.96	57.912	
5,832.89	5,832.89	5,812.34	5,809.35	12.97	10.11	5.74	1,323.17	132.96	1,329.83	1,306.75	23.08	57.611	
5,900.00	5,900.00	5,883.49	5,880.51	13.12	10.24	5.74	1,323.08	133.03	1,329.76	1,306.40	23.36	56.927	
6,000.00	6,000.00	5,987.95	5,984.96	13.35	10.42	5.74	1,322.59	132.92	1,329.28	1,305.51	23.77	55.932	
6,100.00	6,100.00	6,085.22	6,082.24	13.57	10.58	5.74	1,322.15	132.88	1,328.82	1,304.67	24.15	55.020	
6,200.00	6,200.00	6,201.32	6,198.33	13.80	10.78	5.74	1,321.36	132.79	1,328.18	1,303.61	24.57	54.047	
6,300.00	6,300.00	6,300.27	6,297.25	14.02	10.94	5.68	1,319.27	131.28	1,325.94	1,300.98	24.96	53.116	
6,390.97	6,390.97	6,371.01	6,367.97	14.23	11.06	5.62	1,319.00	129.89	1,325.38	1,300.10	25.28	52.424	
6,400.00	6,400.00	6,379.32	6,376.28	14.25	11.07	5.62	1,319.01	129.76	1,325.38	1,300.06	25.32	52.354	
6,500.00	6,500.00	6,475.71	6,472.67	14.47	11.23	5.59	1,319.37	129.06	1,325.68	1,299.98	25.70	51.583	
6,600.00	6,600.00	6,580.43	6,577.38	14.70	11.41	5.57	1,319.56	128.76	1,325.83	1,299.72	26.10	50.792	
6,700.00	6,700.00	6,685.14	6,682.10	14.92	11.59	5.57	1,319.36	128.57	1,325.62	1,299.11	26.51	50.012	
6,800.00	6,800.00	6,785.52	6,782.47	15.15	11.76	5.56	1,318.91	128.47	1,325.17	1,298.26	26.91	49.248	
6,900.00	6,900.00	6,883.72	6,880.68	15.37	11.94	5.56	1,318.58	128.41	1,324.82	1,297.51	27.31	48.512	
7,000.00	7,000.00	6,981.93	6,978.88	15.60	12.12	5.56	1,318.37	128.41	1,324.61	1,296.90	27.71	47.801	
7,100.00	7,100.00	7,081.52	7,078.47	15.82	12.29	5.56	1,318.27	128.28	1,324.50	1,296.38	28.11	47.113	
7,200.00	7,200.00	7,181.90	7,178.85	16.04	12.49	5.54	1,317.77	127.78	1,324.01	1,295.47	28.53	46.402	
7,300.00	7,300.00	7,280.00	7,276.95	16.27	12.65	5.52	1,317.22	127.22	1,323.35	1,294.43	28.92	45.762	
7,304.85	7,304.85	7,289.28	7,286.23	16.28	12.67	5.51	1,317.18	127.16	1,323.32	1,294.37	28.94	45.719	
7,400.00	7,400.00	7,373.00	7,369.94	16.49	12.81	5.50	1,317.53	126.82	1,323.64	1,294.34	29.30	45.174	
7,500.00	7,500.00	7,480.24	7,477.18	16.72	12.99	5.48	1,318.14	126.44	1,324.19	1,294.48	29.71	44.570	
7,600.00	7,600.00	7,591.75	7,588.69	16.94	13.19	5.44	1,317.62	125.56	1,323.64	1,293.50	30.13	43.929	
7,700.00	7,700.00	7,688.43	7,685.36	17.17	13.37	5.42	1,316.80	125.00	1,322.75	1,292.21	30.53	43.320	
7,800.00	7,800.00	7,785.41	7,782.33	17.39	13.54	5.43	1,316.52	125.04	1,322.46	1,291.52	30.93	42.749	
7,900.00	7,900.00	7,892.11	7,889.04	17.62	13.74	5.41	1,315.70	124.66	1,321.65	1,290.29	31.36	42.146	
8,000.00	8,000.00	7,990.53	7,987.45	17.84	13.93	5.40	1,314.88	124.37	1,320.79	1,289.01	31.77	41.568	
8,100.00	8,100.00	8,088.93	8,085.85	18.07	14.12	5.40	1,314.19	124.12	1,320.06	1,287.87	32.19	41.007	
8,200.00	8,200.00	8,186.62	8,183.54	18.29	14.31	5.39	1,313.62	123.94	1,319.47	1,286.86	32.61	40.467	
8,300.00	8,300.00	8,286.30	8,283.21	18.52	14.51	5.40	1,313.13	124.19	1,319.01	1,285.99	33.02	39.941	
8,369.69	8,369.69	8,349.78	8,346.69	18.67	14.62	5.41	1,312.92	124.30	1,318.79	1,285.50	33.30	39.608	
8,400.00	8,400.00	8,376.18	8,373.09	18.74	14.67	5.41	1,312.97	124.24	1,318.84	1,285.43	33.41	39.474	
8,500.00	8,500.00	8,474.99	8,471.90	18.97	14.83	5.38	1,313.48	123.66	1,319.30	1,285.50	33.80	39.032	
8,600.00	8,600.00	8,578.21	8,575.12	19.19	15.01	5.34	1,313.84	122.81	1,319.57	1,285.37	34.20	38.588	
8,700.00	8,700.00	8,678.80	8,675.70	19.42	15.18	5.29	1,314.06	121.64	1,319.68	1,285.08	34.60	38.143	
8,800.00	8,800.00	8,777.41	8,774.30	19.64	15.36	5.22	1,314.35	120.19	1,319.84	1,284.84	35.00	37.709	
8,900.00	8,900.00	8,887.10	8,883.98	19.87	15.57	5.17	1,314.31	118.80	1,319.69	1,284.26	35.43	37.246	
9,000.00	9,000.00	9,002.05	8,998.92	20.09	15.80	5.12	1,313.26	117.59	1,318.69	1,282.81	35.88	36.748	
9,100.00	9,100.00	9,105.03	9,101.88	20.32	16.00	5.10	1,311.16	116.97	1,316.60	1,280.28	36.32	36.254	
9,200.00	9,200.00	9,201.66	9,198.49	20.54	16.20	5.10	1,309.60	116.90	1,314.99	1,278.25	36.74	35.795	
9,300.00	9,300.00	9,293.69	9,290.51	20.77	16.38	5.10	1,308.22	116.75	1,313.49	1,276.34	37.15	35.357	
9,400.00	9,400.00	9,386.36	9,383.18	20.99	16.57	5.08	1,307.70	116.29	1,312.87	1,275.31	37.56	34.950	
9,500.00	9,500.00	9,485.85	9,482.67	21.21	16.78	5.06	1,307.29	115.76	1,312.42	1,274.43	38.00	34.542	
9,594.98	9,594.98	9,575.17	9,571.98	21.43	16.96	5.04	1,307.08	115.19	1,312.15	1,273.76	38.39	34.182	
9,600.00	9,600.00	9,579.73	9,576.55	21.44	16.96	5.03	1,307.09	115.15	1,312.15	1,273.74	38.41	34.164	

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

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Federal Unit - #3 - OH - OH													Offset Site Error:
Survey Program: 100-NS-GYRO-MS													0.00 usft
Reference:	Offset:	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning		Offset Well Error:	
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
9,700.00	9,700.00	9,691.93	9,688.73	21.66	17.17	5.01	1,306.96	114.56	1,312.03	1,273.18	38.84	33.778	
9,800.00	9,799.80	9,781.31	9,778.11	21.89	17.34	5.47	1,306.34	114.69	1,306.75	1,267.31	39.44	33.131	
9,900.00	9,897.39	9,873.65	9,870.44	22.10	17.51	5.71	1,306.62	113.59	1,285.76	1,246.54	39.22	32.785	
10,000.00	9,989.79	9,966.15	9,962.93	22.31	17.68	6.24	1,307.05	112.14	1,248.34	1,210.38	37.96	32.885	
10,100.00	10,074.21	10,054.77	10,051.55	22.54	17.85	7.20	1,307.33	110.75	1,195.39	1,159.64	35.75	33.440	
10,200.00	10,148.09	10,141.68	10,138.45	22.82	18.02	8.97	1,306.99	109.77	1,128.18	1,095.41	32.77	34.431	
10,300.00	10,209.17	10,202.88	10,199.64	23.17	18.14	12.17	1,306.04	110.19	1,048.74	1,019.31	29.43	35.639	
10,400.00	10,255.60	10,242.58	10,239.34	23.61	18.22	18.21	1,305.65	110.16	960.48	933.42	27.06	35.490	
10,500.00	10,285.97	10,269.33	10,266.08	24.15	18.27	32.61	1,305.54	109.92	865.99	835.87	30.13	28.743	
10,600.00	10,299.36	10,282.41	10,279.16	24.80	18.29	74.45	1,305.51	109.77	768.03	725.46	42.56	18.044	
10,700.00	10,300.00	10,282.86	10,279.61	25.54	18.30	91.26	1,305.51	109.76	669.41	625.59	43.82	15.276	
10,800.00	10,300.00	10,282.68	10,279.43	26.38	18.30	91.17	1,305.51	109.77	571.27	526.61	44.66	12.790	
10,900.00	10,300.00	10,282.49	10,279.24	27.32	18.29	91.09	1,305.51	109.77	473.90	428.30	45.60	10.392	
11,000.00	10,300.00	10,282.31	10,279.06	28.34	18.29	91.00	1,305.51	109.77	377.92	331.29	46.63	8.105	
11,100.00	10,300.00	10,282.12	10,278.88	29.45	18.29	90.91	1,305.51	109.77	284.70	236.97	47.73	5.965	
11,200.00	10,300.00	10,281.94	10,278.69	30.62	18.29	90.82	1,305.51	109.77	198.22	149.32	48.90	4.053	
11,300.00	10,300.00	10,281.75	10,278.50	31.85	18.29	90.73	1,305.51	109.78	132.38	82.25	50.14	2.641	
11,358.82	10,300.00	10,281.64	10,278.40	32.61	18.29	90.68	1,305.51	109.78	118.60	67.70	50.89	2.330	CC, ES, SF
11,400.00	10,300.00	10,281.57	10,278.32	33.14	18.29	90.64	1,305.51	109.78	125.54	74.12	51.42	2.441	
11,500.00	10,300.00	10,281.38	10,278.13	34.47	18.29	90.55	1,305.51	109.78	184.38	131.62	52.76	3.495	
11,600.00	10,300.00	10,281.19	10,277.95	35.85	18.29	90.46	1,305.51	109.78	268.76	214.62	54.14	4.964	
11,700.00	10,300.00	10,281.00	10,277.76	37.27	18.29	90.37	1,305.51	109.79	361.20	305.65	55.55	6.502	
11,800.00	10,300.00	10,280.82	10,277.57	38.72	18.29	90.28	1,305.51	109.79	456.84	399.83	57.00	8.014	
11,900.00	10,300.00	10,280.63	10,277.38	40.20	18.29	90.18	1,305.52	109.79	554.02	495.53	58.49	9.473	
12,000.00	10,300.00	10,280.44	10,277.19	41.71	18.29	90.09	1,305.52	109.79	652.05	592.06	59.99	10.869	
12,100.00	10,300.00	10,280.25	10,277.00	43.24	18.29	90.00	1,305.52	109.79	750.60	689.08	61.53	12.200	
12,200.00	10,300.00	10,280.06	10,276.81	44.79	18.29	89.91	1,305.52	109.80	849.49	786.41	63.08	13.467	
12,300.00	10,300.00	10,279.87	10,276.62	46.37	18.29	89.82	1,305.52	109.80	948.62	883.96	64.65	14.673	
12,400.00	10,300.00	10,279.68	10,276.43	47.96	18.29	89.73	1,305.52	109.80	1,047.91	981.66	66.24	15.819	
12,500.00	10,300.00	10,279.49	10,276.24	49.57	18.29	89.63	1,305.52	109.80	1,147.32	1,079.47	67.85	16.910	
12,600.00	10,300.00	10,279.29	10,276.05	51.19	18.29	89.54	1,305.52	109.81	1,246.83	1,177.36	69.47	17.948	
12,700.00	10,300.00	10,279.10	10,275.85	52.82	18.29	89.45	1,305.52	109.81	1,346.41	1,275.30	71.10	18.936	
12,800.00	10,300.00	10,278.91	10,275.66	54.47	18.29	89.35	1,305.52	109.81	1,446.04	1,373.30	72.75	19.877	
12,900.00	10,300.00	10,278.71	10,275.47	56.13	18.29	89.26	1,305.52	109.81	1,545.73	1,471.32	74.40	20.775	
13,000.00	10,300.00	10,278.52	10,275.27	57.80	18.29	89.17	1,305.52	109.82	1,645.45	1,569.38	76.07	21.631	
13,100.00	10,300.00	10,278.32	10,275.08	59.47	18.29	89.07	1,305.52	109.82	1,745.21	1,667.46	77.75	22.448	
13,200.00	10,300.00	10,278.13	10,274.88	61.16	18.29	88.98	1,305.52	109.82	1,844.99	1,765.56	79.43	23.228	
13,300.00	10,300.00	10,277.93	10,274.69	62.85	18.29	88.88	1,305.52	109.82	1,944.79	1,863.67	81.12	23.975	
13,400.00	10,300.00	10,277.74	10,274.49	64.55	18.29	88.79	1,305.52	109.82	2,044.61	1,961.80	82.82	24.689	
13,500.00	10,300.00	10,277.54	10,274.29	66.26	18.28	88.69	1,305.52	109.83	2,144.45	2,059.94	84.52	25.373	
13,600.00	10,300.00	10,277.34	10,274.09	67.97	18.28	88.60	1,305.52	109.83	2,244.31	2,158.08	86.23	26.028	
13,700.00	10,300.00	10,277.14	10,273.90	69.69	18.28	88.50	1,305.52	109.83	2,344.17	2,256.23	87.94	26.656	
13,800.00	10,300.00	10,276.94	10,273.70	71.41	18.28	88.41	1,305.52	109.83	2,444.05	2,354.39	89.66	27.259	
13,900.00	10,300.00	10,276.75	10,273.50	73.14	18.28	88.31	1,305.52	109.84	2,543.94	2,452.55	91.38	27.838	
14,000.00	10,300.00	10,276.55	10,273.30	74.87	18.28	88.21	1,305.52	109.84	2,643.83	2,550.72	93.11	28.394	
14,100.00	10,300.00	10,276.35	10,273.10	76.61	18.28	88.12	1,305.52	109.84	2,743.73	2,648.89	94.84	28.929	
14,200.00	10,300.00	10,276.14	10,272.90	78.35	18.28	88.02	1,305.52	109.84	2,843.64	2,747.07	96.58	29.444	
14,300.00	10,300.00	10,275.94	10,272.70	80.10	18.28	87.92	1,305.52	109.85	2,943.56	2,845.24	98.32	29.940	
14,400.00	10,300.00	10,275.74	10,272.49	81.84	18.28	87.83	1,305.52	109.85	3,043.48	2,943.42	100.06	30.417	
14,500.00	10,300.00	10,275.54	10,272.29	83.60	18.28	87.73	1,305.53	109.85	3,143.41	3,041.61	101.80	30.878	
14,600.00	10,300.00	10,275.34	10,272.09	85.35	18.28	87.63	1,305.53	109.85	3,243.34	3,139.79	103.55	31.322	
14,700.00	10,300.00	10,275.13	10,271.88	87.11	18.28	87.53	1,305.53	109.85	3,343.27	3,237.98	105.30	31.751	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Federal Unit - #3 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS													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	
14,800.00	10,300.00	10,274.93	10,271.68	88.87	18.28	87.43	1,305.53	109.86	3,443.21	3,336.17	107.05	32.165	
14,900.00	10,300.00	10,274.72	10,271.48	90.63	18.28	87.34	1,305.53	109.86	3,543.15	3,434.35	108.80	32.566	
15,000.00	10,300.00	10,274.52	10,271.27	92.39	18.28	87.24	1,305.53	109.86	3,643.10	3,532.55	110.55	32.953	
15,100.00	10,300.00	10,274.31	10,271.06	94.16	18.28	87.14	1,305.53	109.86	3,743.05	3,630.74	112.31	33.328	
15,200.00	10,300.00	10,274.10	10,270.86	95.93	18.28	87.04	1,305.53	109.87	3,843.00	3,728.93	114.07	33.690	
15,300.00	10,300.00	10,273.90	10,270.65	97.70	18.28	86.94	1,305.53	109.87	3,942.95	3,827.12	115.83	34.041	
15,400.00	10,300.00	10,273.69	10,270.44	99.47	18.28	86.84	1,305.53	109.87	4,042.91	3,925.32	117.59	34.382	
15,500.00	10,300.00	10,273.48	10,270.23	101.25	18.28	86.74	1,305.53	109.87	4,142.87	4,023.51	119.35	34.712	
15,600.00	10,300.00	10,273.27	10,270.02	103.02	18.28	86.64	1,305.53	109.88	4,242.83	4,121.71	121.11	35.032	
15,700.00	10,300.00	10,273.06	10,269.81	104.80	18.28	86.54	1,305.53	109.88	4,342.79	4,219.91	122.88	35.342	
15,800.00	10,300.00	10,272.85	10,269.60	106.58	18.28	86.44	1,305.53	109.88	4,442.75	4,318.11	124.64	35.644	
15,900.00	10,300.00	10,272.64	10,269.39	108.36	18.27	86.33	1,305.53	109.88	4,542.72	4,416.31	126.41	35.937	
16,000.00	10,300.00	10,272.43	10,269.18	110.15	18.27	86.23	1,305.53	109.89	4,642.68	4,514.51	128.17	36.222	
16,100.00	10,300.00	10,272.22	10,268.97	111.93	18.27	86.13	1,305.53	109.89	4,742.65	4,612.71	129.94	36.499	
16,200.00	10,300.00	10,272.00	10,268.76	113.71	18.27	86.03	1,305.53	109.89	4,842.62	4,710.91	131.71	36.768	
16,300.00	10,300.00	10,271.79	10,268.54	115.50	18.27	85.93	1,305.53	109.89	4,942.59	4,809.11	133.48	37.030	
16,400.00	10,300.00	10,271.58	10,268.33	117.29	18.27	85.82	1,305.53	109.90	5,042.56	4,907.32	135.24	37.285	
16,500.00	10,300.00	10,271.36	10,268.12	119.08	18.27	85.72	1,305.53	109.90	5,142.53	5,005.52	137.01	37.534	
16,600.00	10,300.00	10,271.15	10,267.90	120.87	18.27	85.62	1,305.53	109.90	5,242.51	5,103.73	138.78	37.776	
16,700.00	10,300.00	10,270.93	10,267.68	122.66	18.27	85.51	1,305.53	109.90	5,342.48	5,201.93	140.55	38.012	
16,800.00	10,300.00	10,270.71	10,267.47	124.45	18.27	85.41	1,305.54	109.91	5,442.46	5,300.14	142.32	38.242	
16,900.00	10,300.00	10,270.50	10,267.25	126.24	18.27	85.31	1,305.54	109.91	5,542.43	5,398.35	144.09	38.466	
17,000.00	10,300.00	10,270.28	10,267.03	128.03	18.27	85.20	1,305.54	109.91	5,642.41	5,496.56	145.85	38.685	
17,100.00	10,300.00	10,270.06	10,266.82	129.83	18.27	85.10	1,305.54	109.91	5,742.39	5,594.77	147.62	38.899	
17,200.00	10,300.00	10,174.00	10,170.76	131.62	18.08	48.19	1,306.50	109.97	5,842.37	5,724.70	117.67	49.651	
17,300.00	10,300.00	10,174.00	10,170.76	133.42	18.08	48.19	1,306.50	109.97	5,942.33	5,823.24	119.09	49.897	
17,400.00	10,300.00	10,174.00	10,170.76	135.21	18.08	48.19	1,306.50	109.97	6,042.29	5,921.78	120.51	50.138	
17,500.00	10,300.00	10,174.00	10,170.76	137.01	18.08	48.19	1,306.50	109.97	6,142.26	6,020.32	121.94	50.372	
17,600.00	10,300.00	10,174.00	10,170.76	138.81	18.08	48.19	1,306.50	109.97	6,242.23	6,118.86	123.36	50.601	
17,700.00	10,300.00	10,174.00	10,170.76	140.61	18.08	48.19	1,306.50	109.97	6,342.19	6,217.41	124.79	50.824	
17,800.00	10,300.00	10,174.00	10,170.76	142.40	18.08	48.19	1,306.50	109.97	6,442.16	6,315.95	126.21	51.042	
17,900.00	10,300.00	10,174.00	10,170.76	144.20	18.08	48.19	1,306.50	109.97	6,542.13	6,414.50	127.64	51.256	
18,000.00	10,300.00	10,174.00	10,170.76	146.00	18.08	48.19	1,306.50	109.97	6,642.10	6,513.04	129.06	51.464	
18,100.00	10,300.00	10,174.00	10,170.76	147.81	18.08	48.19	1,306.50	109.97	6,742.08	6,611.59	130.49	51.667	
18,200.00	10,300.00	10,174.00	10,170.76	149.61	18.08	48.19	1,306.50	109.97	6,842.05	6,710.13	131.92	51.866	
18,231.13	10,300.00	10,174.00	10,170.76	150.17	18.08	48.19	1,306.50	109.97	6,873.17	6,740.81	132.36	51.928	

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #2H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey/Program: 0-SDI MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	1.23	8,858.40	190.50	8,860.48				
100.00	100.00	78.00	78.00	0.09	0.07	1.23	8,858.40	190.50	8,860.45	8,860.29	0.15	N/A	
200.00	200.00	178.00	178.00	0.31	0.26	1.23	8,858.40	190.50	8,860.45	8,859.88	0.57	N/A	
300.00	300.00	278.00	278.00	0.54	0.49	1.23	8,858.40	190.50	8,860.45	8,859.43	1.02	8,663.902	
400.00	400.00	378.00	378.00	0.76	0.71	1.23	8,858.40	190.50	8,860.45	8,858.98	1.47	6,018.436	
500.00	500.00	478.00	478.00	0.99	0.94	1.23	8,858.40	190.50	8,860.45	8,858.53	1.92	4,610.615	
600.00	600.00	578.00	578.00	1.21	1.16	1.23	8,858.40	190.50	8,860.45	8,858.08	2.37	3,736.565	
700.00	700.00	678.00	678.00	1.44	1.39	1.23	8,858.40	190.50	8,860.45	8,857.63	2.82	3,141.096	
800.00	800.00	778.00	778.00	1.66	1.61	1.23	8,858.40	190.50	8,860.45	8,857.18	3.27	2,709.331	
900.00	900.00	878.00	878.00	1.88	1.84	1.23	8,858.40	190.50	8,860.45	8,856.73	3.72	2,381.919	
1,000.00	1,000.00	978.00	978.00	2.11	2.06	1.23	8,858.40	190.50	8,860.45	8,856.28	4.17	2,125.108	
1,100.00	1,100.00	1,078.00	1,078.00	2.33	2.28	1.23	8,858.40	190.50	8,860.45	8,855.83	4.62	1,918.285	
1,200.00	1,200.00	1,178.00	1,178.00	2.56	2.51	1.23	8,858.40	190.50	8,860.45	8,855.38	5.07	1,748.149	
1,300.00	1,300.00	1,278.00	1,278.00	2.78	2.73	1.23	8,858.40	190.50	8,860.45	8,854.93	5.52	1,605.734	
1,400.00	1,400.00	1,378.00	1,378.00	3.01	2.96	1.23	8,858.40	190.50	8,860.45	8,854.48	5.97	1,484.774	
1,500.00	1,500.00	1,478.00	1,478.00	3.23	3.18	1.23	8,858.40	190.50	8,860.45	8,854.03	6.42	1,380.762	
1,600.00	1,600.00	1,578.00	1,578.00	3.46	3.41	1.23	8,858.40	190.50	8,860.45	8,853.58	6.87	1,290.369	
1,700.00	1,700.00	17,977.92	10,300.00	3.68	145.94	-55.63	905.70	-1,324.30	8,770.00	8,633.10	136.90	64.060	
1,800.00	1,800.00	17,977.92	10,300.00	3.91	145.94	-55.63	905.70	-1,324.30	8,671.71	8,534.58	137.13	63.238	
1,900.00	1,900.00	17,977.92	10,300.00	4.13	145.94	-55.63	905.70	-1,324.30	8,573.46	8,436.10	137.35	62.419	
2,000.00	2,000.00	17,977.92	10,300.00	4.36	145.94	-55.63	905.70	-1,324.30	8,475.24	8,337.67	137.58	61.603	
2,100.00	2,100.00	17,977.92	10,300.00	4.58	145.94	-55.63	905.70	-1,324.30	8,377.07	8,239.27	137.80	60.790	
2,200.00	2,200.00	17,977.92	10,300.00	4.81	145.94	-55.63	905.70	-1,324.30	8,278.95	8,140.92	138.03	59.980	
2,300.00	2,300.00	17,977.92	10,300.00	5.03	145.94	-55.63	905.70	-1,324.30	8,180.86	8,042.61	138.25	59.173	
2,400.00	2,400.00	17,977.92	10,300.00	5.26	145.94	-55.63	905.70	-1,324.30	8,082.83	7,944.35	138.48	58.369	
2,500.00	2,500.00	17,977.92	10,300.00	5.48	145.94	-55.63	905.70	-1,324.30	7,984.85	7,846.14	138.70	57.568	
2,600.00	2,600.00	17,977.92	10,300.00	5.71	145.94	-55.63	905.70	-1,324.30	7,886.91	7,747.98	138.93	56.770	
2,700.00	2,700.00	17,977.92	10,300.00	5.93	145.94	-55.63	905.70	-1,324.30	7,789.03	7,649.88	139.15	55.975	
2,800.00	2,800.00	17,977.92	10,300.00	6.16	145.94	-55.63	905.70	-1,324.30	7,691.20	7,551.82	139.38	55.183	
2,900.00	2,900.00	17,977.92	10,300.00	6.38	145.94	-55.63	905.70	-1,324.30	7,593.43	7,453.83	139.60	54.394	
3,000.00	3,000.00	17,977.92	10,300.00	6.60	145.94	-55.63	905.70	-1,324.30	7,495.72	7,355.89	139.83	53.607	
3,100.00	3,100.00	17,977.92	10,300.00	6.83	145.94	-55.63	905.70	-1,324.30	7,398.06	7,258.01	140.05	52.824	
3,200.00	3,200.00	17,977.92	10,300.00	7.05	145.94	-55.63	905.70	-1,324.30	7,300.48	7,160.20	140.28	52.044	
3,300.00	3,300.00	17,977.92	10,300.00	7.28	145.94	-55.63	905.70	-1,324.30	7,202.95	7,062.45	140.50	51.267	
3,400.00	3,400.00	17,977.92	10,300.00	7.50	145.94	-55.63	905.70	-1,324.30	7,105.50	6,964.78	140.72	50.492	
3,500.00	3,500.00	17,977.92	10,300.00	7.73	145.94	-55.63	905.70	-1,324.30	7,008.12	6,867.17	140.95	49.721	
3,600.00	3,600.00	17,977.92	10,300.00	7.95	145.94	-55.63	905.70	-1,324.30	6,910.81	6,769.64	141.17	48.952	
3,700.00	3,700.00	17,977.92	10,300.00	8.18	145.94	-55.63	905.70	-1,324.30	6,813.59	6,672.19	141.40	48.187	
3,800.00	3,800.00	17,977.92	10,300.00	8.40	145.94	-55.63	905.70	-1,324.30	6,716.44	6,574.81	141.62	47.424	
3,900.00	3,900.00	17,977.92	10,300.00	8.63	145.94	-55.63	905.70	-1,324.30	6,619.38	6,477.53	141.85	46.665	
4,000.00	4,000.00	17,977.92	10,300.00	8.85	145.94	-55.63	905.70	-1,324.30	6,522.40	6,380.33	142.07	45.909	
4,100.00	4,100.00	17,977.92	10,300.00	9.08	145.94	-55.63	905.70	-1,324.30	6,425.52	6,283.22	142.30	45.155	
4,200.00	4,200.00	17,977.92	10,300.00	9.30	145.94	-55.63	905.70	-1,324.30	6,328.74	6,186.22	142.52	44.405	
4,300.00	4,300.00	17,977.92	10,300.00	9.53	145.94	-55.63	905.70	-1,324.30	6,232.06	6,089.31	142.75	43.658	
4,400.00	4,400.00	17,977.92	10,300.00	9.75	145.94	-55.63	905.70	-1,324.30	6,135.48	5,992.51	142.97	42.914	
4,500.00	4,500.00	17,977.92	10,300.00	9.98	145.94	-55.63	905.70	-1,324.30	6,039.02	5,895.82	143.20	42.173	
4,600.00	4,600.00	17,977.92	10,300.00	10.20	145.94	-55.63	905.70	-1,324.30	5,942.67	5,799.25	143.42	41.435	
4,700.00	4,700.00	17,977.92	10,300.00	10.43	145.94	-55.63	905.70	-1,324.30	5,846.45	5,702.80	143.65	40.700	
4,800.00	4,800.00	17,977.92	10,300.00	10.65	145.94	-55.63	905.70	-1,324.30	5,750.35	5,606.48	143.87	39.969	
4,900.00	4,900.00	17,977.92	10,300.00	10.88	145.94	-55.63	905.70	-1,324.30	5,654.39	5,510.30	144.10	39.240	
5,000.00	5,000.00	17,977.92	10,300.00	11.10	145.94	-55.63	905.70	-1,324.30	5,558.57	5,414.25	144.32	38.515	
5,100.00	5,100.00	17,977.92	10,300.00	11.32	145.94	-55.63	905.70	-1,324.30	5,462.91	5,318.36	144.55	37.794	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #2H - OH - Plan #1													Offset Site Error:
Survey Program: 0-SDI MWD													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)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,200.00	17,977.92	10,300.00	11.55	145.94	-55.63	905.70	-1,324.30	5,367.40	5,222.63	144.77	37.075	
5,300.00	5,300.00	17,977.92	10,300.00	11.77	145.94	-55.63	905.70	-1,324.30	5,272.05	5,127.06	145.00	36.360	
5,400.00	5,400.00	17,977.92	10,300.00	12.00	145.94	-55.63	905.70	-1,324.30	5,176.89	5,031.67	145.22	35.649	
5,500.00	5,500.00	17,977.92	10,300.00	12.22	145.94	-55.63	905.70	-1,324.30	5,081.90	4,936.46	145.45	34.940	
5,600.00	5,600.00	17,977.92	10,300.00	12.45	145.94	-55.63	905.70	-1,324.30	4,987.12	4,841.45	145.67	34.236	
5,700.00	5,700.00	17,977.92	10,300.00	12.67	145.94	-55.63	905.70	-1,324.30	4,892.54	4,746.65	145.89	33.535	
5,800.00	5,800.00	17,977.92	10,300.00	12.90	145.94	-55.63	905.70	-1,324.30	4,798.18	4,652.06	146.12	32.837	
5,900.00	5,900.00	17,977.92	10,300.00	13.12	145.94	-55.63	905.70	-1,324.30	4,704.06	4,557.71	146.34	32.144	
6,000.00	6,000.00	17,977.92	10,300.00	13.35	145.94	-55.63	905.70	-1,324.30	4,610.18	4,463.61	146.57	31.454	
6,100.00	6,100.00	17,977.92	10,300.00	13.57	145.94	-55.63	905.70	-1,324.30	4,516.56	4,369.77	146.79	30.768	
6,200.00	6,200.00	17,977.92	10,300.00	13.80	145.94	-55.63	905.70	-1,324.30	4,423.23	4,276.21	147.02	30.086	
6,300.00	6,300.00	17,977.92	10,300.00	14.02	145.94	-55.63	905.70	-1,324.30	4,330.19	4,182.95	147.24	29.408	
6,400.00	6,400.00	17,977.92	10,300.00	14.25	145.94	-55.63	905.70	-1,324.30	4,237.47	4,090.00	147.47	28.735	
6,500.00	6,500.00	17,977.92	10,300.00	14.47	145.94	-55.63	905.70	-1,324.30	4,145.09	3,997.39	147.69	28.066	
6,600.00	6,600.00	17,977.92	10,300.00	14.70	145.94	-55.63	905.70	-1,324.30	4,053.07	3,905.15	147.92	27.401	
6,700.00	6,700.00	17,977.92	10,300.00	14.92	145.94	-55.63	905.70	-1,324.30	3,961.43	3,813.29	148.14	26.741	
6,800.00	6,800.00	17,977.92	10,300.00	15.15	145.94	-55.63	905.70	-1,324.30	3,870.21	3,721.85	148.37	26.085	
6,900.00	6,900.00	17,977.92	10,300.00	15.37	145.94	-55.63	905.70	-1,324.30	3,779.44	3,630.85	148.59	25.435	
7,000.00	7,000.00	17,977.92	10,300.00	15.60	145.94	-55.63	905.70	-1,324.30	3,689.14	3,540.32	148.82	24.790	
7,100.00	7,100.00	17,977.92	10,300.00	15.82	145.94	-55.63	905.70	-1,324.30	3,599.35	3,450.31	149.04	24.150	
7,200.00	7,200.00	17,977.92	10,300.00	16.04	145.94	-55.63	905.70	-1,324.30	3,510.12	3,360.85	149.27	23.516	
7,300.00	7,300.00	17,977.92	10,300.00	16.27	145.94	-55.63	905.70	-1,324.30	3,421.48	3,271.99	149.49	22.888	
7,400.00	7,400.00	17,977.92	10,300.00	16.49	145.94	-55.63	905.70	-1,324.30	3,333.49	3,183.77	149.72	22.265	
7,500.00	7,500.00	17,977.92	10,300.00	16.72	145.94	-55.63	905.70	-1,324.30	3,246.19	3,096.25	149.94	21.650	
7,600.00	7,600.00	17,977.92	10,300.00	16.94	145.94	-55.63	905.70	-1,324.30	3,159.64	3,009.48	150.17	21.041	
7,700.00	7,700.00	17,977.92	10,300.00	17.17	145.94	-55.63	905.70	-1,324.30	3,073.91	2,923.52	150.39	20.440	
7,800.00	7,800.00	17,977.92	10,300.00	17.39	145.94	-55.63	905.70	-1,324.30	2,989.07	2,838.46	150.61	19.846	
7,900.00	7,900.00	17,977.92	10,300.00	17.62	145.94	-55.63	905.70	-1,324.30	2,905.19	2,754.35	150.84	19.260	
8,000.00	8,000.00	17,977.92	10,300.00	17.84	145.94	-55.63	905.70	-1,324.30	2,822.37	2,671.30	151.06	18.683	
8,100.00	8,100.00	17,977.92	10,300.00	18.07	145.94	-55.63	905.70	-1,324.30	2,740.68	2,589.39	151.29	18.116	
8,200.00	8,200.00	17,977.92	10,300.00	18.29	145.94	-55.63	905.70	-1,324.30	2,660.25	2,508.74	151.51	17.558	
8,300.00	8,300.00	17,977.92	10,300.00	18.52	145.94	-55.63	905.70	-1,324.30	2,581.19	2,429.45	151.74	17.011	
8,400.00	8,400.00	17,977.92	10,300.00	18.74	145.94	-55.63	905.70	-1,324.30	2,503.63	2,351.66	151.96	16.475	
8,500.00	8,500.00	17,977.92	10,300.00	18.97	145.94	-55.63	905.70	-1,324.30	2,427.70	2,275.52	152.19	15.952	
8,600.00	8,600.00	17,977.92	10,300.00	19.19	145.94	-55.63	905.70	-1,324.30	2,353.58	2,201.17	152.41	15.442	
8,700.00	8,700.00	17,977.92	10,300.00	19.42	145.94	-55.63	905.70	-1,324.30	2,281.44	2,128.80	152.64	14.947	
8,800.00	8,800.00	17,977.92	10,300.00	19.64	145.94	-55.63	905.70	-1,324.30	2,211.46	2,058.60	152.86	14.467	
8,900.00	8,900.00	17,977.92	10,300.00	19.87	145.94	-55.63	905.70	-1,324.30	2,143.86	1,990.78	153.09	14.004	
9,000.00	9,000.00	17,977.92	10,300.00	20.09	145.94	-55.63	905.70	-1,324.30	2,078.88	1,925.57	153.31	13.560	
9,100.00	9,100.00	17,977.92	10,300.00	20.32	145.94	-55.63	905.70	-1,324.30	2,016.77	1,863.23	153.54	13.135	
9,200.00	9,200.00	17,977.92	10,300.00	20.54	145.94	-55.63	905.70	-1,324.30	1,957.79	1,804.03	153.76	12.733	
9,300.00	9,300.00	17,977.92	10,300.00	20.77	145.94	-55.63	905.70	-1,324.30	1,902.25	1,748.26	153.99	12.353	
9,400.00	9,400.00	17,977.92	10,300.00	20.99	145.94	-55.63	905.70	-1,324.30	1,850.45	1,696.23	154.21	11.999	
9,500.00	9,500.00	17,977.92	10,300.00	21.21	145.94	-55.63	905.70	-1,324.30	1,802.71	1,648.27	154.44	11.673	
9,600.00	9,600.00	17,977.92	10,300.00	21.44	145.94	-55.63	905.70	-1,324.30	1,759.36	1,604.70	154.66	11.376	
9,700.00	9,700.00	17,977.92	10,300.00	21.66	145.94	-55.63	905.70	-1,324.30	1,720.74	1,565.86	154.89	11.110	
9,800.00	9,799.80	17,977.92	10,300.00	21.89	145.94	-57.61	905.70	-1,324.30	1,684.72	1,526.87	155.85	10.673	
9,900.00	9,897.39	17,977.92	10,300.00	22.10	145.94	-61.28	905.70	-1,324.30	1,645.49	1,484.56	160.93	10.225	
10,000.00	9,989.79	17,977.92	10,300.00	22.31	145.94	-65.39	905.70	-1,324.30	1,603.68	1,440.21	163.47	9.810	
10,100.00	10,074.21	17,977.92	10,300.00	22.54	145.94	-69.83	905.70	-1,324.30	1,560.41	1,395.03	165.38	9.435	
10,200.00	10,148.09	17,977.92	10,300.00	22.82	145.94	-74.42	905.70	-1,324.30	1,516.92	1,350.27	166.65	9.102	
10,300.00	10,209.17	17,977.92	10,300.00	23.17	145.94	-78.97	905.70	-1,324.30	1,474.57	1,307.20	167.38	8.810	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 - North Bell Lake Unit 6 2BSS - #2H - OH - Plan #1													Offset Site Error:
Survey Program: DSDI MWD													0.00 usft
Reference:													Offset Well Error:
Offset													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)	Offset Wellbore Centre (E/W) (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,255.60	17,977.92	10,300.00	23.61	145.94	-83.25	905.70	-1,324.30	1,434.82	1,267.08	167.74	8.554	
10,500.00	10,285.97	17,977.92	10,300.00	24.15	145.94	-87.06	905.70	-1,324.30	1,399.12	1,231.15	167.97	8.330	
10,600.00	10,289.36	17,977.92	10,300.00	24.80	145.94	-90.23	905.70	-1,324.30	1,368.93	1,200.63	168.31	8.134	
10,700.00	10,300.00	17,977.92	10,300.00	25.54	145.94	-90.96	905.70	-1,324.30	1,345.44	1,176.46	168.99	7.962	
10,800.00	10,300.00	17,977.92	10,300.00	26.38	145.94	-90.96	905.70	-1,324.30	1,329.09	1,159.26	169.83	7.826	
10,900.00	10,300.00	17,977.92	10,300.00	27.32	145.94	-90.96	905.70	-1,324.30	1,320.13	1,149.36	170.77	7.731	
11,000.00	10,300.00	17,937.73	10,300.00	28.34	145.23	-90.96	945.89	-1,324.30	1,318.10	1,147.03	171.07	7.705	
11,100.00	10,300.00	17,837.73	10,300.00	29.45	143.47	-90.96	1,045.89	-1,324.30	1,317.42	1,147.04	170.39	7.732	
11,200.00	10,300.00	17,737.73	10,300.00	30.62	141.71	-90.96	1,145.89	-1,324.30	1,316.75	1,146.98	169.77	7.756	
11,300.00	10,300.00	17,637.73	10,300.00	31.85	139.95	-90.96	1,245.89	-1,324.30	1,316.07	1,146.86	169.21	7.778	
11,400.00	10,300.00	17,537.74	10,300.00	33.14	138.20	-90.96	1,345.88	-1,324.30	1,315.40	1,146.68	168.72	7.797	
11,500.00	10,300.00	17,437.74	10,300.00	34.47	136.44	-90.96	1,445.88	-1,324.30	1,314.72	1,146.46	168.27	7.813	
11,600.00	10,300.00	17,337.74	10,300.00	35.85	134.69	-90.96	1,545.88	-1,324.30	1,314.05	1,146.19	167.86	7.828	
11,700.00	10,300.00	17,237.74	10,300.00	37.27	132.94	-90.96	1,645.88	-1,324.30	1,313.37	1,145.88	167.49	7.841	
11,800.00	10,300.00	17,137.74	10,300.00	38.72	131.19	-90.96	1,745.87	-1,324.30	1,312.70	1,145.54	167.16	7.853	
11,900.00	10,300.00	17,037.75	10,300.00	40.20	129.45	-90.96	1,845.87	-1,324.30	1,312.03	1,145.16	166.86	7.863	
12,000.00	10,300.00	16,937.75	10,300.00	41.71	127.70	-90.96	1,945.87	-1,324.30	1,311.35	1,144.76	166.59	7.872	
12,100.00	10,300.00	16,837.75	10,300.00	43.24	125.96	-90.96	2,045.87	-1,324.30	1,310.68	1,144.33	166.34	7.879	
12,200.00	10,300.00	16,737.75	10,300.00	44.79	124.22	-90.96	2,145.87	-1,324.30	1,310.00	1,143.88	166.12	7.886	
12,300.00	10,300.00	16,637.76	10,300.00	46.37	122.48	-90.96	2,245.86	-1,324.30	1,309.33	1,143.41	165.92	7.891	
12,400.00	10,300.00	16,537.76	10,300.00	47.96	120.75	-90.96	2,345.86	-1,324.30	1,308.65	1,142.92	165.74	7.896	
12,500.00	10,300.00	16,437.76	10,300.00	49.57	119.02	-90.96	2,445.86	-1,324.30	1,307.98	1,142.29	165.69	7.894	
12,600.00	10,300.00	16,337.76	10,300.00	51.19	117.29	-90.96	2,545.86	-1,324.30	1,307.30	1,141.62	165.68	7.891	
12,700.00	10,300.00	16,237.76	10,300.00	52.82	115.56	-90.96	2,645.85	-1,324.30	1,306.63	1,140.94	165.68	7.886	
12,800.00	10,300.00	16,137.77	10,300.00	54.47	113.84	-90.97	2,745.85	-1,324.30	1,305.95	1,140.25	165.70	7.881	
12,900.00	10,300.00	16,037.77	10,300.00	56.13	112.12	-90.97	2,845.85	-1,324.30	1,305.28	1,139.54	165.73	7.876	
13,000.00	10,300.00	15,937.77	10,300.00	57.80	110.40	-90.97	2,945.85	-1,324.30	1,304.60	1,138.83	165.78	7.870	
13,100.00	10,300.00	15,837.77	10,300.00	59.47	108.68	-90.97	3,045.85	-1,324.31	1,303.93	1,138.10	165.83	7.863	
13,200.00	10,300.00	15,737.78	10,300.00	61.16	106.97	-90.97	3,145.84	-1,324.31	1,303.25	1,137.36	165.89	7.856	
13,300.00	10,300.00	15,637.78	10,300.00	62.85	105.27	-90.97	3,245.84	-1,324.31	1,302.58	1,136.61	165.97	7.848	
13,400.00	10,300.00	15,537.78	10,300.00	64.55	103.56	-90.97	3,345.84	-1,324.31	1,301.90	1,135.85	166.05	7.840	
13,500.00	10,300.00	15,437.78	10,300.00	66.26	101.86	-90.97	3,445.84	-1,324.31	1,301.23	1,135.09	166.14	7.832	
13,600.00	10,300.00	15,337.79	10,300.00	67.97	100.17	-90.97	3,545.83	-1,324.31	1,300.55	1,134.31	166.24	7.823	
13,700.00	10,300.00	15,237.79	10,300.00	69.69	98.48	-90.97	3,645.83	-1,324.31	1,299.88	1,133.53	166.35	7.814	
13,800.00	10,300.00	15,137.79	10,300.00	71.41	96.79	-90.97	3,745.83	-1,324.31	1,299.20	1,132.74	166.47	7.805	
13,900.00	10,300.00	15,037.79	10,300.00	73.14	95.11	-90.97	3,845.83	-1,324.31	1,298.53	1,131.94	166.59	7.795	
14,000.00	10,300.00	14,937.79	10,300.00	74.87	93.44	-90.97	3,945.82	-1,324.31	1,297.86	1,131.13	166.72	7.784	
14,100.00	10,300.00	14,837.80	10,300.00	76.61	91.77	-90.97	4,045.82	-1,324.31	1,297.18	1,130.32	166.86	7.774	
14,200.00	10,300.00	14,737.80	10,300.00	78.35	90.10	-90.97	4,145.82	-1,324.31	1,296.51	1,129.50	167.01	7.763	
14,300.00	10,300.00	14,637.80	10,300.00	80.10	88.45	-90.97	4,245.82	-1,324.31	1,295.83	1,128.67	167.16	7.752	
14,400.00	10,300.00	14,537.80	10,300.00	81.84	86.79	-90.97	4,345.82	-1,324.31	1,295.16	1,127.83	167.32	7.740	
14,500.00	10,300.00	14,437.81	10,300.00	83.60	85.15	-90.97	4,445.81	-1,324.31	1,294.48	1,126.99	167.49	7.729	
14,600.00	10,300.00	14,337.81	10,300.00	85.35	83.51	-90.97	4,545.81	-1,324.31	1,293.81	1,126.14	167.67	7.716	
14,700.00	10,300.00	14,237.81	10,300.00	87.11	81.88	-90.97	4,645.81	-1,324.31	1,293.13	1,125.28	167.85	7.704	
14,800.00	10,300.00	14,137.81	10,300.00	88.87	80.26	-90.98	4,745.81	-1,324.31	1,292.46	1,124.42	168.04	7.691	
14,900.00	10,300.00	14,037.81	10,300.00	90.63	78.65	-90.98	4,845.80	-1,324.31	1,291.78	1,123.54	168.24	7.678	
15,000.00	10,300.00	13,937.82	10,300.00	92.39	77.04	-90.98	4,945.80	-1,324.31	1,291.11	1,122.66	168.45	7.665	
15,100.00	10,300.00	13,837.82	10,300.00	94.16	75.45	-90.98	5,045.80	-1,324.31	1,290.43	1,121.77	168.66	7.651	
15,200.00	10,300.00	13,737.82	10,300.00	95.93	73.87	-90.98	5,145.80	-1,324.31	1,289.76	1,120.87	168.88	7.637	
15,300.00	10,300.00	13,637.82	10,300.00	97.70	72.29	-90.98	5,245.80	-1,324.31	1,289.08	1,119.97	169.12	7.622	
15,400.00	10,300.00	13,537.83	10,300.00	99.47	70.73	-90.98	5,345.79	-1,324.31	1,288.41	1,119.05	169.36	7.608	
15,500.00	10,300.00	13,437.83	10,300.00	101.25	69.18	-90.98	5,445.79	-1,324.31	1,287.73	1,118.12	169.61	7.592	

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

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #2H - OH - Plan #1													Offset Site Error:
Survey Program: 0:SDI MWD													Offset Well Error:
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		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	
15,600.00	10,300.00	13,337.83	10,300.00	103.02	67.65	-90.98	5,545.79	-1,324.31	1,287.06	1,117.19	169.87	7.577	
15,700.00	10,300.00	13,237.83	10,300.00	104.80	66.13	-90.98	5,645.79	-1,324.31	1,286.38	1,116.24	170.15	7.560	
15,800.00	10,300.00	13,137.84	10,300.00	106.58	64.62	-90.98	5,745.78	-1,324.31	1,285.71	1,115.28	170.43	7.544	
15,900.00	10,300.00	13,037.84	10,300.00	108.36	63.13	-90.98	5,845.78	-1,324.31	1,285.03	1,114.31	170.73	7.527	
16,000.00	10,300.00	12,937.84	10,300.00	110.15	61.66	-90.98	5,945.78	-1,324.31	1,284.36	1,113.32	171.04	7.509	
16,100.00	10,300.00	12,837.84	10,300.00	111.93	60.21	-90.98	6,045.78	-1,324.31	1,283.69	1,112.32	171.37	7.491	
16,200.00	10,300.00	12,737.84	10,300.00	113.71	58.77	-90.98	6,145.77	-1,324.31	1,283.01	1,111.30	171.71	7.472	
16,300.00	10,300.00	12,637.85	10,300.00	115.50	57.36	-90.98	6,245.77	-1,324.31	1,282.34	1,110.27	172.06	7.453	
16,400.00	10,300.00	12,537.85	10,300.00	117.29	55.97	-90.98	6,345.77	-1,324.31	1,281.66	1,109.22	172.44	7.432	
16,500.00	10,300.00	12,437.85	10,300.00	119.08	54.60	-90.98	6,445.77	-1,324.31	1,280.99	1,108.15	172.84	7.411	
16,600.00	10,300.00	12,337.85	10,300.00	120.87	53.26	-90.98	6,545.77	-1,324.31	1,280.31	1,107.05	173.26	7.390	
16,700.00	10,300.00	12,237.86	10,300.00	122.66	51.94	-90.99	6,645.76	-1,324.31	1,279.64	1,105.94	173.70	7.367	
16,800.00	10,300.00	12,137.86	10,300.00	124.45	50.66	-90.99	6,745.76	-1,324.31	1,278.96	1,104.79	174.17	7.343	
16,900.00	10,300.00	12,037.86	10,300.00	126.24	49.40	-90.99	6,845.76	-1,324.31	1,278.29	1,103.62	174.67	7.318	
17,000.00	10,300.00	11,937.86	10,300.00	128.03	48.18	-90.99	6,945.76	-1,324.31	1,277.61	1,102.42	175.20	7.293	
17,100.00	10,300.00	11,798.62	10,300.00	129.83	46.58	-90.99	7,045.99	-1,322.96	1,276.19	1,100.95	175.24	7.283	
17,200.00	10,300.00	11,619.09	10,300.00	131.62	44.56	-91.00	7,264.14	-1,311.82	1,269.31	1,094.51	174.80	7.262	
17,300.00	10,300.00	11,441.80	10,300.00	133.42	42.59	-91.02	7,440.04	-1,289.84	1,256.23	1,081.78	174.44	7.201	
17,400.00	10,300.00	11,268.01	10,300.00	135.21	40.68	-91.04	7,610.81	-1,257.77	1,237.10	1,062.88	174.22	7.101	
17,500.00	10,300.00	11,098.87	10,300.00	137.01	38.87	-91.08	7,774.85	-1,216.67	1,212.14	1,037.97	174.17	6.960	
17,600.00	10,300.00	10,935.32	10,300.00	138.81	37.17	-91.13	7,930.91	-1,167.78	1,181.60	1,007.28	174.32	6.778	
17,700.00	10,300.00	10,778.08	10,300.00	140.61	35.58	-91.19	8,078.08	-1,112.47	1,145.77	971.09	174.68	6.559	
17,800.00	10,300.00	10,653.80	10,298.16	142.40	34.24	-91.15	8,192.21	-1,063.44	1,105.52	930.12	175.40	6.303	
17,900.00	10,300.00	10,561.54	10,283.42	144.20	33.26	-90.32	8,275.49	-1,026.81	1,064.47	887.97	176.50	6.031	
18,000.00	10,300.00	10,475.99	10,256.88	146.00	32.42	-88.71	8,349.86	-994.11	1,023.83	846.14	177.70	5.762	
18,100.00	10,300.00	10,400.00	10,223.38	147.81	31.73	-86.56	8,412.24	-966.67	984.73	805.89	178.85	5.506	
18,200.00	10,300.00	10,333.63	10,186.97	149.61	31.19	-84.14	8,463.00	-944.35	948.63	768.79	179.84	5.275	
18,231.13	10,300.00	10,315.06	10,175.66	150.17	31.05	-83.38	8,476.48	-938.42	938.25	758.15	180.11	5.209	CC, ES, SF

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #3H - 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		Minimum Separation		Separation Factor		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	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	1.39	8,858.60	215.50	8,861.25						
100.00	100.00	78.00	78.00	0.09	0.07	1.39	8,858.60	215.50	8,861.22	8,861.07	0.15	N/A			
200.00	200.00	178.00	178.00	0.31	0.26	1.39	8,858.60	215.50	8,861.22	8,860.65	0.57	N/A			
300.00	300.00	278.00	278.00	0.54	0.49	1.39	8,858.60	215.50	8,861.22	8,860.20	1.02	8,664.657			
400.00	400.00	378.00	378.00	0.76	0.71	1.39	8,858.60	215.50	8,861.22	8,859.75	1.47	6,018.961			
500.00	500.00	478.00	478.00	0.99	0.94	1.39	8,858.60	215.50	8,861.22	8,859.30	1.92	4,611.017			
600.00	600.00	578.00	578.00	1.21	1.16	1.39	8,858.60	215.50	8,861.22	8,858.85	2.37	3,736.891			
700.00	700.00	678.00	678.00	1.44	1.39	1.39	8,858.60	215.50	8,861.22	8,858.40	2.82	3,141.370			
800.00	800.00	778.00	778.00	1.66	1.61	1.39	8,858.60	215.50	8,861.22	8,857.95	3.27	2,709.567			
900.00	900.00	878.00	878.00	1.88	1.84	1.39	8,858.60	215.50	8,861.22	8,857.50	3.72	2,382.127			
1,000.00	1,000.00	978.00	978.00	2.11	2.06	1.39	8,858.60	215.50	8,861.22	8,857.05	4.17	2,125.294			
1,100.00	1,100.00	1,078.00	1,078.00	2.33	2.28	1.39	8,858.60	215.50	8,861.22	8,856.60	4.62	1,918.452			
1,200.00	1,200.00	1,178.00	1,178.00	2.56	2.51	1.39	8,858.60	215.50	8,861.22	8,856.15	5.07	1,748.301			
1,300.00	1,300.00	1,278.00	1,278.00	2.78	2.73	1.39	8,858.60	215.50	8,861.22	8,855.70	5.52	1,605.874			
1,400.00	1,400.00	1,378.00	1,378.00	3.01	2.96	1.39	8,858.60	215.50	8,861.22	8,855.25	5.97	1,484.904			
1,500.00	1,500.00	1,478.00	1,478.00	3.23	3.18	1.39	8,858.60	215.50	8,861.22	8,854.80	6.42	1,380.883			
1,600.00	1,600.00	1,578.00	1,578.00	3.46	3.41	1.39	8,858.60	215.50	8,861.22	8,854.35	6.87	1,290.481			
1,700.00	1,700.00	17,944.70	10,300.00	3.68	147.10	54.42	926.70	1,295.20	8,767.85	8,629.03	138.82	63.161			
1,800.00	1,800.00	17,944.70	10,300.00	3.91	147.10	54.42	926.70	1,295.20	8,669.53	8,530.49	139.04	62.352			
1,900.00	1,900.00	17,944.70	10,300.00	4.13	147.10	54.42	926.70	1,295.20	8,571.25	8,431.99	139.27	61.546			
2,000.00	2,000.00	17,944.70	10,300.00	4.36	147.10	54.42	926.70	1,295.20	8,473.02	8,333.52	139.49	60.742			
2,100.00	2,100.00	17,944.70	10,300.00	4.58	147.10	54.42	926.70	1,295.20	8,374.82	8,235.10	139.72	59.942			
2,200.00	2,200.00	17,944.70	10,300.00	4.81	147.10	54.42	926.70	1,295.20	8,276.67	8,136.73	139.94	59.144			
2,300.00	2,300.00	17,944.70	10,300.00	5.03	147.10	54.42	926.70	1,295.20	8,178.56	8,038.39	140.17	58.349			
2,400.00	2,400.00	17,944.70	10,300.00	5.26	147.10	54.42	926.70	1,295.20	8,080.50	7,940.10	140.39	57.557			
2,500.00	2,500.00	17,944.70	10,300.00	5.48	147.10	54.42	926.70	1,295.20	7,982.48	7,841.87	140.62	56.768			
2,600.00	2,600.00	17,944.70	10,300.00	5.71	147.10	54.42	926.70	1,295.20	7,884.52	7,743.68	140.84	55.982			
2,700.00	2,700.00	17,944.70	10,300.00	5.93	147.10	54.42	926.70	1,295.20	7,786.60	7,645.54	141.06	55.199			
2,800.00	2,800.00	17,944.70	10,300.00	6.16	147.10	54.42	926.70	1,295.20	7,688.75	7,547.46	141.29	54.418			
2,900.00	2,900.00	17,944.70	10,300.00	6.38	147.10	54.42	926.70	1,295.20	7,590.94	7,449.43	141.51	53.641			
3,000.00	3,000.00	17,944.70	10,300.00	6.60	147.10	54.42	926.70	1,295.20	7,493.20	7,351.46	141.74	52.866			
3,100.00	3,100.00	17,944.70	10,300.00	6.83	147.10	54.42	926.70	1,295.20	7,395.51	7,253.55	141.96	52.094			
3,200.00	3,200.00	17,944.70	10,300.00	7.05	147.10	54.42	926.70	1,295.20	7,297.89	7,155.70	142.19	51.325			
3,300.00	3,300.00	17,944.70	10,300.00	7.28	147.10	54.42	926.70	1,295.20	7,200.33	7,057.92	142.41	50.559			
3,400.00	3,400.00	17,944.70	10,300.00	7.50	147.10	54.42	926.70	1,295.20	7,102.84	6,960.21	142.64	49.796			
3,500.00	3,500.00	17,944.70	10,300.00	7.73	147.10	54.42	926.70	1,295.20	7,005.43	6,862.56	142.86	49.036			
3,600.00	3,600.00	17,944.70	10,300.00	7.95	147.10	54.42	926.70	1,295.20	6,908.08	6,764.99	143.09	48.279			
3,700.00	3,700.00	17,944.70	10,300.00	8.18	147.10	54.42	926.70	1,295.20	6,810.82	6,667.50	143.31	47.524			
3,800.00	3,800.00	17,944.70	10,300.00	8.40	147.10	54.42	926.70	1,295.20	6,713.63	6,570.09	143.54	46.773			
3,900.00	3,900.00	17,944.70	10,300.00	8.63	147.10	54.42	926.70	1,295.20	6,616.52	6,472.76	143.76	46.024			
4,000.00	4,000.00	17,944.70	10,300.00	8.85	147.10	54.42	926.70	1,295.20	6,519.51	6,375.52	143.99	45.279			
4,100.00	4,100.00	17,944.70	10,300.00	9.08	147.10	54.42	926.70	1,295.20	6,422.59	6,278.37	144.21	44.536			
4,200.00	4,200.00	17,944.70	10,300.00	9.30	147.10	54.42	926.70	1,295.20	6,325.76	6,181.32	144.44	43.796			
4,300.00	4,300.00	17,944.70	10,300.00	9.53	147.10	54.42	926.70	1,295.20	6,229.03	6,084.37	144.66	43.060			
4,400.00	4,400.00	17,944.70	10,300.00	9.75	147.10	54.42	926.70	1,295.20	6,132.41	5,987.52	144.89	42.326			
4,500.00	4,500.00	17,944.70	10,300.00	9.98	147.10	54.42	926.70	1,295.20	6,035.89	5,890.78	145.11	41.595			
4,600.00	4,600.00	17,944.70	10,300.00	10.20	147.10	54.42	926.70	1,295.20	5,939.50	5,794.16	145.34	40.868			
4,700.00	4,700.00	17,944.70	10,300.00	10.43	147.10	54.42	926.70	1,295.20	5,843.22	5,697.66	145.56	40.143			
4,800.00	4,800.00	17,944.70	10,300.00	10.65	147.10	54.42	926.70	1,295.20	5,747.07	5,601.28	145.78	39.422			
4,900.00	4,900.00	17,944.70	10,300.00	10.88	147.10	54.42	926.70	1,295.20	5,651.05	5,505.04	146.01	38.703			
5,000.00	5,000.00	17,944.70	10,300.00	11.10	147.10	54.42	926.70	1,295.20	5,555.18	5,408.94	146.23	37.988			
5,100.00	5,100.00	17,944.70	10,300.00	11.32	147.10	54.42	926.70	1,295.20	5,459.45	5,312.99	146.46	37.276			

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #3H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program 0-SDI MWVD													Offset Well Error:	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	
5,200.00	5,200.00	17,944.70	10,300.00	11.55	147.10	54.42	926.70	1,295.20	5,363.88	5,217.20	146.68	36.568		
5,300.00	5,300.00	17,944.70	10,300.00	11.77	147.10	54.42	926.70	1,295.20	5,268.47	5,121.56	146.91	35.862		
5,400.00	5,400.00	17,944.70	10,300.00	12.00	147.10	54.42	926.70	1,295.20	5,173.24	5,026.11	147.13	35.160		
5,500.00	5,500.00	17,944.70	10,300.00	12.22	147.10	54.42	926.70	1,295.20	5,078.19	4,930.83	147.36	34.462		
5,600.00	5,600.00	17,944.70	10,300.00	12.45	147.10	54.42	926.70	1,295.20	4,983.33	4,835.75	147.58	33.766		
5,700.00	5,700.00	17,944.70	10,300.00	12.67	147.10	54.42	926.70	1,295.20	4,888.68	4,740.87	147.81	33.075		
5,800.00	5,800.00	17,944.70	10,300.00	12.90	147.10	54.42	926.70	1,295.20	4,794.25	4,646.21	148.03	32.386		
5,900.00	5,900.00	17,944.70	10,300.00	13.12	147.10	54.42	926.70	1,295.20	4,700.04	4,551.79	148.26	31.702		
6,000.00	6,000.00	17,944.70	10,300.00	13.35	147.10	54.42	926.70	1,295.20	4,606.08	4,457.60	148.48	31.021		
6,100.00	6,100.00	17,944.70	10,300.00	13.57	147.10	54.42	926.70	1,295.20	4,512.38	4,363.68	148.71	30.344		
6,200.00	6,200.00	17,944.70	10,300.00	13.80	147.10	54.42	926.70	1,295.20	4,418.96	4,270.03	148.93	29.671		
6,300.00	6,300.00	17,944.70	10,300.00	14.02	147.10	54.42	926.70	1,295.20	4,325.83	4,176.67	149.16	29.002		
6,400.00	6,400.00	17,944.70	10,300.00	14.25	147.10	54.42	926.70	1,295.20	4,233.01	4,083.63	149.38	28.337		
6,500.00	6,500.00	17,944.70	10,300.00	14.47	147.10	54.42	926.70	1,295.20	4,140.53	3,990.93	149.61	27.676		
6,600.00	6,600.00	17,944.70	10,300.00	14.70	147.10	54.42	926.70	1,295.20	4,048.41	3,898.58	149.83	27.020		
6,700.00	6,700.00	17,944.70	10,300.00	14.92	147.10	54.42	926.70	1,295.20	3,956.67	3,806.61	150.06	26.368		
6,800.00	6,800.00	17,944.70	10,300.00	15.15	147.10	54.42	926.70	1,295.20	3,865.33	3,715.05	150.28	25.721		
6,900.00	6,900.00	17,944.70	10,300.00	15.37	147.10	54.42	926.70	1,295.20	3,774.44	3,623.94	150.50	25.079		
7,000.00	7,000.00	17,944.70	10,300.00	15.60	147.10	54.42	926.70	1,295.20	3,684.02	3,533.29	150.73	24.441		
7,100.00	7,100.00	17,944.70	10,300.00	15.82	147.10	54.42	926.70	1,295.20	3,594.11	3,443.15	150.95	23.809		
7,200.00	7,200.00	17,944.70	10,300.00	16.04	147.10	54.42	926.70	1,295.20	3,504.74	3,353.56	151.18	23.183		
7,300.00	7,300.00	17,944.70	10,300.00	16.27	147.10	54.42	926.70	1,295.20	3,415.96	3,264.56	151.40	22.562		
7,400.00	7,400.00	17,944.70	10,300.00	16.49	147.10	54.42	926.70	1,295.20	3,327.82	3,176.19	151.63	21.947		
7,500.00	7,500.00	17,944.70	10,300.00	16.72	147.10	54.42	926.70	1,295.20	3,240.37	3,088.52	151.85	21.339		
7,600.00	7,600.00	17,944.70	10,300.00	16.94	147.10	54.42	926.70	1,295.20	3,153.66	3,001.59	152.08	20.737		
7,700.00	7,700.00	17,944.70	10,300.00	17.17	147.10	54.42	926.70	1,295.20	3,067.77	2,915.47	152.30	20.143		
7,800.00	7,800.00	17,944.70	10,300.00	17.39	147.10	54.42	926.70	1,295.20	2,982.75	2,830.22	152.53	19.555		
7,900.00	7,900.00	17,944.70	10,300.00	17.62	147.10	54.42	926.70	1,295.20	2,898.69	2,745.94	152.75	18.976		
8,000.00	8,000.00	17,944.70	10,300.00	17.84	147.10	54.42	926.70	1,295.20	2,815.67	2,662.69	152.98	18.406		
8,100.00	8,100.00	17,944.70	10,300.00	18.07	147.10	54.42	926.70	1,295.20	2,733.79	2,580.59	153.20	17.844		
8,200.00	8,200.00	17,944.70	10,300.00	18.29	147.10	54.42	926.70	1,295.20	2,653.15	2,499.72	153.43	17.293		
8,300.00	8,300.00	17,944.70	10,300.00	18.52	147.10	54.42	926.70	1,295.20	2,573.87	2,420.22	153.65	16.751		
8,400.00	8,400.00	17,944.70	10,300.00	18.74	147.10	54.42	926.70	1,295.20	2,496.08	2,342.20	153.88	16.221		
8,500.00	8,500.00	17,944.70	10,300.00	18.97	147.10	54.42	926.70	1,295.20	2,419.92	2,265.82	154.10	15.703		
8,600.00	8,600.00	17,944.70	10,300.00	19.19	147.10	54.42	926.70	1,295.20	2,345.55	2,191.22	154.33	15.199		
8,700.00	8,700.00	17,944.70	10,300.00	19.42	147.10	54.42	926.70	1,295.20	2,273.15	2,118.60	154.55	14.708		
8,800.00	8,800.00	17,944.70	10,300.00	19.64	147.10	54.42	926.70	1,295.20	2,202.91	2,048.13	154.78	14.233		
8,900.00	8,900.00	17,944.70	10,300.00	19.87	147.10	54.42	926.70	1,295.20	2,135.04	1,980.04	155.00	13.774		
9,000.00	9,000.00	17,944.70	10,300.00	20.09	147.10	54.42	926.70	1,295.20	2,069.78	1,914.56	155.22	13.334		
9,100.00	9,100.00	17,944.70	10,300.00	20.32	147.10	54.42	926.70	1,295.20	2,007.39	1,851.94	155.45	12.913		
9,200.00	9,200.00	17,944.70	10,300.00	20.54	147.10	54.42	926.70	1,295.20	1,948.13	1,792.45	155.67	12.514		
9,300.00	9,300.00	17,944.70	10,300.00	20.77	147.10	54.42	926.70	1,295.20	1,892.30	1,736.40	155.90	12.138		
9,400.00	9,400.00	17,944.70	10,300.00	20.99	147.10	54.42	926.70	1,295.20	1,840.22	1,684.09	156.12	11.787		
9,500.00	9,500.00	17,944.70	10,300.00	21.21	147.10	54.42	926.70	1,295.20	1,792.21	1,635.86	156.35	11.463		
9,600.00	9,600.00	17,944.70	10,300.00	21.44	147.10	54.42	926.70	1,295.20	1,748.60	1,592.03	156.57	11.168		
9,700.00	9,700.00	17,944.70	10,300.00	21.66	147.10	54.42	926.70	1,295.20	1,709.74	1,552.94	156.80	10.904		
9,800.00	9,799.80	17,944.70	10,300.00	21.89	147.10	57.17	926.70	1,295.20	1,673.47	1,514.02	159.46	10.495		
9,900.00	9,897.39	17,944.70	10,300.00	22.10	147.10	60.86	926.70	1,295.20	1,633.93	1,470.45	163.48	9.995		
10,000.00	9,989.79	17,944.70	10,300.00	22.31	147.10	65.01	926.70	1,295.20	1,591.74	1,424.64	167.10	9.526		
10,100.00	10,074.21	17,944.70	10,300.00	22.54	147.10	69.49	926.70	1,295.20	1,548.01	1,377.90	170.11	9.100		
10,200.00	10,148.09	17,944.70	10,300.00	22.82	147.10	74.14	926.70	1,295.20	1,504.02	1,331.62	172.40	8.724		
10,300.00	10,209.17	17,944.70	10,300.00	23.17	147.10	78.76	926.70	1,295.20	1,461.12	1,287.17	173.95	8.400		

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

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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 North Bell Lake Unit 6 2BSS - #3H - OH - Plan #1													Offset Site Error:
Survey Program: 0-SDI MWD													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	
10,400.00	10,255.60	17,944.70	10,300.00	23.61	147.10	83.11	926.70	1,295.20	1,420.78	1,245.90	174.88	8.124	
10,500.00	10,285.97	17,944.70	10,300.00	24.15	147.10	86.99	926.70	1,295.20	1,384.50	1,209.09	175.41	7.893	
10,600.00	10,299.36	17,944.70	10,300.00	24.80	147.10	90.22	926.70	1,295.20	1,353.74	1,177.96	175.79	7.701	
10,700.00	10,300.00	17,944.70	10,300.00	25.54	147.10	90.97	926.70	1,295.20	1,329.73	1,153.34	176.39	7.539	
10,800.00	10,300.00	17,944.70	10,300.00	26.38	147.10	90.97	926.70	1,295.20	1,312.93	1,135.77	177.16	7.411	
10,900.00	10,300.00	17,944.70	10,300.00	27.32	147.10	90.97	926.70	1,295.20	1,303.60	1,125.58	178.02	7.323	
10,974.32	10,300.00	17,944.70	10,300.00	28.08	147.10	90.97	926.70	1,295.20	1,301.61	1,122.91	178.71	7.283	CC, ES, SF
11,000.00	10,300.00	17,925.49	10,300.00	28.34	146.76	90.97	945.91	1,295.20	1,301.77	1,123.16	178.61	7.288	
11,100.00	10,300.00	17,825.49	10,300.00	29.45	144.98	90.97	1,045.90	1,295.20	1,302.45	1,124.67	177.78	7.326	
11,200.00	10,300.00	17,725.49	10,300.00	30.62	143.19	90.97	1,145.90	1,295.20	1,303.12	1,126.11	177.02	7.362	
11,300.00	10,300.00	17,625.50	10,300.00	31.85	141.41	90.97	1,245.90	1,295.20	1,303.79	1,127.48	176.31	7.395	
11,400.00	10,300.00	17,525.50	10,300.00	33.14	139.63	90.97	1,345.90	1,295.20	1,304.47	1,128.80	175.67	7.426	
11,500.00	10,300.00	17,425.50	10,300.00	34.47	137.86	90.97	1,445.89	1,295.20	1,305.14	1,130.08	175.07	7.455	
11,600.00	10,300.00	17,325.50	10,300.00	35.85	136.08	90.97	1,545.89	1,295.20	1,305.82	1,131.31	174.51	7.483	
11,700.00	10,300.00	17,225.51	10,300.00	37.27	134.30	90.96	1,645.89	1,295.19	1,306.49	1,132.50	174.00	7.509	
11,800.00	10,300.00	17,125.51	10,300.00	38.72	132.53	90.96	1,745.89	1,295.19	1,307.17	1,133.65	173.52	7.533	
11,900.00	10,300.00	17,025.51	10,300.00	40.20	130.75	90.96	1,845.89	1,295.19	1,307.84	1,134.77	173.07	7.557	
12,000.00	10,300.00	16,925.51	10,300.00	41.71	128.98	90.96	1,945.88	1,295.19	1,308.51	1,135.87	172.64	7.579	
12,100.00	10,300.00	16,825.51	10,300.00	43.24	127.21	90.96	2,045.88	1,295.19	1,309.19	1,136.94	172.25	7.601	
12,200.00	10,300.00	16,725.52	10,300.00	44.79	125.44	90.96	2,145.88	1,295.19	1,309.86	1,137.99	171.87	7.621	
12,300.00	10,300.00	16,625.52	10,300.00	46.37	123.67	90.96	2,245.88	1,295.19	1,310.54	1,139.02	171.52	7.641	
12,400.00	10,300.00	16,525.52	10,300.00	47.96	121.90	90.96	2,345.87	1,295.19	1,311.21	1,140.03	171.19	7.660	
12,500.00	10,300.00	16,425.52	10,300.00	49.57	120.14	90.96	2,445.87	1,295.19	1,311.89	1,141.02	170.87	7.678	
12,600.00	10,300.00	16,325.53	10,300.00	51.19	118.37	90.96	2,545.87	1,295.19	1,312.56	1,141.99	170.57	7.695	
12,700.00	10,300.00	16,225.53	10,300.00	52.82	116.61	90.96	2,645.87	1,295.19	1,313.23	1,142.96	170.28	7.712	
12,800.00	10,300.00	16,125.53	10,300.00	54.47	114.85	90.96	2,745.86	1,295.19	1,313.91	1,143.91	170.00	7.729	
12,900.00	10,300.00	16,025.53	10,300.00	56.13	113.09	90.96	2,845.86	1,295.19	1,314.58	1,144.84	169.74	7.745	
13,000.00	10,300.00	15,925.54	10,300.00	57.80	111.34	90.96	2,945.86	1,295.19	1,315.26	1,145.77	169.49	7.760	
13,100.00	10,300.00	15,825.54	10,300.00	59.47	109.58	90.96	3,045.86	1,295.19	1,315.93	1,146.68	169.25	7.775	
13,200.00	10,300.00	15,725.54	10,300.00	61.16	107.83	90.96	3,145.86	1,295.18	1,316.61	1,147.59	169.02	7.790	
13,300.00	10,300.00	15,625.54	10,300.00	62.85	106.08	90.96	3,245.85	1,295.18	1,317.28	1,148.48	168.80	7.804	
13,400.00	10,300.00	15,525.54	10,300.00	64.55	104.34	90.96	3,345.85	1,295.18	1,317.95	1,149.37	168.58	7.818	
13,500.00	10,300.00	15,425.55	10,300.00	66.26	102.59	90.96	3,445.85	1,295.18	1,318.63	1,150.25	168.38	7.831	
13,600.00	10,300.00	15,325.55	10,300.00	67.97	100.85	90.96	3,545.85	1,295.18	1,319.30	1,151.12	168.18	7.845	
13,700.00	10,300.00	15,225.55	10,300.00	69.69	99.11	90.96	3,645.84	1,295.18	1,319.98	1,151.99	167.99	7.857	
13,800.00	10,300.00	15,125.55	10,300.00	71.41	97.37	90.95	3,745.84	1,295.18	1,320.65	1,152.84	167.81	7.870	
13,900.00	10,300.00	15,025.56	10,300.00	73.14	95.64	90.95	3,845.84	1,295.18	1,321.33	1,153.69	167.63	7.882	
14,000.00	10,300.00	14,925.56	10,300.00	74.87	93.91	90.95	3,945.84	1,295.18	1,322.00	1,154.54	167.46	7.894	
14,100.00	10,300.00	14,825.56	10,300.00	76.61	92.19	90.95	4,045.84	1,295.18	1,322.67	1,155.37	167.30	7.906	
14,200.00	10,300.00	14,725.56	10,300.00	78.35	90.46	90.95	4,145.83	1,295.18	1,323.35	1,156.20	167.15	7.917	
14,300.00	10,300.00	14,625.56	10,300.00	80.10	88.74	90.95	4,245.83	1,295.18	1,324.02	1,156.97	167.05	7.926	
14,400.00	10,300.00	14,525.57	10,300.00	81.84	87.03	90.95	4,345.83	1,295.18	1,324.70	1,157.65	167.05	7.930	
14,500.00	10,300.00	14,425.57	10,300.00	83.60	85.32	90.95	4,445.83	1,295.18	1,325.37	1,158.32	167.05	7.934	
14,600.00	10,300.00	14,325.57	10,300.00	85.35	83.61	90.95	4,545.82	1,295.17	1,326.05	1,158.99	167.06	7.938	
14,700.00	10,300.00	14,225.57	10,300.00	87.11	81.91	90.95	4,645.82	1,295.17	1,326.72	1,159.65	167.07	7.941	
14,800.00	10,300.00	14,125.58	10,300.00	88.87	80.22	90.95	4,745.82	1,295.17	1,327.39	1,160.30	167.10	7.944	
14,900.00	10,300.00	14,025.58	10,300.00	90.63	78.53	90.95	4,845.82	1,295.17	1,328.07	1,160.94	167.12	7.947	
15,000.00	10,300.00	13,925.58	10,300.00	92.39	76.85	90.95	4,945.81	1,295.17	1,328.74	1,161.58	167.16	7.949	
15,100.00	10,300.00	13,825.58	10,300.00	94.16	75.17	90.95	5,045.81	1,295.17	1,329.42	1,162.22	167.20	7.951	
15,200.00	10,300.00	13,725.59	10,300.00	95.93	73.50	90.95	5,145.81	1,295.17	1,330.09	1,162.84	167.25	7.953	
15,300.00	10,300.00	13,625.59	10,300.00	97.70	71.83	90.95	5,245.81	1,295.17	1,330.77	1,163.46	167.30	7.954	
15,400.00	10,300.00	13,525.59	10,300.00	99.47	70.18	90.95	5,345.81	1,295.17	1,331.44	1,164.08	167.36	7.955	

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 #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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: North Bell Lake Unit 6 2BSS - #3H - OH - Plan #1													Offset Site Error
Survey Program: 0-SDI MWD													Offset Well Error
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
15,500.00	10,300.00	13,425.59	10,300.00	101.25	68.53	90.95	5,445.80	1,295.17	1,332.11	1,164.68	167.43	7.956	
15,600.00	10,300.00	13,325.59	10,300.00	103.02	66.89	90.95	5,545.80	1,295.17	1,332.79	1,165.28	167.51	7.956	
15,700.00	10,300.00	13,225.60	10,300.00	104.80	65.27	90.95	5,645.80	1,295.17	1,333.46	1,165.87	167.60	7.956	
15,800.00	10,300.00	13,125.60	10,300.00	106.58	63.65	90.94	5,745.80	1,295.17	1,334.14	1,166.44	167.69	7.956	
15,900.00	10,300.00	13,025.60	10,300.00	108.36	62.04	90.94	5,845.79	1,295.17	1,334.81	1,167.01	167.80	7.955	
16,000.00	10,300.00	12,925.60	10,300.00	110.15	60.45	90.94	5,945.79	1,295.16	1,335.49	1,167.57	167.91	7.953	
16,100.00	10,300.00	12,825.61	10,300.00	111.93	58.86	90.94	6,045.79	1,295.16	1,336.16	1,168.12	168.04	7.952	
16,200.00	10,300.00	12,725.61	10,300.00	113.71	57.30	90.94	6,145.79	1,295.16	1,336.83	1,168.66	168.17	7.949	
16,300.00	10,300.00	12,625.61	10,300.00	115.50	55.74	90.94	6,245.79	1,295.16	1,337.51	1,169.18	168.32	7.946	
16,400.00	10,300.00	12,525.61	10,300.00	117.29	54.21	90.94	6,345.78	1,295.16	1,338.18	1,169.70	168.49	7.942	
16,500.00	10,300.00	12,425.61	10,300.00	119.08	52.69	90.94	6,445.78	1,295.16	1,338.86	1,170.19	168.67	7.938	
16,600.00	10,300.00	12,325.62	10,300.00	120.87	51.19	90.94	6,545.78	1,295.16	1,339.53	1,170.67	168.86	7.933	
16,700.00	10,300.00	12,225.62	10,300.00	122.66	49.72	90.94	6,645.78	1,295.16	1,340.21	1,171.13	169.07	7.927	
16,800.00	10,300.00	12,125.62	10,300.00	124.45	48.27	90.94	6,745.77	1,295.16	1,340.88	1,171.58	169.30	7.920	
16,900.00	10,300.00	12,025.62	10,300.00	126.24	46.84	90.94	6,845.77	1,295.16	1,341.55	1,172.00	169.55	7.912	
17,000.00	10,300.00	11,925.63	10,300.00	128.03	45.44	90.94	6,945.77	1,295.16	1,342.23	1,172.40	169.83	7.903	
17,100.00	10,300.00	11,825.63	10,300.00	129.83	44.07	90.94	7,045.77	1,295.16	1,342.90	1,172.77	170.13	7.893	
17,200.00	10,300.00	11,725.63	10,300.00	131.62	42.74	90.94	7,145.76	1,295.16	1,343.58	1,173.12	170.46	7.882	
17,300.00	10,300.00	11,625.63	10,300.00	133.42	41.44	90.94	7,245.76	1,295.16	1,344.25	1,173.43	170.82	7.869	
17,400.00	10,300.00	11,525.64	10,300.00	135.21	40.18	90.94	7,345.76	1,295.15	1,344.93	1,173.71	171.22	7.855	
17,500.00	10,300.00	11,425.64	10,300.00	137.01	38.97	90.94	7,445.76	1,295.15	1,345.60	1,173.94	171.66	7.839	
17,600.00	10,300.00	11,325.64	10,300.00	138.81	37.81	90.94	7,545.76	1,295.15	1,346.27	1,174.13	172.14	7.821	
17,700.00	10,300.00	11,225.64	10,300.00	140.61	36.70	90.94	7,645.75	1,295.15	1,346.95	1,174.28	172.67	7.801	
17,800.00	10,300.00	11,125.64	10,300.00	142.40	35.65	90.94	7,745.75	1,295.15	1,347.62	1,174.36	173.26	7.778	
17,900.00	10,300.00	11,025.65	10,300.00	144.20	34.66	90.93	7,845.75	1,295.15	1,348.30	1,174.38	173.91	7.753	
18,000.00	10,300.00	10,925.65	10,300.00	146.00	33.75	90.93	7,945.75	1,295.15	1,348.97	1,174.34	174.64	7.724	
18,100.00	10,300.00	10,825.65	10,300.00	147.81	32.91	90.93	8,045.74	1,295.15	1,349.65	1,174.21	175.44	7.693	
18,200.00	10,300.00	10,725.65	10,300.00	149.61	32.15	90.93	8,145.74	1,295.15	1,350.32	1,174.00	176.32	7.658	
18,231.13	10,300.00	10,694.12	10,299.90	150.17	31.93	90.93	8,177.28	1,295.15	1,350.53	1,173.92	176.61	7.647	

Company:	Kaiser - Francis Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Lea Co, NM (Nad 27 NME)	TVD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Reference Site:	North Bell Lake Unit 6 2BSS	MD Reference:	KB= 23' @ 3479.00usft (Cactus 170)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#1H	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' @ 3479.00usft (Cactus 170)

Offset Depths are relative to Offset Datum

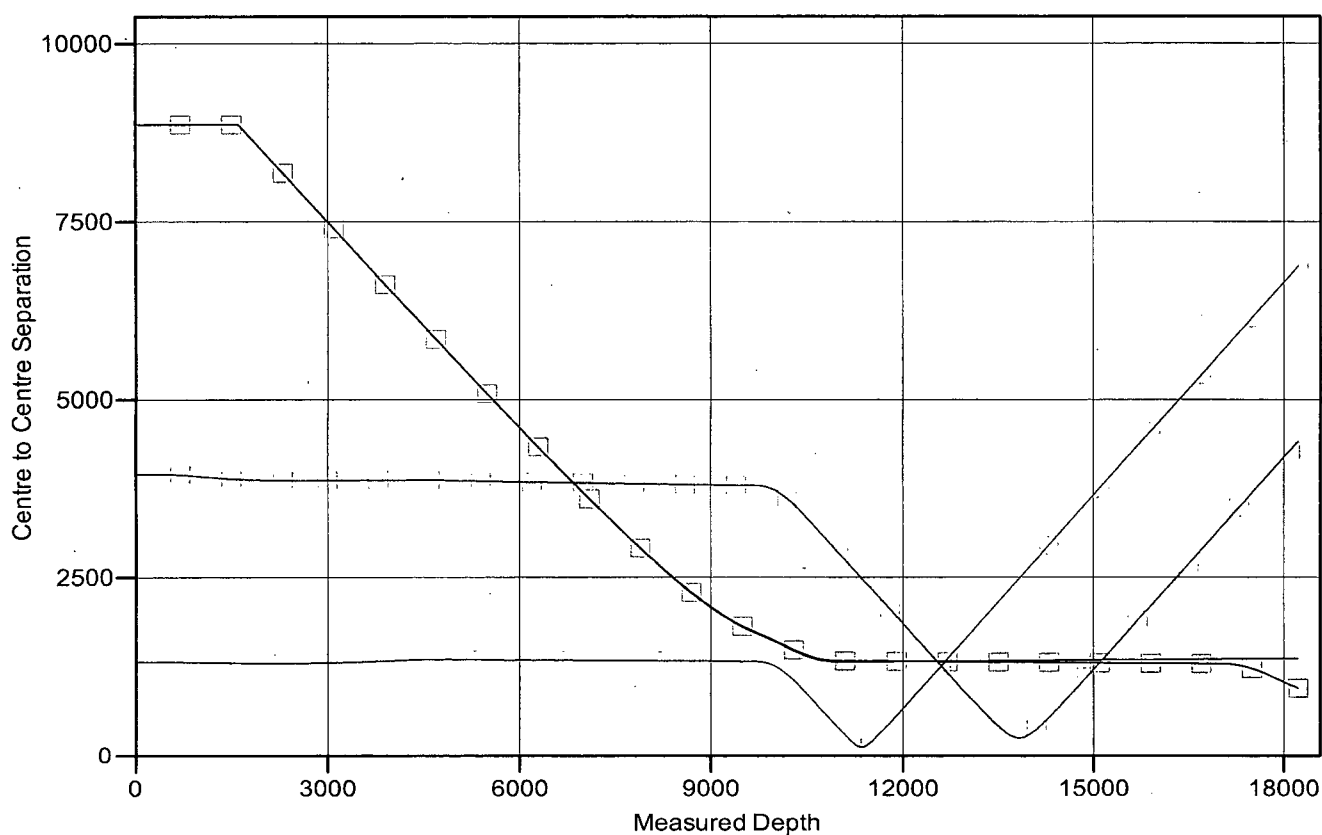
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: #1H

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

Grid Convergence at Surface is: 0.44°

Ladder Plot



LEGEND

- #3, OH, OH V0
- #2H, OH, Plan #1 V0
- Bell Lake Unit #22, Wellbore #1, SDI Gyro V0
- ✕ #3H, OH, Plan #1 V0

Company: Kaiser - Francis Oil Company
Project: Lea Co, NM (Nad 27 NME)
Reference Site: North Bell Lake Unit 6 2BSS
Site Error: 0.00 usft
Reference Well: #1H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method
Output errors are at
Database:
Offset TVD Reference:

Well #1H
 KB= 23' @ 3479.00usft (Cactus 170)
 KB= 23' @ 3479.00usft (Cactus 170)
 Grid
 Minimum Curvature
 2.00 sigma
 Midland District
 Offset Datum

Reference Depths are relative to KB= 23' @ 3479.00usft (Cactus 170)

Offset Depths are relative to Offset Datum

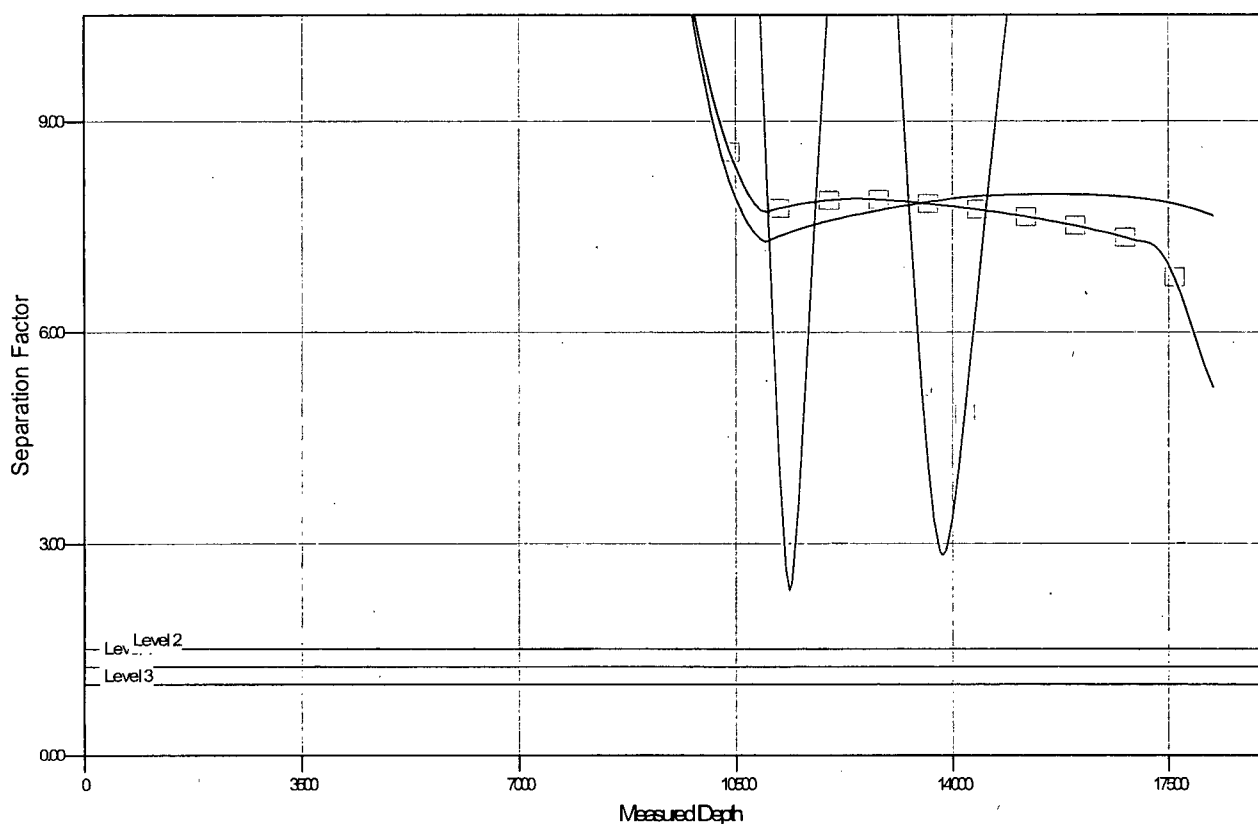
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: #1H

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

Grid Convergence at Surface is: 0.44°

Separation Factor Plot



LEGEND

- #3, OH, OH V0
- #2H, OH, Plan #1 V0
- Bell Lake Unit #22, Wellbore #1, SDI Gyro V0
- ✕ #3H, OH, Plan #1 V0

PACKING LIST



Ship From
Midwest Hose & Specialty, Inc.
3312 S I-35 Service Road
Oklahoma City OK 73129
USA

Here

Ship To:
Cactus Drilling Co., LLC - OKC
ATTN: Andrade Rig#138 Asset# M13870
8300 SW 15th
Oklahoma City OK 73128
USA

Bill To:
Cactus Drilling Co., LLC
ATTN: Accounts Payable
8300 SW 15th Street
Oklahoma City OK 73128-9594
USA

Payment Terms	1% 10 - NET 30 DAYS (1NET30)
Ship Method	DELIVR
Freight Terms	Prepaid
Cust Ship-to	CACTUS01
Cartons	1
Weight	0.00
Tracking Nbrs	

Shipping Notes:

Cust phone: 577-5347

Written by: MMEYERS

Customer PO: 36601 Asset#M13870

Mark Number: Brent Delivery

Packing List #:00326751

INVOICE REQUIREMENTS:

1. Purchase Order Number and Rig # Required
2. Proof of Delivery Required

By signing this document, you agree that the product listed is in apparent good order, count, and condition, except otherwise noted at the time of receipt. Midwest Hose & Specialty, Inc. is not responsible for any loss or damage to the items while in transit.

Signature and Date

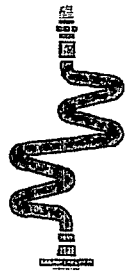
Print Name

Phone Number

HOBBES OIL
JAN 25 2016
RECEIVED

LINE	ITEM / DESCRIPTION	UOM	QUANTITY ORDERED	QTY PREV SHIPPED	QUANTITY BACK ORDERED	QUANTITY THIS SHIPMENT
0010	CK64-SS-10K-6410K-6410K-35.00' FT-W/LIFTERS Choke & Kill 10K with 5K/10K Flanges Your item # is: ASSET# M13870 4" x 35' ft 10,000 WP 15,000 Test Stainless Steel Armor Covered Choke & Kill Hose Assembly coupled with Buttwelded 4-1/16" 10K Flanges and Lifters on each end. Complete with Hydrostatic Test Certificate Procedure No: MHSI-P-5.7.7.1 Rev0.0 Procedure No: MHSI-P-5.9 Rev1.0 SOP 005 Rev0.0 SOP 010 Rev1.0 SOP 011 Rev1.0 SOP 014 Rev0.0	EA	1.00	0.00	0.00	1.00
Unit Price: 29,500.00						Ext. Price: 29,500.00

EXTRA COPY



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2015

Customer: Cactus

Pick Ticket #: 326751

Hose Specifications

Hose Type
Mud
I.D.
4"

Length
35'
O.D.
6.05"

Working Pressure
10000 PSI

Burst Pressure
Standard Safety Multiplier Applies

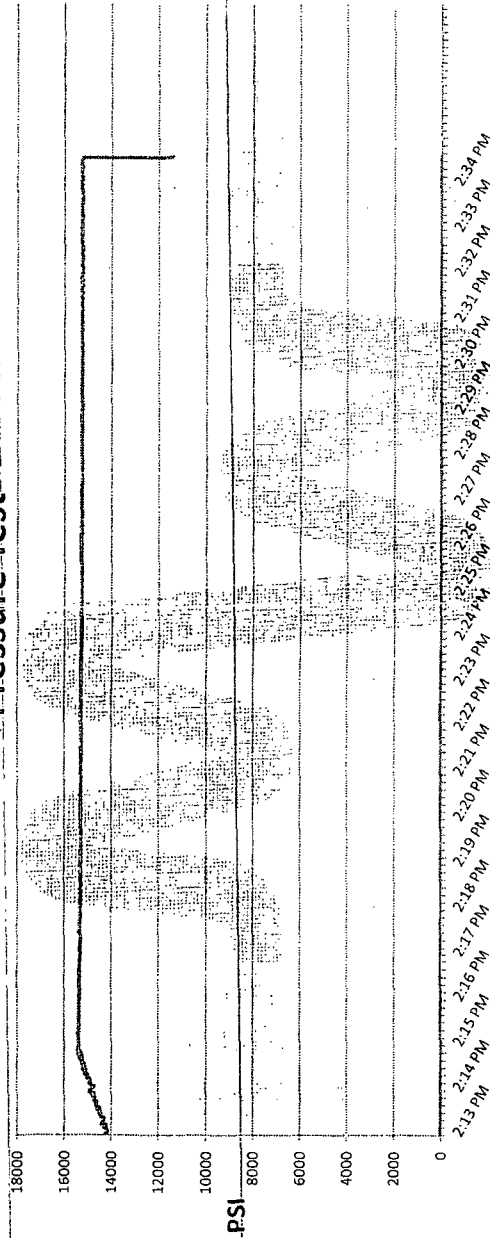
Verification

Type of Fitting
4 1/16 10K
Die Size
6.56"

Coupling Method
Swage
Final O.D.
6.62"

Hose Serial #
11142
Hose Assembly Serial #
326751

Pressure Test



Test Pressure
15000 PSI

Time Held at Test Pressure
20 3/4 Minutes

Actual Burst Pressure

Peak Pressure
15512 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: James Hawkins

Approved By: Kim Thomas

[Signature]

[Signature]



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	Cactus	Hose Assembly Type	Choke & Kill
MWH Sales Representative	Matt Meyers	Certification	API 7K/FSL Level 2
Date Assembled	12/8/2015	Hose Grade	Mud
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	272344	Hose Lot # and Date Code	11142 11/13
Customer Purchase Order #	Rig#138	Hose I.D. (Inches)	4"
Assembly Serial # (Pick Ticket #)	326751	Hose O.D. (Inches)	6.05"
Hose Assembly Length	35'	Armor (yes/no)	Yes
Fittings			
End A		End B	
Stem (Part and Revision #)	R4.0X64WB	Stem (Part and Revision #)	R4.0X64WB
Stem (Heat #)	A141853	Stem (Heat #)	A141853
Ferrule (Part and Revision #)	RF4.0	Ferrule (Part and Revision #)	RF4.0
Ferrule (Heat #)	J1841	Ferrule (Heat #)	J1841
Connection (Flange Hammer Union Part)	4-1/16-10K	Connection (Part #)	4-1/16-10K
Connection (Heat #)	1503H0320	Connection (Heat #)	1503H0320
Nut (Part #)	N/A	Nut (Part #)	N/A
Nut (Heat #)	N/A	Nut (Heat #)	N/A
Dies Used	6.56"	Dies Used	6.56"
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	20 3/4		
Date Tested	Tested By	Approved By	
12/8/2015			



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **Cactus**

Customer P.O.# **Rig#138**

Sales Order # **272344**

Date Assembled: **12/8/2015**

Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **326751**

Hose Lot # and Date Code **11142 11/13**

Hose Working Pressure (psi) **10000**

Test Pressure (psi) **15000**

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By

Kim Thomas

Date

12/8/2015