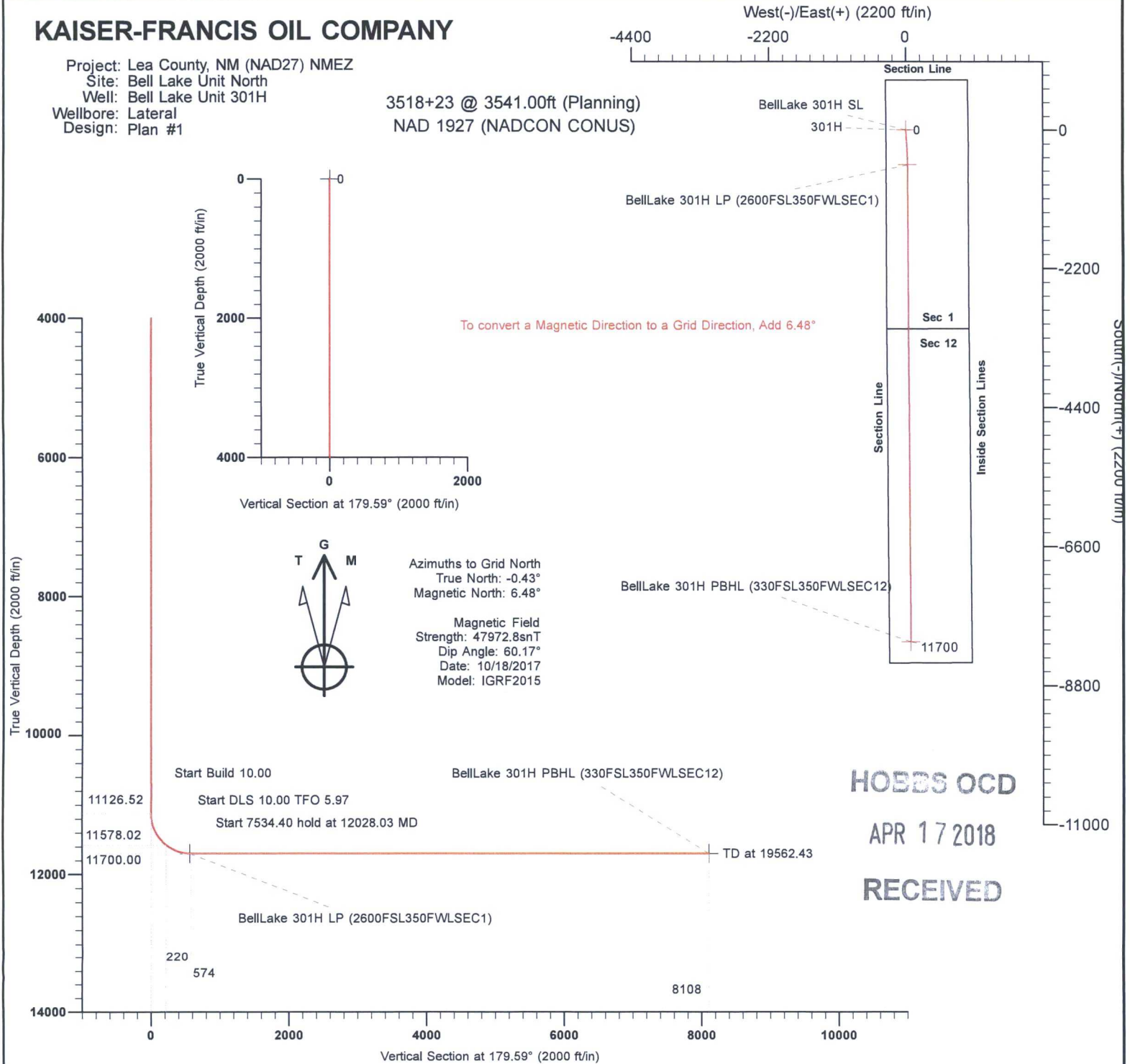


KAISER-FRANCIS OIL COMPANY

Project: Lea County, NM (NAD27) NMEZ
 Site: Bell Lake Unit North
 Well: Bell Lake Unit 301H
 Wellbore: Lateral
 Design: Plan #1

3518+23 @ 3541.00ft (Planning)
 NAD 1927 (NADCON CONUS)



HOBS OCD

APR 17 2018

RECEIVED

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BellLake 301H SL	0.00	0.00	0.00	486506.90	747171.90	Point
BellLake 301H LP (2600FSL350FWLSEC1)	11700.00	-557.31	28.37	485949.59	747200.27	Point
BellLake 301H PBHL (330FSL350FWLSEC12)	11700.00	-8107.70	83.00	478399.20	747254.90	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11126.52	0.00	0.00	11126.52	0.00	0.00	0.00	0.00	0.00	
11646.52	52.00	175.90	11578.02	-219.65	15.74	10.00	175.90	219.75	
12028.03	90.00	179.58	11700.00	-573.50	28.34	10.00	5.97	573.69	
19562.43	90.00	179.58	11700.00	-8107.70	83.00	0.00	0.00	8108.09	BellLake 301H PBHL (330FSL350FWLSEC12)

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Project	Lea County, NM (NAD27) NMEZ		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Bell Lake Unit, Centered on 401H				
Site Position:		Northing:	486,526.80 ft	Latitude:	32° 20' 6.134 N
From:	Map	Easting:	747,171.80 ft	Longitude:	103° 31' 59.102 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	0.43

Well	Bell Lake Unit 301H - Slot 301H					
Well Position	+N/-S	-19.90 ft	Northing:	486,506.90 ft	Latitude:	32° 20' 5.937 N
	+E/-W	0.10 ft	Easting:	747,171.90 ft	Longitude:	103° 31' 59.102 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	3,518.00 ft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/18/17	6.91	60.17	47,973

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.59

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,126.52	0.00	0.00	11,126.52	0.00	0.00	0.00	0.00	0.00	0.00	
11,646.52	52.00	175.90	11,578.02	-219.65	15.74	10.00	10.00	0.00	175.90	
12,028.03	90.00	179.58	11,700.00	-573.50	28.34	10.00	9.96	0.97	5.97	
19,562.43	90.00	179.58	11,700.00	-8,107.70	83.00	0.00	0.00	0.00	0.00	BellLake 301H PBHL

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BellLake 401H SL - BellLake 301H SL									
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

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00
11,126.52	0.00	0.00	11,126.52	0.00	0.00	0.00	0.00	0.00	0.00
11,150.00	2.35	175.90	11,149.99	-0.48	0.03	0.48	10.00	10.00	0.00
11,200.00	7.35	175.90	11,199.80	-4.69	0.34	4.70	10.00	10.00	0.00
11,250.00	12.35	175.90	11,249.05	-13.22	0.95	13.23	10.00	10.00	0.00
11,300.00	17.35	175.90	11,297.36	-26.00	1.86	26.01	10.00	10.00	0.00
11,350.00	22.35	175.90	11,344.38	-42.92	3.08	42.94	10.00	10.00	0.00
11,400.00	27.35	175.90	11,389.73	-63.87	4.58	63.91	10.00	10.00	0.00
11,450.00	32.35	175.90	11,433.09	-88.69	6.36	88.73	10.00	10.00	0.00
11,500.00	37.35	175.90	11,474.11	-117.18	8.40	117.23	10.00	10.00	0.00
11,550.00	42.35	175.90	11,512.48	-149.12	10.69	149.19	10.00	10.00	0.00
11,600.00	47.35	175.90	11,547.92	-184.28	13.21	184.37	10.00	10.00	0.00
11,646.52	52.00	175.90	11,578.02	-219.65	15.74	219.75	10.00	10.00	0.00
11,650.00	52.35	175.95	11,580.15	-222.39	15.94	222.50	10.00	9.95	1.31
11,700.00	57.32	176.56	11,608.94	-263.16	18.60	263.29	10.00	9.95	1.23
11,750.00	62.30	177.11	11,634.08	-306.30	20.98	306.44	10.00	9.95	1.10
11,800.00	67.28	177.61	11,655.37	-351.48	23.06	351.63	10.00	9.96	1.00
11,850.00	72.26	178.08	11,672.65	-398.34	24.82	398.51	10.00	9.96	0.93
11,900.00	77.24	178.52	11,685.80	-446.54	26.26	446.72	10.00	9.96	0.88
11,950.00	82.22	178.94	11,694.71	-495.72	27.35	495.90	10.00	9.97	0.85
12,000.00	87.21	179.35	11,699.32	-545.48	28.09	545.67	10.00	9.97	0.83
12,011.84	88.39	179.45	11,699.77	-557.31	28.21	557.50	10.00	9.97	0.82
BellLake 301H LP (2600FSL350FWLSEC1)									
12,016.06	88.81	179.49	11,699.87	-561.53	28.25	561.72	10.00	9.97	0.82
BellLake 401H LP (2600FSL350FWLSEC1)									
12,028.03	90.00	179.58	11,700.00	-573.50	28.34	573.69	10.00	9.97	0.82
12,100.00	90.00	179.58	11,700.00	-645.47	28.87	645.66	0.00	0.00	0.00
12,200.00	90.00	179.58	11,700.00	-745.47	29.59	745.66	0.00	0.00	0.00
12,300.00	90.00	179.58	11,700.00	-845.46	30.32	845.66	0.00	0.00	0.00
12,400.00	90.00	179.58	11,700.00	-945.46	31.04	945.66	0.00	0.00	0.00
12,500.00	90.00	179.58	11,700.00	-1,045.46	31.77	1,045.66	0.00	0.00	0.00
12,600.00	90.00	179.58	11,700.00	-1,145.46	32.49	1,145.66	0.00	0.00	0.00
12,700.00	90.00	179.58	11,700.00	-1,245.45	33.22	1,245.66	0.00	0.00	0.00
12,800.00	90.00	179.58	11,700.00	-1,345.45	33.94	1,345.66	0.00	0.00	0.00
12,900.00	90.00	179.58	11,700.00	-1,445.45	34.67	1,445.66	0.00	0.00	0.00
13,000.00	90.00	179.58	11,700.00	-1,545.44	35.40	1,545.66	0.00	0.00	0.00
13,100.00	90.00	179.58	11,700.00	-1,645.44	36.12	1,645.66	0.00	0.00	0.00
13,200.00	90.00	179.58	11,700.00	-1,745.44	36.85	1,745.66	0.00	0.00	0.00
13,300.00	90.00	179.58	11,700.00	-1,845.44	37.57	1,845.66	0.00	0.00	0.00
13,400.00	90.00	179.58	11,700.00	-1,945.43	38.30	1,945.66	0.00	0.00	0.00
13,500.00	90.00	179.58	11,700.00	-2,045.43	39.02	2,045.66	0.00	0.00	0.00
13,600.00	90.00	179.58	11,700.00	-2,145.43	39.75	2,145.66	0.00	0.00	0.00
13,700.00	90.00	179.58	11,700.00	-2,245.43	40.47	2,245.66	0.00	0.00	0.00
13,800.00	90.00	179.58	11,700.00	-2,345.42	41.20	2,345.66	0.00	0.00	0.00
13,900.00	90.00	179.58	11,700.00	-2,445.42	41.92	2,445.66	0.00	0.00	0.00
14,000.00	90.00	179.58	11,700.00	-2,545.42	42.65	2,545.66	0.00	0.00	0.00
14,100.00	90.00	179.58	11,700.00	-2,645.42	43.37	2,645.66	0.00	0.00	0.00
14,200.00	90.00	179.58	11,700.00	-2,745.41	44.10	2,745.66	0.00	0.00	0.00
14,300.00	90.00	179.58	11,700.00	-2,845.41	44.83	2,845.66	0.00	0.00	0.00
14,400.00	90.00	179.58	11,700.00	-2,945.41	45.55	2,945.66	0.00	0.00	0.00

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,500.00	90.00	179.58	11,700.00	-3,045.41	46.28	3,045.66	0.00	0.00	0.00
14,600.00	90.00	179.58	11,700.00	-3,145.40	47.00	3,145.66	0.00	0.00	0.00
14,700.00	90.00	179.58	11,700.00	-3,245.40	47.73	3,245.66	0.00	0.00	0.00
14,800.00	90.00	179.58	11,700.00	-3,345.40	48.45	3,345.66	0.00	0.00	0.00
14,900.00	90.00	179.58	11,700.00	-3,445.39	49.18	3,445.66	0.00	0.00	0.00
15,000.00	90.00	179.58	11,700.00	-3,545.39	49.90	3,545.66	0.00	0.00	0.00
15,100.00	90.00	179.58	11,700.00	-3,645.39	50.63	3,645.66	0.00	0.00	0.00
15,200.00	90.00	179.58	11,700.00	-3,745.39	51.35	3,745.66	0.00	0.00	0.00
15,300.00	90.00	179.58	11,700.00	-3,845.38	52.08	3,845.66	0.00	0.00	0.00
15,400.00	90.00	179.58	11,700.00	-3,945.38	52.81	3,945.66	0.00	0.00	0.00
15,500.00	90.00	179.58	11,700.00	-4,045.38	53.53	4,045.66	0.00	0.00	0.00
15,600.00	90.00	179.58	11,700.00	-4,145.38	54.26	4,145.66	0.00	0.00	0.00
15,700.00	90.00	179.58	11,700.00	-4,245.37	54.98	4,245.66	0.00	0.00	0.00
15,800.00	90.00	179.58	11,700.00	-4,345.37	55.71	4,345.66	0.00	0.00	0.00
15,900.00	90.00	179.58	11,700.00	-4,445.37	56.43	4,445.66	0.00	0.00	0.00
16,000.00	90.00	179.58	11,700.00	-4,545.37	57.16	4,545.66	0.00	0.00	0.00
16,100.00	90.00	179.58	11,700.00	-4,645.36	57.88	4,645.66	0.00	0.00	0.00
16,200.00	90.00	179.58	11,700.00	-4,745.36	58.61	4,745.66	0.00	0.00	0.00
16,300.00	90.00	179.58	11,700.00	-4,845.36	59.33	4,845.66	0.00	0.00	0.00
16,400.00	90.00	179.58	11,700.00	-4,945.36	60.06	4,945.66	0.00	0.00	0.00
16,500.00	90.00	179.58	11,700.00	-5,045.35	60.78	5,045.66	0.00	0.00	0.00
16,600.00	90.00	179.58	11,700.00	-5,145.35	61.51	5,145.66	0.00	0.00	0.00
16,700.00	90.00	179.58	11,700.00	-5,245.35	62.24	5,245.66	0.00	0.00	0.00
16,800.00	90.00	179.58	11,700.00	-5,345.34	62.96	5,345.66	0.00	0.00	0.00
16,900.00	90.00	179.58	11,700.00	-5,445.34	63.69	5,445.66	0.00	0.00	0.00
17,000.00	90.00	179.58	11,700.00	-5,545.34	64.41	5,545.66	0.00	0.00	0.00
17,100.00	90.00	179.58	11,700.00	-5,645.34	65.14	5,645.66	0.00	0.00	0.00
17,200.00	90.00	179.58	11,700.00	-5,745.33	65.86	5,745.66	0.00	0.00	0.00
17,300.00	90.00	179.58	11,700.00	-5,845.33	66.59	5,845.66	0.00	0.00	0.00
17,400.00	90.00	179.58	11,700.00	-5,945.33	67.31	5,945.66	0.00	0.00	0.00
17,500.00	90.00	179.58	11,700.00	-6,045.33	68.04	6,045.66	0.00	0.00	0.00
17,600.00	90.00	179.58	11,700.00	-6,145.32	68.76	6,145.66	0.00	0.00	0.00
17,700.00	90.00	179.58	11,700.00	-6,245.32	69.49	6,245.66	0.00	0.00	0.00
17,800.00	90.00	179.58	11,700.00	-6,345.32	70.22	6,345.66	0.00	0.00	0.00
17,900.00	90.00	179.58	11,700.00	-6,445.32	70.94	6,445.66	0.00	0.00	0.00
18,000.00	90.00	179.58	11,700.00	-6,545.31	71.67	6,545.66	0.00	0.00	0.00
18,100.00	90.00	179.58	11,700.00	-6,645.31	72.39	6,645.66	0.00	0.00	0.00
18,200.00	90.00	179.58	11,700.00	-6,745.31	73.12	6,745.66	0.00	0.00	0.00
18,300.00	90.00	179.58	11,700.00	-6,845.31	73.84	6,845.66	0.00	0.00	0.00
18,400.00	90.00	179.58	11,700.00	-6,945.30	74.57	6,945.66	0.00	0.00	0.00
18,500.00	90.00	179.58	11,700.00	-7,045.30	75.29	7,045.66	0.00	0.00	0.00
18,600.00	90.00	179.58	11,700.00	-7,145.30	76.02	7,145.66	0.00	0.00	0.00
18,700.00	90.00	179.58	11,700.00	-7,245.29	76.74	7,245.66	0.00	0.00	0.00
18,800.00	90.00	179.58	11,700.00	-7,345.29	77.47	7,345.66	0.00	0.00	0.00
18,900.00	90.00	179.58	11,700.00	-7,445.29	78.19	7,445.66	0.00	0.00	0.00
19,000.00	90.00	179.58	11,700.00	-7,545.29	78.92	7,545.66	0.00	0.00	0.00
19,100.00	90.00	179.58	11,700.00	-7,645.28	79.65	7,645.66	0.00	0.00	0.00
19,200.00	90.00	179.58	11,700.00	-7,745.28	80.37	7,745.66	0.00	0.00	0.00
19,300.00	90.00	179.58	11,700.00	-7,845.28	81.10	7,845.66	0.00	0.00	0.00
19,400.00	90.00	179.58	11,700.00	-7,945.28	81.82	7,945.66	0.00	0.00	0.00
19,500.00	90.00	179.58	11,700.00	-8,045.27	82.55	8,045.66	0.00	0.00	0.00
19,562.43	90.00	179.58	11,700.00	-8,107.70	83.00	8,108.09	0.00	0.00	0.00
BellLake 301H PBHL (330FSL350FWLSEC12) - BellLake 401H PBHL (330FSL350FWLSEC12)									

Planning Report

Database:	VON_EDM	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Project:	Lea County, NM (NAD27) NMEZ	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site:	Bell Lake Unit	North Reference:	Grid
Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
BellLake 301H SL	0.00	0.00	0.00	0.00	0.00	486,506.90	747,171.90	32° 20' 5.937 N	103° 31' 59.102 W
- plan hits target center									
- Point									
BellLake 301H LP (2600	0.00	0.00	11,700.00	-557.31	28.37	485,949.60	747,200.27	32° 20' 0.421 N	103° 31' 58.820 W
- plan misses target center by 0.28ft at 12011.84ft MD (11699.77 TVD, -557.31 N, 28.21 E)									
- Point									
BellLake 301H PBHL (30	0.00	0.00	11,700.00	-8,107.70	83.00	478,399.20	747,254.90	32° 18' 45.704 N	103° 31' 58.841 W
- plan hits target center									
- Point									
BellLake 401H PBHL (30	0.00	0.00	12,000.00	-8,107.70	83.00	478,399.20	747,254.90	32° 18' 45.704 N	103° 31' 58.841 W
- plan misses target center by 300.00ft at 19562.43ft MD (11700.00 TVD, -8107.70 N, 83.00 E)									
- Point									

Anticollision Report

Company:	KAISER-FRANCIS OIL COMPANY	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Project:	Lea County, NM (NAD27) NMEZ	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Reference Site:	Bell Lake Unit	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	VON_EDM
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 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.00 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	10/18/17		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	19,562.43	Plan #1 (Lateral)	MWD	OWSG MWD - Standard

Summary							
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning	
Offset Well - Wellbore - Design							
Bell Lake Unit							
Bell Lake Unit 401H - Lateral - Plan #1	11,100.00	11,100.00	19.90	-59.24	0.251	Level 1, CC, ES, SF	

Offset Design	Bell Lake Unit - Bell Lake Unit 401H - Lateral - Plan #1												Offset Site Error:	0.00 ft
Survey Program:	0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-0.29	19.90	-0.10	19.90					
100.00	100.00	100.00	100.00	0.14	0.14	-0.29	19.90	-0.10	19.90	19.62	0.28	72.096		
200.00	200.00	200.00	200.00	0.50	0.50	-0.29	19.90	-0.10	19.90	18.91	0.99	20.041		
300.00	300.00	300.00	300.00	0.85	0.85	-0.29	19.90	-0.10	19.90	18.19	1.71	11.638		
400.00	400.00	400.00	400.00	1.21	1.21	-0.29	19.90	-0.10	19.90	17.47	2.43	8.200		
500.00	500.00	500.00	500.00	1.57	1.57	-0.29	19.90	-0.10	19.90	16.76	3.14	6.330		
600.00	600.00	600.00	600.00	1.93	1.93	-0.29	19.90	-0.10	19.90	16.04	3.86	5.155		
700.00	700.00	700.00	700.00	2.29	2.29	-0.29	19.90	-0.10	19.90	15.32	4.58	4.347		
800.00	800.00	800.00	800.00	2.65	2.65	-0.29	19.90	-0.10	19.90	14.61	5.29	3.759		
900.00	900.00	900.00	900.00	3.01	3.01	-0.29	19.90	-0.10	19.90	13.89	6.01	3.310		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-0.29	19.90	-0.10	19.90	13.17	6.73	2.958		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-0.29	19.90	-0.10	19.90	12.45	7.45	2.673		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-0.29	19.90	-0.10	19.90	11.74	8.16	2.438		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-0.29	19.90	-0.10	19.90	11.02	8.88	2.241		
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	-0.29	19.90	-0.10	19.90	10.30	9.60	2.074		
1,500.00	1,500.00	1,500.00	1,500.00	5.16	5.16	-0.29	19.90	-0.10	19.90	9.59	10.31	1.930		
1,600.00	1,600.00	1,600.00	1,600.00	5.52	5.52	-0.29	19.90	-0.10	19.90	8.87	11.03	1.804		
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-0.29	19.90	-0.10	19.90	8.15	11.75	1.694		
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-0.29	19.90	-0.10	19.90	7.44	12.46	1.597		
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-0.29	19.90	-0.10	19.90	6.72	13.18	1.510		
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-0.29	19.90	-0.10	19.90	6.00	13.90	1.432	Level 3	
2,100.00	2,100.00	2,100.00	2,100.00	7.31	7.31	-0.29	19.90	-0.10	19.90	5.29	14.61	1.362	Level 3	
2,200.00	2,200.00	2,200.00	2,200.00	7.67	7.67	-0.29	19.90	-0.10	19.90	4.57	15.33	1.298	Level 3	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-0.29	19.90	-0.10	19.90	3.85	16.05	1.240	Level 2	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-0.29	19.90	-0.10	19.90	3.13	16.77	1.187	Level 2	
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	-0.29	19.90	-0.10	19.90	2.42	17.48	1.138	Level 2	

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

Anticollision Report

Company:	KAISER-FRANCIS OIL COMPANY	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Project:	Lea County, NM (NAD27) NMEZ	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Reference Site:	Bell Lake Unit	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	VON_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Bell Lake Unit - Bell Lake Unit 401H - Lateral - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	-0.29	19.90	-0.10	19.90	1.70	18.20	1.093 Level 2		
2,700.00	2,700.00	2,700.00	2,700.00	9.46	9.46	-0.29	19.90	-0.10	19.90	0.98	18.92	1.052 Level 2		
2,800.00	2,800.00	2,800.00	2,800.00	9.82	9.82	-0.29	19.90	-0.10	19.90	0.27	19.63	1.014 Level 2		
2,900.00	2,900.00	2,900.00	2,900.00	10.18	10.18	-0.29	19.90	-0.10	19.90	-0.45	20.35	0.978 Level 1		
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-0.29	19.90	-0.10	19.90	-1.17	21.07	0.945 Level 1		
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	-0.29	19.90	-0.10	19.90	-1.88	21.78	0.914 Level 1		
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	-0.29	19.90	-0.10	19.90	-2.60	22.50	0.884 Level 1		
3,300.00	3,300.00	3,300.00	3,300.00	11.61	11.61	-0.29	19.90	-0.10	19.90	-3.32	23.22	0.857 Level 1		
3,400.00	3,400.00	3,400.00	3,400.00	11.97	11.97	-0.29	19.90	-0.10	19.90	-4.03	23.94	0.831 Level 1		
3,500.00	3,500.00	3,500.00	3,500.00	12.33	12.33	-0.29	19.90	-0.10	19.90	-4.75	24.65	0.807 Level 1		
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	-0.29	19.90	-0.10	19.90	-5.47	25.37	0.784 Level 1		
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	-0.29	19.90	-0.10	19.90	-6.19	26.09	0.763 Level 1		
3,800.00	3,800.00	3,800.00	3,800.00	13.40	13.40	-0.29	19.90	-0.10	19.90	-6.90	26.80	0.742 Level 1		
3,900.00	3,900.00	3,900.00	3,900.00	13.76	13.76	-0.29	19.90	-0.10	19.90	-7.62	27.52	0.723 Level 1		
4,000.00	4,000.00	4,000.00	4,000.00	14.12	14.12	-0.29	19.90	-0.10	19.90	-8.34	28.24	0.705 Level 1		
4,100.00	4,100.00	4,100.00	4,100.00	14.48	14.48	-0.29	19.90	-0.10	19.90	-9.05	28.95	0.687 Level 1		
4,200.00	4,200.00	4,200.00	4,200.00	14.84	14.84	-0.29	19.90	-0.10	19.90	-9.77	29.67	0.671 Level 1		
4,300.00	4,300.00	4,300.00	4,300.00	15.19	15.19	-0.29	19.90	-0.10	19.90	-10.49	30.39	0.655 Level 1		
4,400.00	4,400.00	4,400.00	4,400.00	15.55	15.55	-0.29	19.90	-0.10	19.90	-11.20	31.10	0.640 Level 1		
4,500.00	4,500.00	4,500.00	4,500.00	15.91	15.91	-0.29	19.90	-0.10	19.90	-11.92	31.82	0.625 Level 1		
4,600.00	4,600.00	4,600.00	4,600.00	16.27	16.27	-0.29	19.90	-0.10	19.90	-12.64	32.54	0.612 Level 1		
4,700.00	4,700.00	4,700.00	4,700.00	16.63	16.63	-0.29	19.90	-0.10	19.90	-13.36	33.26	0.598 Level 1		
4,800.00	4,800.00	4,800.00	4,800.00	16.99	16.99	-0.29	19.90	-0.10	19.90	-14.07	33.97	0.586 Level 1		
4,900.00	4,900.00	4,900.00	4,900.00	17.34	17.34	-0.29	19.90	-0.10	19.90	-14.79	34.69	0.574 Level 1		
5,000.00	5,000.00	5,000.00	5,000.00	17.70	17.70	-0.29	19.90	-0.10	19.90	-15.51	35.41	0.562 Level 1		
5,100.00	5,100.00	5,100.00	5,100.00	18.06	18.06	-0.29	19.90	-0.10	19.90	-16.22	36.12	0.551 Level 1		
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	-0.29	19.90	-0.10	19.90	-16.94	36.84	0.540 Level 1		
5,300.00	5,300.00	5,300.00	5,300.00	18.78	18.78	-0.29	19.90	-0.10	19.90	-17.66	37.56	0.530 Level 1		
5,400.00	5,400.00	5,400.00	5,400.00	19.14	19.14	-0.29	19.90	-0.10	19.90	-18.37	38.27	0.520 Level 1		
5,500.00	5,500.00	5,500.00	5,500.00	19.50	19.50	-0.29	19.90	-0.10	19.90	-19.09	38.99	0.510 Level 1		
5,600.00	5,600.00	5,600.00	5,600.00	19.85	19.85	-0.29	19.90	-0.10	19.90	-19.81	39.71	0.501 Level 1		
5,700.00	5,700.00	5,700.00	5,700.00	20.21	20.21	-0.29	19.90	-0.10	19.90	-20.52	40.42	0.492 Level 1		
5,800.00	5,800.00	5,800.00	5,800.00	20.57	20.57	-0.29	19.90	-0.10	19.90	-21.24	41.14	0.484 Level 1		
5,900.00	5,900.00	5,900.00	5,900.00	20.93	20.93	-0.29	19.90	-0.10	19.90	-21.96	41.86	0.475 Level 1		
6,000.00	6,000.00	6,000.00	6,000.00	21.29	21.29	-0.29	19.90	-0.10	19.90	-22.68	42.58	0.467 Level 1		
6,100.00	6,100.00	6,100.00	6,100.00	21.65	21.65	-0.29	19.90	-0.10	19.90	-23.39	43.29	0.460 Level 1		
6,200.00	6,200.00	6,200.00	6,200.00	22.00	22.00	-0.29	19.90	-0.10	19.90	-24.11	44.01	0.452 Level 1		
6,300.00	6,300.00	6,300.00	6,300.00	22.36	22.36	-0.29	19.90	-0.10	19.90	-24.83	44.73	0.445 Level 1		
6,400.00	6,400.00	6,400.00	6,400.00	22.72	22.72	-0.29	19.90	-0.10	19.90	-25.54	45.44	0.438 Level 1		
6,500.00	6,500.00	6,500.00	6,500.00	23.08	23.08	-0.29	19.90	-0.10	19.90	-26.26	46.16	0.431 Level 1		
6,600.00	6,600.00	6,600.00	6,600.00	23.44	23.44	-0.29	19.90	-0.10	19.90	-26.98	46.88	0.425 Level 1		
6,700.00	6,700.00	6,700.00	6,700.00	23.80	23.80	-0.29	19.90	-0.10	19.90	-27.69	47.59	0.418 Level 1		
6,800.00	6,800.00	6,800.00	6,800.00	24.16	24.16	-0.29	19.90	-0.10	19.90	-28.41	48.31	0.412 Level 1		
6,900.00	6,900.00	6,900.00	6,900.00	24.51	24.51	-0.29	19.90	-0.10	19.90	-29.13	49.03	0.406 Level 1		
7,000.00	7,000.00	7,000.00	7,000.00	24.87	24.87	-0.29	19.90	-0.10	19.90	-29.84	49.75	0.400 Level 1		
7,100.00	7,100.00	7,100.00	7,100.00	25.23	25.23	-0.29	19.90	-0.10	19.90	-30.56	50.46	0.394 Level 1		
7,200.00	7,200.00	7,200.00	7,200.00	25.59	25.59	-0.29	19.90	-0.10	19.90	-31.28	51.18	0.389 Level 1		
7,300.00	7,300.00	7,300.00	7,300.00	25.95	25.95	-0.29	19.90	-0.10	19.90	-32.00	51.90	0.383 Level 1		
7,400.00	7,400.00	7,400.00	7,400.00	26.31	26.31	-0.29	19.90	-0.10	19.90	-32.71	52.61	0.378 Level 1		
7,500.00	7,500.00	7,500.00	7,500.00	26.66	26.66	-0.29	19.90	-0.10	19.90	-33.43	53.33	0.373 Level 1		
7,600.00	7,600.00	7,600.00	7,600.00	27.02	27.02	-0.29	19.90	-0.10	19.90	-34.15	54.05	0.368 Level 1		
7,700.00	7,700.00	7,700.00	7,700.00	27.38	27.38	-0.29	19.90	-0.10	19.90	-34.86	54.76	0.363 Level 1		

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

Anticollision Report

Company:	KAISER-FRANCIS OIL COMPANY	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Project:	Lea County, NM (NAD27) NMEZ	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Reference Site:	Bell Lake Unit	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	VON_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Bell Lake Unit - Bell Lake Unit 401H - Lateral - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,800.00	7,800.00	7,800.00	7,800.00	27.74	27.74	-0.29	19.90	-0.10	19.90	-35.58	55.48	0.359	Level 1	
7,900.00	7,900.00	7,900.00	7,900.00	28.10	28.10	-0.29	19.90	-0.10	19.90	-36.30	56.20	0.354	Level 1	
8,000.00	8,000.00	8,000.00	8,000.00	28.46	28.46	-0.29	19.90	-0.10	19.90	-37.01	56.91	0.350	Level 1	
8,100.00	8,100.00	8,100.00	8,100.00	28.82	28.82	-0.29	19.90	-0.10	19.90	-37.73	57.63	0.345	Level 1	
8,200.00	8,200.00	8,200.00	8,200.00	29.17	29.17	-0.29	19.90	-0.10	19.90	-38.45	58.35	0.341	Level 1	
8,300.00	8,300.00	8,300.00	8,300.00	29.53	29.53	-0.29	19.90	-0.10	19.90	-39.17	59.07	0.337	Level 1	
8,400.00	8,400.00	8,400.00	8,400.00	29.89	29.89	-0.29	19.90	-0.10	19.90	-39.88	59.78	0.333	Level 1	
8,500.00	8,500.00	8,500.00	8,500.00	30.25	30.25	-0.29	19.90	-0.10	19.90	-40.60	60.50	0.329	Level 1	
8,600.00	8,600.00	8,600.00	8,600.00	30.61	30.61	-0.29	19.90	-0.10	19.90	-41.32	61.22	0.325	Level 1	
8,700.00	8,700.00	8,700.00	8,700.00	30.97	30.97	-0.29	19.90	-0.10	19.90	-42.03	61.93	0.321	Level 1	
8,800.00	8,800.00	8,800.00	8,800.00	31.33	31.33	-0.29	19.90	-0.10	19.90	-42.75	62.65	0.318	Level 1	
8,900.00	8,900.00	8,900.00	8,900.00	31.68	31.68	-0.29	19.90	-0.10	19.90	-43.47	63.37	0.314	Level 1	
9,000.00	9,000.00	9,000.00	9,000.00	32.04	32.04	-0.29	19.90	-0.10	19.90	-44.18	64.08	0.311	Level 1	
9,100.00	9,100.00	9,100.00	9,100.00	32.40	32.40	-0.29	19.90	-0.10	19.90	-44.90	64.80	0.307	Level 1	
9,200.00	9,200.00	9,200.00	9,200.00	32.76	32.76	-0.29	19.90	-0.10	19.90	-45.62	65.52	0.304	Level 1	
9,300.00	9,300.00	9,300.00	9,300.00	33.12	33.12	-0.29	19.90	-0.10	19.90	-46.33	66.23	0.300	Level 1	
9,400.00	9,400.00	9,400.00	9,400.00	33.48	33.48	-0.29	19.90	-0.10	19.90	-47.05	66.95	0.297	Level 1	
9,500.00	9,500.00	9,500.00	9,500.00	33.83	33.83	-0.29	19.90	-0.10	19.90	-47.77	67.67	0.294	Level 1	
9,600.00	9,600.00	9,600.00	9,600.00	34.19	34.19	-0.29	19.90	-0.10	19.90	-48.49	68.39	0.291	Level 1	
9,700.00	9,700.00	9,700.00	9,700.00	34.55	34.55	-0.29	19.90	-0.10	19.90	-49.20	69.10	0.288	Level 1	
9,800.00	9,800.00	9,800.00	9,800.00	34.91	34.91	-0.29	19.90	-0.10	19.90	-49.92	69.82	0.285	Level 1	
9,900.00	9,900.00	9,900.00	9,900.00	35.27	35.27	-0.29	19.90	-0.10	19.90	-50.64	70.54	0.282	Level 1	
10,000.00	10,000.00	10,000.00	10,000.00	35.63	35.63	-0.29	19.90	-0.10	19.90	-51.35	71.25	0.279	Level 1	
10,100.00	10,100.00	10,100.00	10,100.00	35.99	35.99	-0.29	19.90	-0.10	19.90	-52.07	71.97	0.277	Level 1	
10,200.00	10,200.00	10,200.00	10,200.00	36.34	36.34	-0.29	19.90	-0.10	19.90	-52.79	72.69	0.274	Level 1	
10,300.00	10,300.00	10,300.00	10,300.00	36.70	36.70	-0.29	19.90	-0.10	19.90	-53.50	73.40	0.271	Level 1	
10,400.00	10,400.00	10,400.00	10,400.00	37.06	37.06	-0.29	19.90	-0.10	19.90	-54.22	74.12	0.268	Level 1	
10,500.00	10,500.00	10,500.00	10,500.00	37.42	37.42	-0.29	19.90	-0.10	19.90	-54.94	74.84	0.266	Level 1	
10,600.00	10,600.00	10,600.00	10,600.00	37.78	37.78	-0.29	19.90	-0.10	19.90	-55.65	75.56	0.263	Level 1	
10,700.00	10,700.00	10,700.00	10,700.00	38.14	38.14	-0.29	19.90	-0.10	19.90	-56.37	76.27	0.261	Level 1	
10,800.00	10,800.00	10,800.00	10,800.00	38.49	38.49	-0.29	19.90	-0.10	19.90	-57.09	76.99	0.258	Level 1	
10,900.00	10,900.00	10,900.00	10,900.00	38.85	38.85	-0.29	19.90	-0.10	19.90	-57.81	77.71	0.256	Level 1	
11,000.00	11,000.00	11,000.00	11,000.00	39.21	39.21	-0.29	19.90	-0.10	19.90	-58.52	78.42	0.254	Level 1	
11,100.00	11,100.00	11,100.00	11,100.00	39.57	39.57	-0.29	19.90	-0.10	19.90	-59.24	79.14	0.251	Level 1, CC, ES, SF	
11,200.00	11,199.80	11,200.20	11,199.80	39.90	39.93	-176.89	19.90	-0.10	24.60	-55.24	79.83	0.308	Level 1	
11,300.00	11,297.36	11,302.64	11,297.36	40.22	40.30	-178.27	19.90	-0.10	45.94	-34.57	80.51	0.571	Level 1	
11,400.00	11,389.73	11,389.73	11,389.73	40.51	40.61	-178.98	19.90	-0.10	83.90	2.79	81.11	1.034	Level 2	
11,500.00	11,474.11	11,488.85	11,488.73	40.80	40.94	-179.35	16.52	0.14	134.75	53.37	81.38	1.656		
11,600.00	11,547.92	11,608.92	11,605.86	41.09	41.32	-179.55	-8.81	1.91	185.13	105.51	79.63	2.325		
11,700.00	11,608.94	11,748.86	11,732.13	41.38	41.73	179.77	-68.18	6.06	230.98	156.11	74.87	3.085		
11,800.00	11,655.37	11,913.76	11,857.13	41.69	42.20	179.51	-174.59	13.50	268.49	201.92	66.57	4.033		
11,900.00	11,685.80	12,104.02	11,956.91	42.01	42.77	179.88	-335.29	22.78	293.07	236.71	56.37	5.199		
12,000.00	11,699.32	12,000.00	11,998.60	42.35	42.41	179.96	-517.80	27.57	300.56	249.97	50.59	5.941		
12,100.00	11,700.00	12,419.90	12,000.00	42.71	43.83	179.95	-645.47	28.61	300.01	249.25	50.75	5.911		
12,200.00	11,700.00	12,519.90	12,000.00	43.13	44.25	179.95	-745.47	29.34	300.01	248.97	51.03	5.879		
12,300.00	11,700.00	12,619.90	12,000.00	43.60	44.72	179.95	-845.46	30.07	300.01	248.64	51.36	5.841		
12,400.00	11,700.00	12,719.90	12,000.00	44.14	45.26	179.95	-945.46	30.80	300.01	248.27	51.74	5.799		
12,500.00	11,700.00	12,819.90	12,000.00	44.73	45.84	179.95	-1,045.46	31.53	300.00	247.85	52.16	5.752		
12,600.00	11,700.00	12,919.90	12,000.00	45.37	46.48	179.95	-1,145.46	32.26	300.00	247.39	52.62	5.702		
12,700.00	11,700.00	13,019.90	12,000.00	46.06	47.17	179.96	-1,245.45	32.99	300.00	246.88	53.12	5.647		
12,800.00	11,700.00	13,119.90	12,000.00	46.80	47.90	179.96	-1,345.45	33.71	300.00	246.34	53.67	5.590		
12,900.00	11,700.00	13,219.90	12,000.00	47.59	48.68	179.96	-1,445.45	34.44	300.00	245.75	54.25	5.530		

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

Anticollision Report

Company:	KAISER-FRANCIS OIL COMPANY	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Project:	Lea County, NM (NAD27) NMEZ	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Reference Site:	Bell Lake Unit	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	VON_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Bell Lake Unit - Bell Lake Unit 401H - Lateral - Plan #1													Offset Site Error:	0.00 ft
Survey Program: O-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,000.00	11,700.00	13,319.90	12,000.00	48.42	49.50	179.96	-1,545.45	35.17	300.00	245.13	54.88	5.467		
13,100.00	11,700.00	13,419.90	12,000.00	49.29	50.37	179.96	-1,645.44	35.90	300.00	244.46	55.54	5.401		
13,200.00	11,700.00	13,519.90	12,000.00	50.20	51.27	179.96	-1,745.44	36.63	300.00	243.77	56.24	5.334		
13,300.00	11,700.00	13,619.90	12,000.00	51.15	52.21	179.96	-1,845.44	37.36	300.00	243.03	56.97	5.266		
13,400.00	11,700.00	13,719.90	12,000.00	52.14	53.18	179.96	-1,945.44	38.09	300.00	242.27	57.74	5.196		
13,500.00	11,700.00	13,819.90	12,000.00	53.15	54.19	179.96	-2,045.43	38.82	300.00	241.47	58.54	5.125		
13,600.00	11,700.00	13,919.90	12,000.00	54.20	55.23	179.96	-2,145.43	39.55	300.00	240.64	59.37	5.054		
13,700.00	11,700.00	14,019.90	12,000.00	55.28	56.29	179.96	-2,245.43	40.27	300.00	239.78	60.22	4.982		
13,800.00	11,700.00	14,119.90	12,000.00	56.39	57.39	179.96	-2,345.43	41.00	300.00	238.89	61.11	4.909		
13,900.00	11,700.00	14,219.90	12,000.00	57.52	58.51	179.96	-2,445.42	41.73	300.00	237.98	62.02	4.837		
14,000.00	11,700.00	14,319.90	12,000.00	58.67	59.66	179.96	-2,545.42	42.46	300.00	237.04	62.96	4.765		
14,100.00	11,700.00	14,419.90	12,000.00	59.86	60.83	179.96	-2,645.42	43.19	300.00	236.08	63.93	4.693		
14,200.00	11,700.00	14,519.90	12,000.00	61.06	62.02	179.97	-2,745.41	43.92	300.00	235.09	64.92	4.621		
14,300.00	11,700.00	14,619.90	12,000.00	62.28	63.23	179.97	-2,845.41	44.65	300.00	234.08	65.93	4.551		
14,400.00	11,700.00	14,719.90	12,000.00	63.52	64.46	179.97	-2,945.41	45.38	300.00	233.05	66.96	4.480		
14,500.00	11,700.00	14,819.90	12,000.00	64.78	65.71	179.97	-3,045.41	46.10	300.00	231.99	68.01	4.411		
14,600.00	11,700.00	14,919.90	12,000.00	66.06	66.98	179.97	-3,145.40	46.83	300.00	230.92	69.08	4.343		
14,700.00	11,700.00	15,019.90	12,000.00	67.36	68.27	179.97	-3,245.40	47.56	300.00	229.83	70.17	4.275		
14,800.00	11,700.00	15,119.90	12,000.00	68.67	69.57	179.97	-3,345.40	48.29	300.00	228.72	71.28	4.209		
14,900.00	11,700.00	15,219.90	12,000.00	69.99	70.88	179.97	-3,445.40	49.02	300.00	227.59	72.41	4.143		
15,000.00	11,700.00	15,319.90	12,000.00	71.33	72.21	179.97	-3,545.39	49.75	300.00	226.45	73.55	4.079		
15,100.00	11,700.00	15,419.90	12,000.00	72.68	73.55	179.97	-3,645.39	50.48	300.00	225.29	74.71	4.016		
15,200.00	11,700.00	15,519.90	12,000.00	74.05	74.91	179.97	-3,745.39	51.21	300.00	224.12	75.88	3.954		
15,300.00	11,700.00	15,619.90	12,000.00	75.42	76.28	179.97	-3,845.39	51.94	300.00	222.93	77.07	3.893		
15,400.00	11,700.00	15,719.90	12,000.00	76.81	77.65	179.97	-3,945.38	52.66	300.00	221.73	78.27	3.833		
15,500.00	11,700.00	15,819.90	12,000.00	78.21	79.04	179.97	-4,045.38	53.39	300.00	220.52	79.48	3.775		
15,600.00	11,700.00	15,919.90	12,000.00	79.61	80.44	179.97	-4,145.38	54.12	300.00	219.30	80.71	3.717		
15,700.00	11,700.00	16,019.90	12,000.00	81.03	81.85	179.97	-4,245.37	54.85	300.00	218.06	81.94	3.661		
15,800.00	11,700.00	16,119.90	12,000.00	82.45	83.27	179.98	-4,345.37	55.58	300.00	216.81	83.19	3.606		
15,900.00	11,700.00	16,219.90	12,000.00	83.89	84.69	179.98	-4,445.37	56.31	300.00	215.55	84.45	3.552		
16,000.00	11,700.00	16,319.90	12,000.00	85.33	86.12	179.98	-4,545.37	57.04	300.00	214.28	85.72	3.500		
16,100.00	11,700.00	16,419.90	12,000.00	86.78	87.57	179.98	-4,645.36	57.77	300.00	213.00	87.00	3.448		
16,200.00	11,700.00	16,519.90	12,000.00	88.23	89.02	179.98	-4,745.36	58.49	300.00	211.72	88.29	3.398		
16,300.00	11,700.00	16,619.90	12,000.00	89.70	90.47	179.98	-4,845.36	59.22	300.00	210.42	89.58	3.349		
16,400.00	11,700.00	16,719.90	12,000.00	91.17	91.93	179.98	-4,945.36	59.95	300.00	209.11	90.89	3.301		
16,500.00	11,700.00	16,819.90	12,000.00	92.64	93.40	179.98	-5,045.35	60.68	300.00	207.80	92.20	3.254		
16,600.00	11,700.00	16,919.90	12,000.00	94.12	94.88	179.98	-5,145.35	61.41	300.00	206.48	93.53	3.208		
16,700.00	11,700.00	17,019.90	12,000.00	95.61	96.36	179.98	-5,245.35	62.14	300.00	205.15	94.86	3.163		
16,800.00	11,700.00	17,119.90	12,000.00	97.10	97.85	179.98	-5,345.35	62.87	300.00	203.81	96.19	3.119		
16,900.00	11,700.00	17,219.90	12,000.00	98.60	99.34	179.98	-5,445.34	63.60	300.00	202.47	97.54	3.076		
17,000.00	11,700.00	17,319.90	12,000.00	100.10	100.83	179.98	-5,545.34	64.32	300.00	201.12	98.89	3.034		
17,100.00	11,700.00	17,419.90	12,000.00	101.61	102.34	179.98	-5,645.34	65.05	300.00	199.76	100.24	2.993		
17,200.00	11,700.00	17,519.90	12,000.00	103.12	103.84	179.98	-5,745.33	65.78	300.00	198.40	101.61	2.953		
17,300.00	11,700.00	17,619.90	12,000.00	104.64	105.35	179.99	-5,845.33	66.51	300.00	197.03	102.98	2.913		
17,400.00	11,700.00	17,719.90	12,000.00	106.16	106.87	179.99	-5,945.33	67.24	300.00	195.65	104.35	2.875		
17,500.00	11,700.00	17,819.90	12,000.00	107.68	108.39	179.99	-6,045.33	67.97	300.00	194.27	105.73	2.837		
17,600.00	11,700.00	17,919.90	12,000.00	109.21	109.91	179.99	-6,145.32	68.70	300.00	192.89	107.11	2.801		
17,700.00	11,700.00	18,019.90	12,000.00	110.74	111.44	179.99	-6,245.32	69.43	300.00	191.50	108.50	2.765		
17,800.00	11,700.00	18,119.90	12,000.00	112.28	112.97	179.99	-6,345.32	70.16	300.00	190.10	109.90	2.730		
17,900.00	11,700.00	18,219.90	12,000.00	113.82	114.50	179.99	-6,445.32	70.88	300.00	188.70	111.30	2.695		
18,000.00	11,700.00	18,319.90	12,000.00	115.36	116.04	179.99	-6,545.31	71.61	300.00	187.30	112.70	2.662		
18,100.00	11,700.00	18,419.90	12,000.00	116.90	117.58	179.99	-6,645.31	72.34	300.00	185.89	114.11	2.629		

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

Anticollision Report

Company:	KAISER-FRANCIS OIL COMPANY	Local Co-ordinate Reference:	Well Bell Lake Unit 301H - Slot 301H
Project:	Lea County, NM (NAD27) NMEZ	TVD Reference:	3518+23 @ 3541.00ft (Planning)
Reference Site:	Bell Lake Unit	MD Reference:	3518+23 @ 3541.00ft (Planning)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Bell Lake Unit 301H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	VON_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Bell Lake Unit - Bell Lake Unit 401H - Lateral - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
18,200.00	11,700.00	18,519.90	12,000.00	118.45	119.12	179.99	-6,745.31	73.07	300.00	184.48	115.52	2.597		
18,300.00	11,700.00	18,619.90	12,000.00	120.00	120.67	179.99	-6,845.31	73.80	300.00	183.06	116.94	2.565		
18,400.00	11,700.00	18,719.90	12,000.00	121.56	122.22	179.99	-6,945.30	74.53	300.00	181.64	118.36	2.535		
18,500.00	11,700.00	18,819.90	12,000.00	123.11	123.77	179.99	-7,045.30	75.26	300.00	180.22	119.79	2.504		
18,600.00	11,700.00	18,919.90	12,000.00	124.67	125.32	179.99	-7,145.30	75.99	300.00	178.79	121.21	2.475		
18,700.00	11,700.00	19,019.90	12,000.00	126.23	126.88	179.99	-7,245.30	76.71	300.00	177.36	122.64	2.446		
18,800.00	11,700.00	19,119.90	12,000.00	127.79	128.44	180.00	-7,345.29	77.44	300.00	175.92	124.08	2.418		
18,900.00	11,700.00	19,219.90	12,000.00	129.36	130.00	180.00	-7,445.29	78.17	300.00	174.48	125.52	2.390		
19,000.00	11,700.00	19,319.90	12,000.00	130.93	131.56	180.00	-7,545.29	78.90	300.00	173.04	126.96	2.363		
19,100.00	11,700.00	19,419.90	12,000.00	132.50	133.13	180.00	-7,645.28	79.63	300.00	171.60	128.40	2.336		
19,200.00	11,700.00	19,519.90	12,000.00	134.07	134.70	180.00	-7,745.28	80.36	300.00	170.15	129.85	2.310		
19,300.00	11,700.00	19,619.90	12,000.00	135.64	136.27	180.00	-7,845.28	81.09	300.00	168.70	131.30	2.285		
19,400.00	11,700.00	19,719.90	12,000.00	137.22	137.84	180.00	-7,945.28	81.82	300.00	167.25	132.75	2.260		
19,500.00	11,700.00	19,819.90	12,000.00	138.80	139.38	180.00	-8,045.27	82.55	300.00	165.87	134.13	2.237		
19,562.91	11,700.00	19,882.81	12,000.00	139.79	140.26	-180.00	-8,108.18	83.00	300.00	165.18	134.82	2.225		



GATES E & S NORTH AMERICA, INC.
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: 281-602-4119
FAX:
EMAIL: Troy.Schmidt@gat
WEB: www.gates.com

10K ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/3/2017
Customer Ref. :	4086301	Hose Serial No.:	H-100317-2
Invoice No. :	508588	Created By:	Irene Pizana

Product Description:	10K3.035.0CM4.1/16FLGE/E		
End Fitting 1 :	4 -1/16 10K FLANGE - FIXED	End Fitting 2 :	4 -1/16 10K FLANGE - FLOATING
Gates Part No. :	68603010-9710398	Assembly Code :	L39789092117H-100317-2
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

HOBBS OCD
APR 17 2018
RECEIVED

Gates E & S North America, Inc. certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Section 9.7.7 and Table 10 of API 7K, Sixth Edition (December 2015).

Quality:	QUALITY
Date :	10/3/2017
Signature :	

Production:	PRODUCTION
Date :	10/3/2017
Signature :	

Form PTC - 01 Rev.0 2





POWERING PROGRESS™

Gates E&S North America, Inc.
7603 Prairie Oak Dr.
Houston, TX. 77086
PHONE :
FAX:
Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates E & S, North America Inc.**, facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 7K.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMERS P.O.#: 4086301
PART DESCRIPTION: 10K3.035.0CM4.1/16FLGE/E
SALES ORDER #: 508588
QUANTITY: 1
SERIAL #: H-100317-2

SIGNATURE:

TITLE:

QUALITY ASSURANCE

DATE:

10/3/2017



JOB REPORT

COMPANY DETAILS

Company: Austin

Email: Irene.pizana@gates.com

Contact:

Phone:

JOB DETAILS

DATE October 03, 2017

START TIME 10:38:29

Length: 35'

END TIME 11:00:25

Inner Diameter: 3.0"

Gates Rep: Chris Olivo

Pressure Test: Pass

Recommendation: H-100317-2

Internal Inspection: N/A

Working Pressure: 10000

Fitting Type: 10K Flange ExE

Ext Inspection: Pass

Fitting Inspection: Pass

Test pressure: 15000

Serial No: H-100317-2



SUMMARY GRAPH

