



DIRECTIONAL SERVICES, LLC.

Kaiser Francis Oil Company

Lea County, NM (NAD 27)

Bell Lake Unit Pad

Bell Lake Unit North 201H

Wellbore #1

Plan: Plan #2

Standard Planning Report

27 September, 2017

**HOBBS OCD
APR 17 2018
RECEIVED**

Kaiser-Francis Oil Company

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bell Lake Unit North 201H
Company:	Kaiser Francis Oil Company	TVD Reference:	Well @ 3540.0usft
Project:	Lea County, NM (NAD 27)	MD Reference:	Well @ 3540.0usft
Site:	Bell Lake Unit Pad	North Reference:	Grid
Well:	Bell Lake Unit North 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Lea County, NM (NAD 27)		
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 Pad			
Site Position:		Northing:	454,849.70 usft	Latitude:	32° 14' 52.674 N
From:	Map	Easting:	747,377.60 usft	Longitude:	103° 31' 59.440 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Bell Lake Unit North 201H					
Well Position	+N/-S	31,637.2 usft	Northing:	486,486.90 usft	Latitude:	32° 20' 5.749 N
	+E/-W	-205.6 usft	Easting:	747,172.00 usft	Longitude:	103° 31' 59.085 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,517.0 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2017/09/12	6.92	60.17	47,982.94425832

Design	Plan #2			
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.41

Plan Survey Tool Program	Date	2017/09/27		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,518.5 Plan #2 (Wellbore #1)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,738.6	0.00	0.00	8,738.6	0.0	0.0	0.00	0.00	0.00	0.00	
8,868.8	2.60	134.60	8,868.8	-2.1	2.1	2.00	2.00	0.00	134.60	
9,497.5	2.60	134.60	9,496.8	-22.1	22.4	0.00	0.00	0.00	0.00	
9,627.7	0.00	0.00	9,627.0	-24.2	24.6	2.00	-2.00	0.00	180.00	
10,127.7	0.00	0.00	10,127.0	-24.2	24.6	0.00	0.00	0.00	0.00	KOP BLUN 201H P
11,027.7	90.00	179.59	10,700.0	-597.2	28.7	10.00	10.00	19.95	179.59	
18,518.5	90.00	179.59	10,700.0	-8,087.7	82.9	0.00	0.00	0.00	0.00	PBHL BLUN 201H I

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Site:	Bell Lake Unit Pad	North Reference:	Grid
Well:	Bell Lake Unit North 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,738.6	0.00	0.00	8,738.6	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
8,800.0	1.23	134.60	8,800.0	-0.5	0.5	0.5	2.00	2.00	0.00
8,868.8	2.60	134.60	8,868.8	-2.1	2.1	2.1	2.00	2.00	0.00
Start 628.7 hold at 8868.8 MD									
8,900.0	2.60	134.60	8,899.9	-3.1	3.1	3.1	0.00	0.00	0.00
9,000.0	2.60	134.60	8,999.8	-6.3	6.4	6.3	0.00	0.00	0.00
9,100.0	2.60	134.60	9,099.7	-9.5	9.6	9.6	0.00	0.00	0.00
9,200.0	2.60	134.60	9,199.6	-12.6	12.8	12.8	0.00	0.00	0.00
9,300.0	2.60	134.60	9,299.5	-15.8	16.1	16.0	0.00	0.00	0.00
9,400.0	2.60	134.60	9,399.4	-19.0	19.3	19.2	0.00	0.00	0.00
9,497.5	2.60	134.60	9,496.8	-22.1	22.4	22.4	0.00	0.00	0.00
Start Drop -2.00									
9,500.0	2.55	134.60	9,499.3	-22.2	22.5	22.4	2.00	-2.00	0.00
9,600.0	0.55	134.60	9,599.3	-24.1	24.5	24.4	2.00	-2.00	0.00
9,627.7	0.00	0.00	9,627.0	-24.2	24.6	24.5	2.00	-2.00	0.00
Start 500.0 hold at 9627.7 MD									
9,700.0	0.00	0.00	9,699.3	-24.2	24.6	24.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,799.3	-24.2	24.6	24.5	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	0.00	0.00	9,899.3	-24.2	24.6	24.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,999.3	-24.2	24.6	24.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,099.3	-24.2	24.6	24.5	0.00	0.00	0.00
10,127.7	0.00	0.00	10,127.0	-24.2	24.6	24.5	0.00	0.00	0.00
Start DLS 10.00 TFO 179.59									
10,200.0	7.23	179.59	10,199.1	-28.8	24.6	29.0	10.00	10.00	0.00
10,300.0	17.23	179.59	10,296.7	-49.9	24.7	50.2	10.00	10.00	0.00
10,400.0	27.23	179.59	10,389.1	-87.7	25.0	87.9	10.00	10.00	0.00
10,500.0	37.23	179.59	10,473.6	-140.9	25.4	141.2	10.00	10.00	0.00
10,600.0	47.23	179.59	10,547.6	-208.1	25.9	208.3	10.00	10.00	0.00
10,700.0	57.23	179.59	10,608.8	-287.0	26.5	287.3	10.00	10.00	0.00
10,800.0	67.23	179.59	10,655.3	-375.4	27.1	375.6	10.00	10.00	0.00
10,900.0	77.23	179.59	10,685.8	-470.5	27.8	470.7	10.00	10.00	0.00
11,000.0	87.23	179.59	10,699.3	-569.4	28.5	569.7	10.00	10.00	0.00
11,027.7	90.00	179.59	10,700.0	-597.2	28.7	597.4	10.00	10.00	0.00
Start 7490.7 hold at 11027.7 MD									
11,100.0	90.00	179.59	10,700.0	-669.4	29.2	669.7	0.00	0.00	0.00
11,200.0	90.00	179.59	10,700.0	-769.4	29.9	769.7	0.00	0.00	0.00
11,300.0	90.00	179.59	10,700.0	-869.4	30.7	869.7	0.00	0.00	0.00
11,400.0	90.00	179.59	10,700.0	-969.4	31.4	969.7	0.00	0.00	0.00
11,500.0	90.00	179.59	10,700.0	-1,069.4	32.1	1,069.7	0.00	0.00	0.00
11,600.0	90.00	179.59	10,700.0	-1,169.4	32.8	1,169.7	0.00	0.00	0.00
11,700.0	90.00	179.59	10,700.0	-1,269.4	33.6	1,269.7	0.00	0.00	0.00
11,800.0	90.00	179.59	10,700.0	-1,369.4	34.3	1,369.7	0.00	0.00	0.00
11,900.0	90.00	179.59	10,700.0	-1,469.4	35.0	1,469.7	0.00	0.00	0.00
12,000.0	90.00	179.59	10,700.0	-1,569.4	35.7	1,569.7	0.00	0.00	0.00
12,100.0	90.00	179.59	10,700.0	-1,669.4	36.5	1,669.7	0.00	0.00	0.00
12,200.0	90.00	179.59	10,700.0	-1,769.4	37.2	1,769.7	0.00	0.00	0.00
12,300.0	90.00	179.59	10,700.0	-1,869.4	37.9	1,869.7	0.00	0.00	0.00
12,400.0	90.00	179.59	10,700.0	-1,969.4	38.6	1,969.7	0.00	0.00	0.00
12,500.0	90.00	179.59	10,700.0	-2,069.4	39.4	2,069.7	0.00	0.00	0.00
12,600.0	90.00	179.59	10,700.0	-2,169.4	40.1	2,169.7	0.00	0.00	0.00
12,700.0	90.00	179.59	10,700.0	-2,269.4	40.8	2,269.7	0.00	0.00	0.00
12,800.0	90.00	179.59	10,700.0	-2,369.4	41.5	2,369.7	0.00	0.00	0.00
12,900.0	90.00	179.59	10,700.0	-2,469.4	42.2	2,469.7	0.00	0.00	0.00
13,000.0	90.00	179.59	10,700.0	-2,569.4	43.0	2,569.7	0.00	0.00	0.00
13,100.0	90.00	179.59	10,700.0	-2,669.4	43.7	2,669.7	0.00	0.00	0.00
13,200.0	90.00	179.59	10,700.0	-2,769.4	44.4	2,769.7	0.00	0.00	0.00
13,300.0	90.00	179.59	10,700.0	-2,869.4	45.1	2,869.7	0.00	0.00	0.00
13,400.0	90.00	179.59	10,700.0	-2,969.4	45.9	2,969.7	0.00	0.00	0.00
13,500.0	90.00	179.59	10,700.0	-3,069.4	46.6	3,069.7	0.00	0.00	0.00
13,600.0	90.00	179.59	10,700.0	-3,169.4	47.3	3,169.7	0.00	0.00	0.00
13,700.0	90.00	179.59	10,700.0	-3,269.3	48.0	3,269.7	0.00	0.00	0.00
13,800.0	90.00	179.59	10,700.0	-3,369.3	48.8	3,369.7	0.00	0.00	0.00
13,900.0	90.00	179.59	10,700.0	-3,469.3	49.5	3,469.7	0.00	0.00	0.00
14,000.0	90.00	179.59	10,700.0	-3,569.3	50.2	3,569.7	0.00	0.00	0.00
14,100.0	90.00	179.59	10,700.0	-3,669.3	50.9	3,669.7	0.00	0.00	0.00
14,200.0	90.00	179.59	10,700.0	-3,769.3	51.7	3,769.7	0.00	0.00	0.00
14,300.0	90.00	179.59	10,700.0	-3,869.3	52.4	3,869.7	0.00	0.00	0.00
14,400.0	90.00	179.59	10,700.0	-3,969.3	53.1	3,969.7	0.00	0.00	0.00
14,500.0	90.00	179.59	10,700.0	-4,069.3	53.8	4,069.7	0.00	0.00	0.00
14,600.0	90.00	179.59	10,700.0	-4,169.3	54.5	4,169.7	0.00	0.00	0.00
14,700.0	90.00	179.59	10,700.0	-4,269.3	55.3	4,269.7	0.00	0.00	0.00
14,800.0	90.00	179.59	10,700.0	-4,369.3	56.0	4,369.7	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bell Lake Unit North 201H
Company:	Kaiser Francis Oil Company	TVD Reference:	Well @ 3540.0usft
Project:	Lea County, NM (NAD 27)	MD Reference:	Well @ 3540.0usft
Site:	Bell Lake Unit Pad	North Reference:	Grid
Well:	Bell Lake Unit North 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.0	90.00	179.59	10,700.0	-4,469.3	56.7	4,469.7	0.00	0.00	0.00
15,000.0	90.00	179.59	10,700.0	-4,569.3	57.4	4,569.7	0.00	0.00	0.00
15,100.0	90.00	179.59	10,700.0	-4,669.3	58.2	4,669.7	0.00	0.00	0.00
15,200.0	90.00	179.59	10,700.0	-4,769.3	58.9	4,769.7	0.00	0.00	0.00
15,300.0	90.00	179.59	10,700.0	-4,869.3	59.6	4,869.7	0.00	0.00	0.00
15,400.0	90.00	179.59	10,700.0	-4,969.3	60.3	4,969.7	0.00	0.00	0.00
15,500.0	90.00	179.59	10,700.0	-5,069.3	61.1	5,069.7	0.00	0.00	0.00
15,600.0	90.00	179.59	10,700.0	-5,169.3	61.8	5,169.7	0.00	0.00	0.00
15,700.0	90.00	179.59	10,700.0	-5,269.3	62.5	5,269.7	0.00	0.00	0.00
15,800.0	90.00	179.59	10,700.0	-5,369.3	63.2	5,369.7	0.00	0.00	0.00
15,900.0	90.00	179.59	10,700.0	-5,469.3	64.0	5,469.7	0.00	0.00	0.00
16,000.0	90.00	179.59	10,700.0	-5,569.3	64.7	5,569.7	0.00	0.00	0.00
16,100.0	90.00	179.59	10,700.0	-5,669.3	65.4	5,669.7	0.00	0.00	0.00
16,200.0	90.00	179.59	10,700.0	-5,769.3	66.1	5,769.7	0.00	0.00	0.00
16,300.0	90.00	179.59	10,700.0	-5,869.3	66.8	5,869.7	0.00	0.00	0.00
16,400.0	90.00	179.59	10,700.0	-5,969.3	67.6	5,969.7	0.00	0.00	0.00
16,500.0	90.00	179.59	10,700.0	-6,069.3	68.3	6,069.7	0.00	0.00	0.00
16,600.0	90.00	179.59	10,700.0	-6,169.3	69.0	6,169.7	0.00	0.00	0.00
16,700.0	90.00	179.59	10,700.0	-6,269.3	69.7	6,269.7	0.00	0.00	0.00
16,800.0	90.00	179.59	10,700.0	-6,369.3	70.5	6,369.7	0.00	0.00	0.00
16,900.0	90.00	179.59	10,700.0	-6,469.3	71.2	6,469.7	0.00	0.00	0.00
17,000.0	90.00	179.59	10,700.0	-6,569.3	71.9	6,569.7	0.00	0.00	0.00
17,100.0	90.00	179.59	10,700.0	-6,669.3	72.6	6,669.7	0.00	0.00	0.00
17,200.0	90.00	179.59	10,700.0	-6,769.3	73.4	6,769.7	0.00	0.00	0.00
17,300.0	90.00	179.59	10,700.0	-6,869.3	74.1	6,869.7	0.00	0.00	0.00
17,400.0	90.00	179.59	10,700.0	-6,969.3	74.8	6,969.7	0.00	0.00	0.00
17,500.0	90.00	179.59	10,700.0	-7,069.2	75.5	7,069.7	0.00	0.00	0.00
17,600.0	90.00	179.59	10,700.0	-7,169.2	76.3	7,169.7	0.00	0.00	0.00
17,700.0	90.00	179.59	10,700.0	-7,269.2	77.0	7,269.7	0.00	0.00	0.00
17,800.0	90.00	179.59	10,700.0	-7,369.2	77.7	7,369.7	0.00	0.00	0.00
17,900.0	90.00	179.59	10,700.0	-7,469.2	78.4	7,469.7	0.00	0.00	0.00
18,000.0	90.00	179.59	10,700.0	-7,569.2	79.1	7,569.6	0.00	0.00	0.00
18,100.0	90.00	179.59	10,700.0	-7,669.2	79.9	7,669.6	0.00	0.00	0.00
18,200.0	90.00	179.59	10,700.0	-7,769.2	80.6	7,769.6	0.00	0.00	0.00
18,300.0	90.00	179.59	10,700.0	-7,869.2	81.3	7,869.6	0.00	0.00	0.00
18,400.0	90.00	179.59	10,700.0	-7,969.2	82.0	7,969.6	0.00	0.00	0.00
18,500.0	90.00	179.59	10,700.0	-8,069.2	82.8	8,069.6	0.00	0.00	0.00
18,518.5	90.00	179.59	10,700.0	-8,087.7	82.9	8,088.1	0.00	0.00	0.00

TD at 18518.5

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Bell Lake Unit North 201H
Company:	Kaiser Francis Oil Company	TVD Reference:	Well @ 3540.0usft
Project:	Lea County, NM (NAD 27)	MD Reference:	Well @ 3540.0usft
Site:	Bell Lake Unit Pad	North Reference:	Grid
Well:	Bell Lake Unit North 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL BLUN 201H (214 - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	486,486.90	747,172.00	32° 20' 5.749 N	103° 31' 59.085 W
KOP BLUN 201H Pln - plan hits target center - Point	0.00	0.00	10,127.0	-24.2	24.6	486,462.69	747,196.55	32° 20' 5.508 N	103° 31' 58.801 W
FTP BLUN 201H Pln - plan hits target center - Point	0.00	0.00	10,700.0	-597.2	28.7	485,889.75	747,200.70	32° 19' 59.838 N	103° 31' 58.803 W
PBHL BLUN 201H Plr - plan hits target center - Point	0.00	0.00	10,700.0	-8,087.7	82.9	478,399.20	747,254.90	32° 18' 45.713 N	103° 31' 58.823 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,738.6	8,738.6	0.0	0.0	Start Build 2.00
8,868.8	8,868.8	-2.1	2.1	Start 628.7 hold at 8868.8 MD
9,497.5	9,496.8	-22.1	22.4	Start Drop -2.00
9,627.7	9,627.0	-24.2	24.6	Start 500.0 hold at 9627.7 MD
10,127.7	10,127.0	-24.2	24.6	Start DLS 10.00 TFO 179.59
11,027.7	10,700.0	-597.2	28.7	Start 7490.7 hold at 11027.7 MD
18,518.5	10,700.0	-8,087.7	82.9	TD at 18518.5



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

HOBBS OCT

APR 17 2018

RECEIVE

SIGNATURE:

TITLE:

QUALITY ASSURANCE

DATE:

10/3/2017



JOB REPORT

COMPANY DETAILS

Company: Austin
Contact:
Phone:

Email: irene.pizana@gates.com

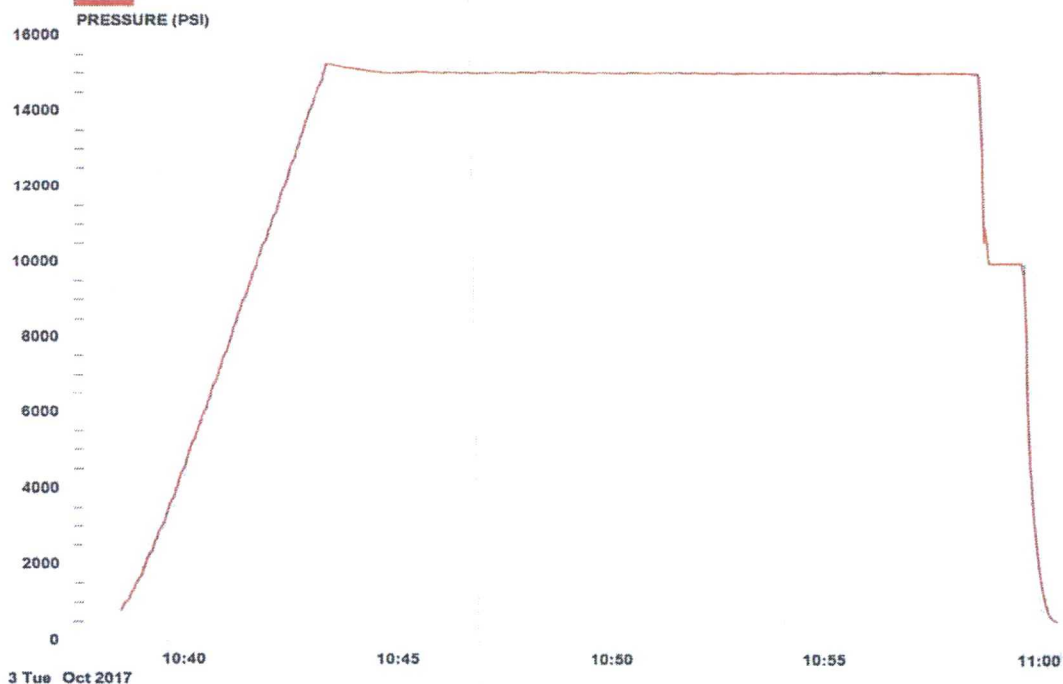
JOB DETAILS

DATE October 03, 2017
START TIME 10:38:29
END TIME 11:00:25
Gates Rep: Chris Olivo
Recommendation: H-100317-2
Working Pressure: 10000
Ext Inspection: Pass
Fitting Inspection: Pass
Test pressure: 15000
Serial No: H-100317-2

Length: 35'
Inner Diameter: 3.0"
Pressure Test: Pass
Internal Inspection: N/A
Fitting Type: 10K Flange ExE



SUMMARY GRAPH



**Kaiser-Francis Oil Company
Bell Lake Unit North #201H
Casing Assumptions**

[illegible]

1.6	2.00	180.00	24.5	Start 500.0 hold
1.6	0.00	0.00	24.5	Start DLS 10.00
3.7	10.00	179.59	597.4	Start 7490.7 hold
2.9	0.00	0.00	8088.1	TD at 18518.5

WELL DETAILS: Bell Lake Unit North 201H

		3517.0	
ing	Easting	Latitude	Longitude
8.90	747172.00	32° 20' 5.749 N	103° 31' 59.085 W

isft	
ude	Longitude
19 N	103° 31' 59.085 W

