

ConocoPhillips RBU Gold Data_Niobrara

Niobrara - CO Central Zone

Tiberius

Tiberius 4-64 8-7 4CH

Tiberius 4-64 8-7 4CH

Plan: Tiberius 4-64 8-7 4CH

Standard Planning Report

10 October, 2016

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Tiberius 4-64 8-7 4CH
Company:	ConocoPhillips RBU Gold Data_Niobrara	TVD Reference:	25' RKB @ 5657.10ft
Project:	Niobrara - CO Central Zone	MD Reference:	25' RKB @ 5657.10ft
Site:	Tiberius	North Reference:	True
Well:	Tiberius 4-64 8-7 4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiberius 4-64 8-7 4CH		
Design:	Tiberius 4-64 8-7 4CH		

Project	Niobrara - CO Central Zone, Arapahoe, Douglas, Elbert County - Colorado, Definitive (Gold) Database		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site		Tiberius			
Site Position:		Northing:	1,690,293.752 usft	Latitude:	39° 43' 30.871 N
From:	Lat/Long	Easting:	3,252,227.891 usft	Longitude:	104° 36' 11.790 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.57 °

Well	Tiberius 4-64 8-7 4CH					
Well Position	+N/-S	-4,910.55 ft	Northing:	1,685,487.106 usft	Latitude:	39° 42' 42.320 N
	+E/-W	10,498.57 ft	Easting:	3,262,774.349 usft	Longitude:	104° 33' 57.450 W
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,632.10 ft

Wellbore	Tiberius 4-64 8-7 4CH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	10/10/2016	8.29	66.42	52,134

Design	Tiberius 4-64 8-7 4CH			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	271.23

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	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,542.70	0.64	359.66	5,542.70	0.24	0.00	1.50	1.50	0.00	359.66	
6,983.33	0.64	359.66	6,983.23	16.34	-0.10	0.00	0.00	0.00	0.00	
7,883.17	90.00	271.07	7,556.00	33.41	-572.83	10.00	9.93	-9.85	-88.60	Tiberius 4-64 8-7 4CH
15,451.64	90.00	271.07	7,556.00	174.34	-8,139.99	0.00	0.00	0.00	0.00	Tiberius 4-64 8-7 4CH

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Tiberius 4-64 8-7 4CH
Company:	ConocoPhillips RBU Gold Data_Niobrara	TVD Reference:	25' RKB @ 5657.10ft
Project:	Niobrara - CO Central Zone	MD Reference:	25' RKB @ 5657.10ft
Site:	Tiberius	North Reference:	True
Well:	Tiberius 4-64 8-7 4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiberius 4-64 8-7 4CH		
Design:	Tiberius 4-64 8-7 4CH		

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
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

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Tiberius 4-64 8-7 4CH
Company:	ConocoPhillips RBU Gold Data_Niobrara	TVD Reference:	25' RKB @ 5657.10ft
Project:	Niobrara - CO Central Zone	MD Reference:	25' RKB @ 5657.10ft
Site:	Tiberius	North Reference:	True
Well:	Tiberius 4-64 8-7 4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiberius 4-64 8-7 4CH		
Design:	Tiberius 4-64 8-7 4CH		

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)
5,400.00	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
5,542.70	0.64	359.66	5,542.70	0.24	0.00	0.01	1.50	1.50	0.00
5,600.00	0.64	359.66	5,600.00	0.88	-0.01	0.02	0.00	0.00	0.00
5,700.00	0.64	359.66	5,699.99	2.00	-0.01	0.05	0.00	0.00	0.00
5,800.00	0.64	359.66	5,799.98	3.11	-0.02	0.08	0.00	0.00	0.00
5,900.00	0.64	359.66	5,899.98	4.23	-0.02	0.12	0.00	0.00	0.00
6,000.00	0.64	359.66	5,999.97	5.35	-0.03	0.15	0.00	0.00	0.00
6,100.00	0.64	359.66	6,099.96	6.47	-0.04	0.18	0.00	0.00	0.00
6,200.00	0.64	359.66	6,199.96	7.59	-0.04	0.21	0.00	0.00	0.00
6,300.00	0.64	359.66	6,299.95	8.70	-0.05	0.24	0.00	0.00	0.00
6,400.00	0.64	359.66	6,399.95	9.82	-0.06	0.27	0.00	0.00	0.00
6,500.00	0.64	359.66	6,499.94	10.94	-0.06	0.30	0.00	0.00	0.00
6,600.00	0.64	359.66	6,599.93	12.06	-0.07	0.33	0.00	0.00	0.00
6,700.00	0.64	359.66	6,699.93	13.18	-0.08	0.36	0.00	0.00	0.00
6,800.00	0.64	359.66	6,799.92	14.29	-0.08	0.39	0.00	0.00	0.00
6,900.00	0.64	359.66	6,899.91	15.41	-0.09	0.42	0.00	0.00	0.00
6,983.33	0.64	359.66	6,983.23	16.34	-0.10	0.45	0.00	0.00	0.00
7,000.00	1.80	291.89	6,999.91	16.53	-0.34	0.69	10.00	6.96	-406.47
7,050.00	6.71	276.51	7,049.75	17.16	-3.97	4.34	10.00	9.83	-30.75
7,100.00	11.70	274.16	7,099.09	17.86	-11.94	12.32	10.00	9.97	-4.71
7,150.00	16.70	273.20	7,147.55	18.63	-24.17	24.57	10.00	9.99	-1.92
7,200.00	21.69	272.68	7,194.76	19.46	-40.59	40.99	10.00	9.99	-1.05
7,250.00	26.69	272.34	7,240.35	20.35	-61.05	61.47	10.00	10.00	-0.67
7,300.00	31.69	272.10	7,283.99	21.29	-85.41	85.84	10.00	10.00	-0.47
7,350.00	36.69	271.93	7,325.34	22.28	-113.48	113.93	10.00	10.00	-0.36
7,400.00	41.69	271.79	7,364.08	23.30	-145.04	145.51	10.00	10.00	-0.28
7,450.00	46.69	271.67	7,399.92	24.35	-179.87	180.35	10.00	10.00	-0.23
7,500.00	51.69	271.57	7,432.59	25.42	-217.68	218.18	10.00	10.00	-0.20
7,550.00	56.69	271.49	7,461.84	26.50	-258.20	258.71	10.00	10.00	-0.17
7,600.00	61.69	271.41	7,487.44	27.58	-301.11	301.64	10.00	10.00	-0.15
7,650.00	66.68	271.34	7,509.21	28.67	-346.10	346.63	10.00	10.00	-0.14
7,700.00	71.68	271.28	7,526.97	29.73	-392.81	393.35	10.00	10.00	-0.13
7,750.00	76.68	271.22	7,540.59	30.78	-440.89	441.45	10.00	10.00	-0.12
7,800.00	81.68	271.16	7,549.97	31.80	-489.97	490.54	10.00	10.00	-0.12
7,850.00	86.68	271.10	7,555.04	32.78	-539.69	540.27	10.00	10.00	-0.11
7,883.17	90.00	271.07	7,556.00	33.41	-572.83	573.42	10.00	10.00	-0.11
7,900.00	90.00	271.07	7,556.00	33.72	-589.66	590.25	0.00	0.00	0.00
8,000.00	90.00	271.07	7,556.00	35.59	-689.65	690.25	0.00	0.00	0.00
8,100.00	90.00	271.07	7,556.00	37.45	-789.63	790.25	0.00	0.00	0.00
8,200.00	90.00	271.07	7,556.00	39.31	-889.61	890.25	0.00	0.00	0.00
8,300.00	90.00	271.07	7,556.00	41.17	-989.59	990.25	0.00	0.00	0.00
8,400.00	90.00	271.07	7,556.00	43.03	-1,089.58	1,090.25	0.00	0.00	0.00
8,500.00	90.00	271.07	7,556.00	44.90	-1,189.56	1,190.25	0.00	0.00	0.00
8,600.00	90.00	271.07	7,556.00	46.76	-1,289.54	1,290.25	0.00	0.00	0.00
8,700.00	90.00	271.07	7,556.00	48.62	-1,389.52	1,390.25	0.00	0.00	0.00
8,800.00	90.00	271.07	7,556.00	50.48	-1,489.51	1,490.25	0.00	0.00	0.00
8,900.00	90.00	271.07	7,556.00	52.34	-1,589.49	1,590.25	0.00	0.00	0.00
9,000.00	90.00	271.07	7,556.00	54.21	-1,689.47	1,690.25	0.00	0.00	0.00
9,100.00	90.00	271.07	7,556.00	56.07	-1,789.45	1,790.25	0.00	0.00	0.00
9,200.00	90.00	271.07	7,556.00	57.93	-1,889.44	1,890.24	0.00	0.00	0.00
9,300.00	90.00	271.07	7,556.00	59.79	-1,989.42	1,990.24	0.00	0.00	0.00
9,400.00	90.00	271.07	7,556.00	61.65	-2,089.40	2,090.24	0.00	0.00	0.00
9,500.00	90.00	271.07	7,556.00	63.52	-2,189.39	2,190.24	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Tiberius 4-64 8-7 4CH
Company:	ConocoPhillips RBU Gold Data_Niobrara	TVD Reference:	25' RKB @ 5657.10ft
Project:	Niobrara - CO Central Zone	MD Reference:	25' RKB @ 5657.10ft
Site:	Tiberius	North Reference:	True
Well:	Tiberius 4-64 8-7 4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiberius 4-64 8-7 4CH		
Design:	Tiberius 4-64 8-7 4CH		

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)
9,600.00	90.00	271.07	7,556.00	65.38	-2,289.37	2,290.24	0.00	0.00	0.00
9,700.00	90.00	271.07	7,556.00	67.24	-2,389.35	2,390.24	0.00	0.00	0.00
9,800.00	90.00	271.07	7,556.00	69.10	-2,489.33	2,490.24	0.00	0.00	0.00
9,900.00	90.00	271.07	7,556.00	70.96	-2,589.32	2,590.24	0.00	0.00	0.00
10,000.00	90.00	271.07	7,556.00	72.83	-2,689.30	2,690.24	0.00	0.00	0.00
10,100.00	90.00	271.07	7,556.00	74.69	-2,789.28	2,790.24	0.00	0.00	0.00
10,200.00	90.00	271.07	7,556.00	76.55	-2,889.26	2,890.24	0.00	0.00	0.00
10,300.00	90.00	271.07	7,556.00	78.41	-2,989.25	2,990.24	0.00	0.00	0.00
10,400.00	90.00	271.07	7,556.00	80.27	-3,089.23	3,090.24	0.00	0.00	0.00
10,500.00	90.00	271.07	7,556.00	82.14	-3,189.21	3,190.24	0.00	0.00	0.00
10,600.00	90.00	271.07	7,556.00	84.00	-3,289.19	3,290.24	0.00	0.00	0.00
10,700.00	90.00	271.07	7,556.00	85.86	-3,389.18	3,390.24	0.00	0.00	0.00
10,800.00	90.00	271.07	7,556.00	87.72	-3,489.16	3,490.24	0.00	0.00	0.00
10,900.00	90.00	271.07	7,556.00	89.58	-3,589.14	3,590.24	0.00	0.00	0.00
11,000.00	90.00	271.07	7,556.00	91.45	-3,689.13	3,690.24	0.00	0.00	0.00
11,100.00	90.00	271.07	7,556.00	93.31	-3,789.11	3,790.24	0.00	0.00	0.00
11,200.00	90.00	271.07	7,556.00	95.17	-3,889.09	3,890.24	0.00	0.00	0.00
11,300.00	90.00	271.07	7,556.00	97.03	-3,989.07	3,990.24	0.00	0.00	0.00
11,400.00	90.00	271.07	7,556.00	98.89	-4,089.06	4,090.24	0.00	0.00	0.00
11,500.00	90.00	271.07	7,556.00	100.76	-4,189.04	4,190.24	0.00	0.00	0.00
11,600.00	90.00	271.07	7,556.00	102.62	-4,289.02	4,290.24	0.00	0.00	0.00
11,700.00	90.00	271.07	7,556.00	104.48	-4,389.00	4,390.24	0.00	0.00	0.00
11,800.00	90.00	271.07	7,556.00	106.34	-4,488.99	4,490.23	0.00	0.00	0.00
11,900.00	90.00	271.07	7,556.00	108.20	-4,588.97	4,590.23	0.00	0.00	0.00
12,000.00	90.00	271.07	7,556.00	110.07	-4,688.95	4,690.23	0.00	0.00	0.00
12,100.00	90.00	271.07	7,556.00	111.93	-4,788.93	4,790.23	0.00	0.00	0.00
12,200.00	90.00	271.07	7,556.00	113.79	-4,888.92	4,890.23	0.00	0.00	0.00
12,300.00	90.00	271.07	7,556.00	115.65	-4,988.90	4,990.23	0.00	0.00	0.00
12,400.00	90.00	271.07	7,556.00	117.51	-5,088.88	5,090.23	0.00	0.00	0.00
12,500.00	90.00	271.07	7,556.00	119.38	-5,188.87	5,190.23	0.00	0.00	0.00
12,600.00	90.00	271.07	7,556.00	121.24	-5,288.85	5,290.23	0.00	0.00	0.00
12,700.00	90.00	271.07	7,556.00	123.10	-5,388.83	5,390.23	0.00	0.00	0.00
12,800.00	90.00	271.07	7,556.00	124.96	-5,488.81	5,490.23	0.00	0.00	0.00
12,900.00	90.00	271.07	7,556.00	126.82	-5,588.80	5,590.23	0.00	0.00	0.00
13,000.00	90.00	271.07	7,556.00	128.69	-5,688.78	5,690.23	0.00	0.00	0.00
13,100.00	90.00	271.07	7,556.00	130.55	-5,788.76	5,790.23	0.00	0.00	0.00
13,200.00	90.00	271.07	7,556.00	132.41	-5,888.74	5,890.23	0.00	0.00	0.00
13,300.00	90.00	271.07	7,556.00	134.27	-5,988.73	5,990.23	0.00	0.00	0.00
13,400.00	90.00	271.07	7,556.00	136.14	-6,088.71	6,090.23	0.00	0.00	0.00
13,500.00	90.00	271.07	7,556.00	138.00	-6,188.69	6,190.23	0.00	0.00	0.00
13,600.00	90.00	271.07	7,556.00	139.86	-6,288.67	6,290.23	0.00	0.00	0.00
13,700.00	90.00	271.07	7,556.00	141.72	-6,388.66	6,390.23	0.00	0.00	0.00
13,800.00	90.00	271.07	7,556.00	143.58	-6,488.64	6,490.23	0.00	0.00	0.00
13,900.00	90.00	271.07	7,556.00	145.45	-6,588.62	6,590.23	0.00	0.00	0.00
14,000.00	90.00	271.07	7,556.00	147.31	-6,688.61	6,690.23	0.00	0.00	0.00
14,100.00	90.00	271.07	7,556.00	149.17	-6,788.59	6,790.23	0.00	0.00	0.00
14,200.00	90.00	271.07	7,556.00	151.03	-6,888.57	6,890.23	0.00	0.00	0.00
14,300.00	90.00	271.07	7,556.00	152.89	-6,988.55	6,990.23	0.00	0.00	0.00
14,400.00	90.00	271.07	7,556.00	154.76	-7,088.54	7,090.22	0.00	0.00	0.00
14,500.00	90.00	271.07	7,556.00	156.62	-7,188.52	7,190.22	0.00	0.00	0.00
14,600.00	90.00	271.07	7,556.00	158.48	-7,288.50	7,290.22	0.00	0.00	0.00
14,700.00	90.00	271.07	7,556.00	160.34	-7,388.48	7,390.22	0.00	0.00	0.00
14,800.00	90.00	271.07	7,556.00	162.20	-7,488.47	7,490.22	0.00	0.00	0.00
14,900.00	90.00	271.07	7,556.00	164.07	-7,588.45	7,590.22	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Tiberius 4-64 8-7 4CH
Company:	ConocoPhillips RBU Gold Data_Niobrara	TVD Reference:	25' RKB @ 5657.10ft
Project:	Niobrara - CO Central Zone	MD Reference:	25' RKB @ 5657.10ft
Site:	Tiberius	North Reference:	True
Well:	Tiberius 4-64 8-7 4CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiberius 4-64 8-7 4CH		
Design:	Tiberius 4-64 8-7 4CH		

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)
15,000.00	90.00	271.07	7,556.00	165.93	-7,688.43	7,690.22	0.00	0.00	0.00
15,100.00	90.00	271.07	7,556.00	167.79	-7,788.41	7,790.22	0.00	0.00	0.00
15,200.00	90.00	271.07	7,556.00	169.65	-7,888.40	7,890.22	0.00	0.00	0.00
15,300.00	90.00	271.07	7,556.00	171.51	-7,988.38	7,990.22	0.00	0.00	0.00
15,400.00	90.00	271.07	7,556.00	173.38	-8,088.36	8,090.22	0.00	0.00	0.00
15,451.64	90.00	271.07	7,556.00	174.34	-8,139.99	8,141.86	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Tiberius 4-64 8-7 4CH B	0.00	0.00	7,556.00	174.34	-8,139.99	1,685,577.743	3,254,633.072	39° 42' 44.030 N	104° 35' 41.610 W
- plan hits target center									
- Point									
Tiberius 4-64 8-7 4CH B	0.00	0.00	7,556.00	33.41	-572.83	1,685,514.625	3,262,201.206	39° 42' 42.650 N	104° 34' 4.780 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,947.00	1,947.00	Surface	9-5/8	13-1/2	
15,451.64	7,556.00	Production	5-1/2	8-3/4	



ConocoPhillips

Arapahoe County, Colorado

Tiberius 4-64 8-7 4CH

Well Profile Data

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00
5542.70	0.64	359.66	5542.70	0.24	0.00	1.50	0.01
6983.33	0.64	359.66	6983.23	16.34	-0.10	0.00	0.45
7883.17	90.00	271.07	7556.00	33.41	-572.83	10.00	573.42
15451.64	90.00	271.07	7556.00	174.34	-8139.99	0.00	8141.86

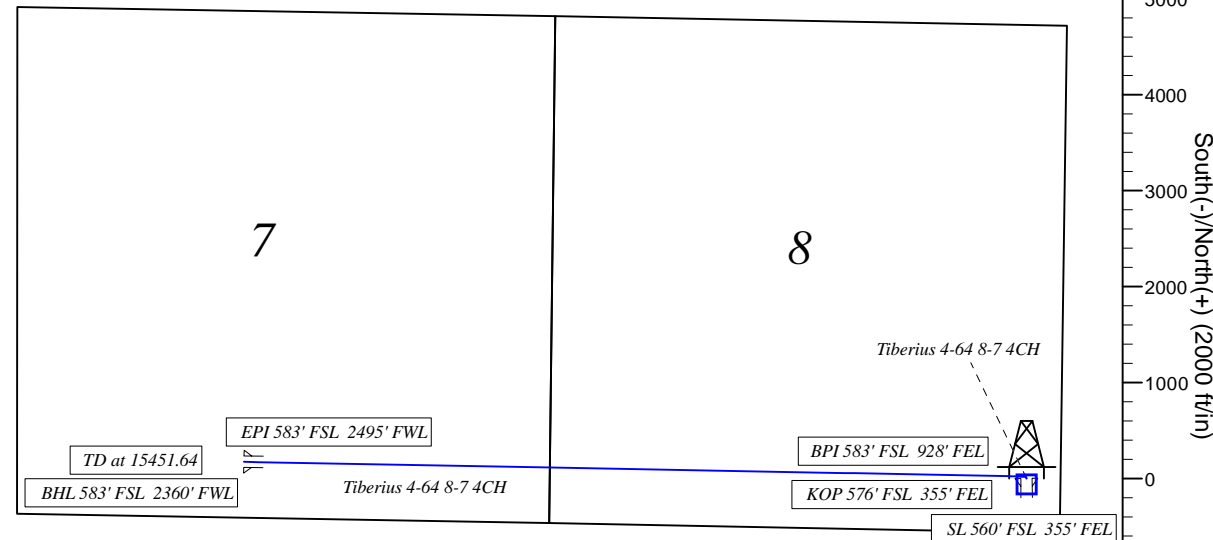
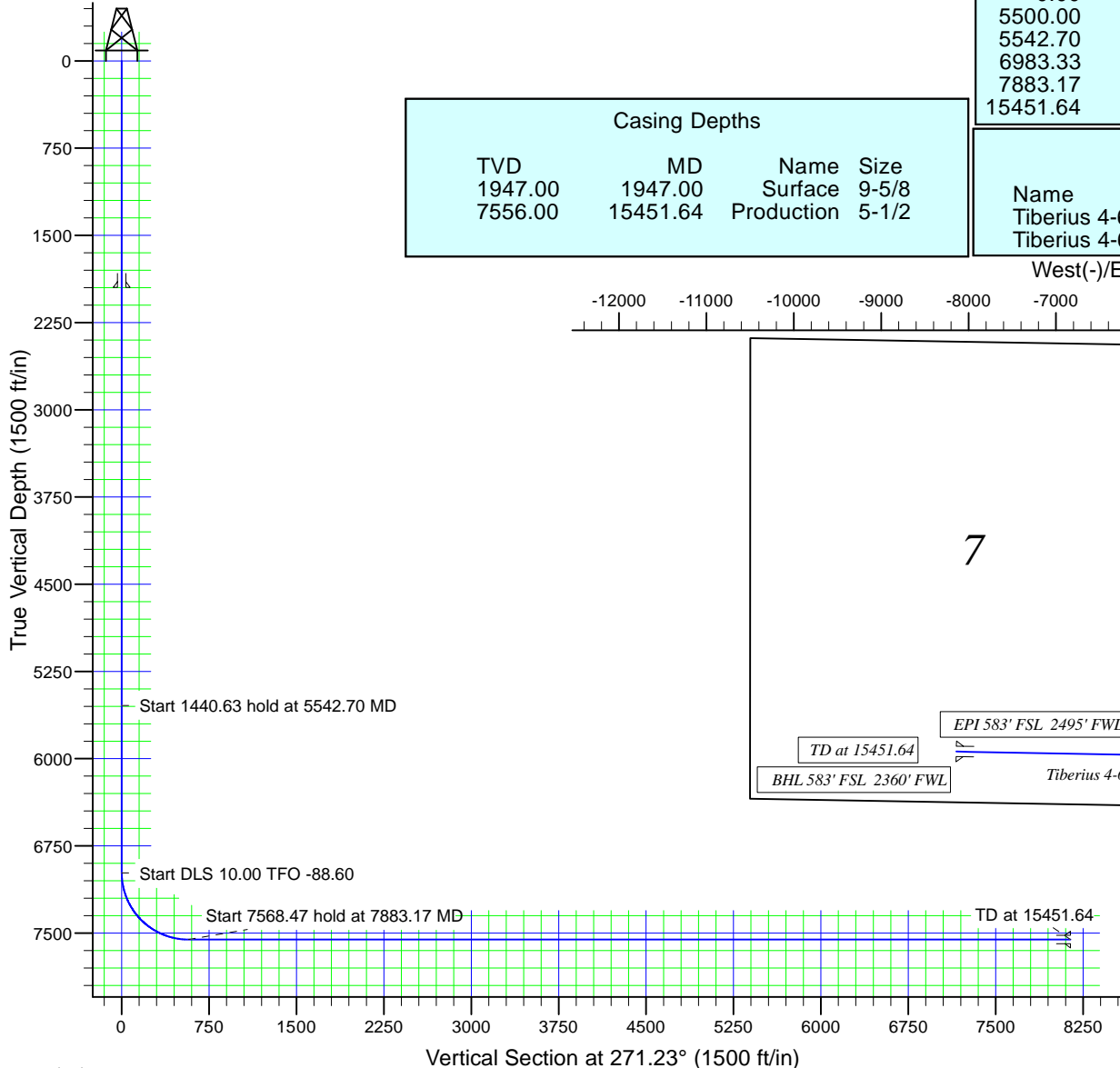
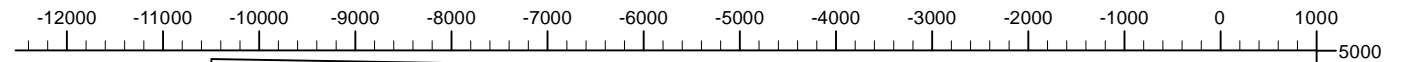
Casing Depths

TVD	MD	Name	Size
1947.00	1947.00	Surface	9-5/8
7556.00	15451.64	Production	5-1/2

Well Targets

Name	TVD	Latitude	Longitude
Tiberius 4-64 8-7 4CH BHL	7556.00	39° 42' 44.030 N	104° 35' 41.610 W
Tiberius 4-64 8-7 4CH BPI	7556.00	39° 42' 42.650 N	104° 34' 4.780 W

West(-)/East(+) (2000 ft/in)



Section Lines

North American Datum 1983
GRS 1980
US State Plane 1983
Colorado Central Zone

Ground Level: 5632.10
Surface Location Latitude: 39° 42' 42.320 N
Surface Location Longitude: 104° 33' 57.450 W
North Reference: True
25' RKB @ 5657.10ft