



# ConocoPhillips

## Arapahoe County, Colorado

### Chico 4-65 26-25 3AH

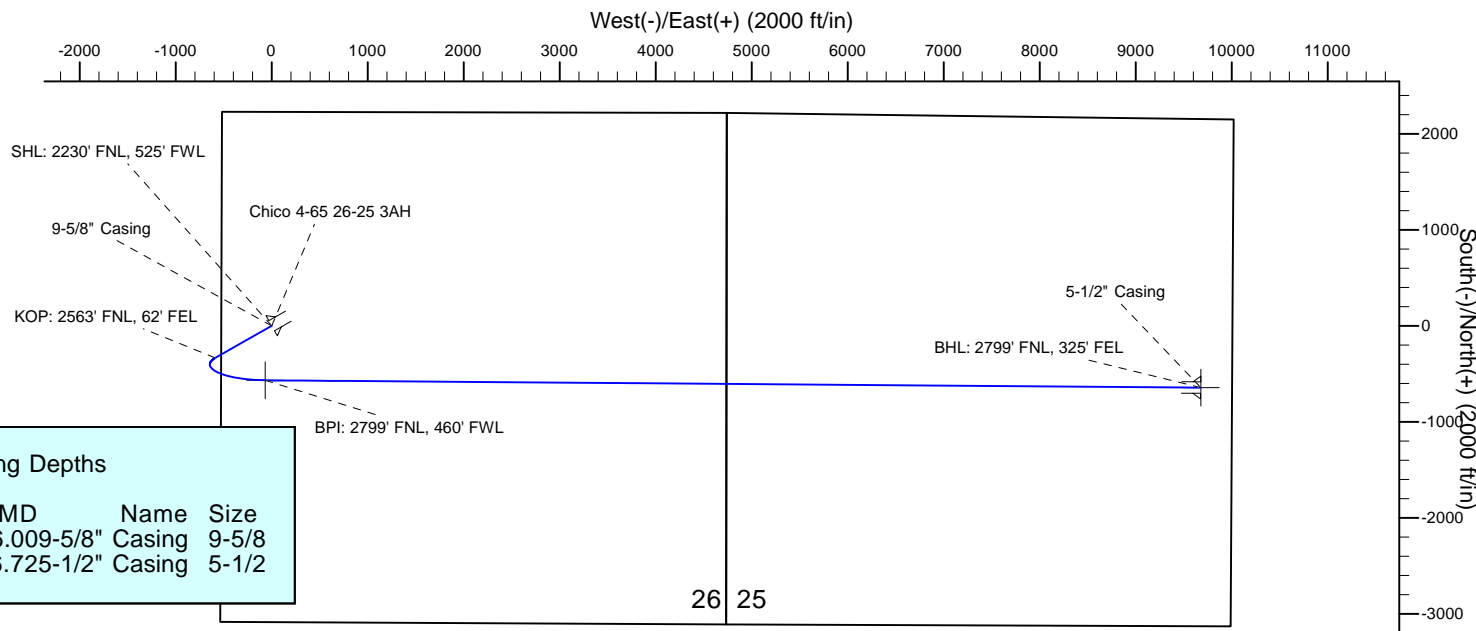
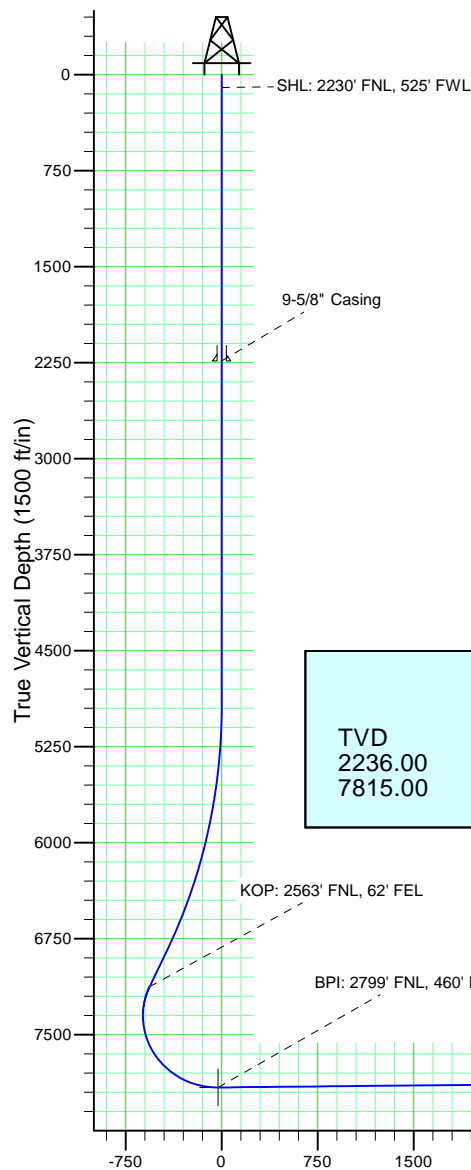
#### Design A

Ground Level: 5791.30  
Surface Location Latitude: 39° 40' 33.050 N  
Surface Location Longitude: 104° 38' 20.570 W  
North Reference: True  
25' RKB @ 5816.30ft (25' RKB)

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

#### 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
4933.00	0.00	0.00	4933.00	0.00	0.00	0.00	0.00
6933.03	30.00	240.41	6842.88	-252.71	-445.01	1.50	-427.26
7258.85	30.00	240.41	7125.05	-333.15	-586.68	0.00	-563.28
8420.87	90.58	90.45	7913.00	-567.62	-66.46	10.00	-28.65
18166.72	90.58	90.45	7815.00	-643.70	9678.60	0.00	9699.98



#### Casing Depths

TVD	MD	Name	Size
2236.00	2236.00	9-5/8\" Casing	9-5/8
7815.00	18166.72	5-1/2\" Casing	5-1/2

#### Wellbore Targets

Name	TVD	Latitude	Longitude
Chico 4-65 26-25 3AH BHL	7815.00	39° 40' 26.670 N	104° 36' 16.790 W
Chico 4-65 26-25 3AH BPI	7913.00	39° 40' 27.440 N	104° 38' 21.420 W

# **ConocoPhillips RBU Gold Data**

**Niobrara Central Zone**

**Chico**

**Chico 4-65 26-25 3AH**

**Chico 4-65 26-25 3AH**

**Plan: Design A**

## **Standard Planning Report**

**10 January, 2018**

# ConocoPhillips

## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Chico 4-65 26-25 3AH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

<b>Project</b>	Niobrara Central Zone, Colorado Central Zone, FIPS Zone: 0502		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

Site		Chico			
Site Position: From: Position Uncertainty:	Lat/Long	Northing:	1,674,430.510 usft	Latitude:	39° 40' 55.099 N
		Easting:	3,241,798.168 usft	Longitude:	104° 38' 27.190 W
		Slot Radius:	13-3/16 "	Grid Convergence:	0.54

Well	Chico 4-65 26-25 3AH					
Well Position	+N-S	-2,231.07 ft	Northing:	1,672,204.464 usft	Latitude:	39° 40' 33.050 N
	+E-W	517.59 ft	Easting:	3,242,336.821 usft	Longitude:	104° 38' 20.570 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,791.30 ft

<b>Wellbore</b>	Chico 4-65 26-25 3AH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2017	2/1/2018	8.21	66.32	51,937.58576373

<b>Design</b>	Design A				
<b>Audit Notes:</b>					
<b>Version:</b>	0	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	93.81	

<b>Plan Survey Tool Program</b>	<b>Date</b>	1/10/2018			
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	2,236.00	Design A (Chico 4-65 26-25 3AH)Gyro-BM-MS		
			Gyro - bat/mem drop m/s		
2	2,236.00	4,933.00	Design A (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
3	4,933.00	6,933.03	Design A (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
4	6,933.03	7,258.85	Design A (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
5	7,258.85	8,420.88	Design A (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
6	8,420.88	18,166.72	Design A (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

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	
4,933.00	0.00	0.00	4,933.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,933.03	30.00	240.41	6,842.88	-252.71	-445.01	1.50	1.50	0.00	240.41	
7,258.85	30.00	240.41	7,125.06	-333.15	-586.68	0.00	0.00	0.00	0.00	
8,420.87	90.58	90.45	7,913.00	-567.62	-66.46	10.00	5.21	-12.91	-146.09	Chico 4-65 26-25 3,
18,166.72	90.58	90.45	7,815.00	-643.70	9,678.60	0.00	0.00	0.00	0.00	Chico 4-65 26-25 3,

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

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
SHL: 2230' FNL, 525' FWL									
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
1,841.00	0.00	0.00	1,841.00	0.00	0.00	0.00	0.00	0.00	0.00
Fox Hills Top									
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
2,036.00	0.00	0.00	2,036.00	0.00	0.00	0.00	0.00	0.00	0.00
Pierre Top - Fox Hills Base									
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
2,236.00	0.00	0.00	2,236.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing - 9-5/8" Casing									
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

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## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Chico 4-65 26-25 3AH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

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)
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
4,933.00	0.00	0.00	4,933.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	1.01	240.41	5,000.00	-0.29	-0.51	-0.49	1.50	1.50	0.00
5,100.00	2.51	240.41	5,099.95	-1.80	-3.17	-3.05	1.50	1.50	0.00
5,200.00	4.01	240.41	5,199.78	-4.61	-8.11	-7.79	1.50	1.50	0.00
5,300.00	5.51	240.41	5,299.44	-8.70	-15.32	-14.71	1.50	1.50	0.00
5,400.00	7.01	240.41	5,398.84	-14.08	-24.79	-23.80	1.50	1.50	0.00
5,500.00	8.51	240.41	5,497.92	-20.74	-36.53	-35.07	1.50	1.50	0.00
5,600.00	10.01	240.41	5,596.62	-28.68	-50.51	-48.50	1.50	1.50	0.00
5,700.00	11.51	240.41	5,694.86	-37.90	-66.74	-64.08	1.50	1.50	0.00
5,800.00	13.01	240.41	5,792.57	-48.38	-85.20	-81.80	1.50	1.50	0.00
5,900.00	14.51	240.41	5,889.70	-60.12	-105.87	-101.65	1.50	1.50	0.00
6,000.00	16.01	240.41	5,986.18	-73.11	-128.75	-123.61	1.50	1.50	0.00
6,100.00	17.51	240.41	6,081.93	-87.35	-153.82	-147.68	1.50	1.50	0.00
6,200.00	19.01	240.41	6,176.89	-102.82	-181.06	-173.83	1.50	1.50	0.00
6,300.00	20.51	240.41	6,271.01	-119.51	-210.45	-202.05	1.50	1.50	0.00
6,400.00	22.01	240.41	6,364.20	-137.41	-241.97	-232.32	1.50	1.50	0.00
6,500.00	23.51	240.41	6,456.42	-156.50	-275.60	-264.61	1.50	1.50	0.00
6,600.00	25.01	240.41	6,547.59	-176.79	-311.32	-298.91	1.50	1.50	0.00
6,700.00	26.51	240.41	6,637.65	-198.25	-349.11	-335.18	1.50	1.50	0.00
6,800.00	28.01	240.41	6,726.54	-220.86	-388.93	-373.42	1.50	1.50	0.00
6,900.00	29.51	240.41	6,814.21	-244.61	-430.76	-413.58	1.50	1.50	0.00
6,933.03	30.00	240.41	6,842.88	-252.71	-445.01	-427.26	1.50	1.50	0.00
7,000.00	30.00	240.41	6,900.88	-269.24	-474.13	-455.22	0.00	0.00	0.00
7,100.00	30.00	240.41	6,987.49	-293.93	-517.61	-496.96	0.00	0.00	0.00
7,200.00	30.00	240.41	7,074.09	-318.62	-561.09	-538.71	0.00	0.00	0.00
7,258.85	30.00	240.41	7,125.05	-333.15	-586.68	-563.28	0.00	0.00	0.00
<b>KOP: 2563' FNL, 62' FEL</b>									
7,300.00	26.68	235.29	7,161.27	-343.50	-603.23	-579.10	10.00	-8.08	-12.43
7,350.00	22.95	227.31	7,206.66	-356.51	-619.63	-594.60	10.00	-7.44	-15.96
7,400.00	19.77	216.69	7,253.24	-369.90	-631.85	-605.91	10.00	-6.37	-21.24
7,450.00	17.42	202.79	7,300.65	-383.59	-639.81	-612.94	10.00	-4.70	-27.79
7,500.00	16.26	185.93	7,348.53	-397.46	-643.43	-615.64	10.00	-2.30	-33.72
7,550.00	16.56	168.20	7,396.52	-411.41	-642.70	-613.98	10.00	0.60	-35.46
7,600.00	18.24	152.40	7,444.26	-425.33	-637.61	-607.98	10.00	3.36	-31.61
7,650.00	20.98	139.87	7,491.38	-439.12	-628.21	-597.69	10.00	5.46	-25.06
7,700.00	24.41	130.41	7,537.51	-452.67	-614.57	-583.18	10.00	6.87	-18.92
7,750.00	28.29	123.28	7,582.32	-465.88	-596.79	-564.56	10.00	7.76	-14.26
7,800.00	32.45	117.79	7,625.46	-478.64	-575.00	-541.97	10.00	8.33	-10.97
7,850.00	36.81	113.46	7,666.60	-490.87	-549.38	-515.59	10.00	8.71	-8.67
7,900.00	41.29	109.93	7,705.43	-502.46	-520.11	-485.62	10.00	8.96	-7.05
7,950.00	45.86	106.99	7,741.65	-513.33	-487.43	-452.29	10.00	9.14	-5.89
8,000.00	50.49	104.47	7,774.98	-523.40	-451.57	-415.84	10.00	9.27	-5.03
8,022.54	52.60	103.45	7,789.00	-527.65	-434.44	-398.46	10.00	9.34	-4.55
<b>Niobrara Top</b>									
8,050.00	55.18	102.27	7,805.18	-532.59	-412.81	-376.56	10.00	9.38	-4.28
8,100.00	59.90	100.31	7,832.01	-540.82	-371.45	-334.75	10.00	9.44	-3.92
8,150.00	64.64	98.53	7,855.28	-548.05	-327.81	-290.72	10.00	9.49	-3.56
8,200.00	69.41	96.88	7,874.79	-554.21	-282.20	-244.80	10.00	9.53	-3.29
8,250.00	74.18	95.33	7,890.41	-559.25	-234.99	-197.36	10.00	9.56	-3.09
8,300.00	78.97	93.86	7,902.01	-563.14	-186.53	-148.75	10.00	9.58	-2.95

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## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Chico 4-65 26-25 3AH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

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)
8,305.31	79.48	93.71	7,903.00	-563.49	-181.33	-143.53	10.00	9.59	-2.89
<b>C Chalk Top</b>									
8,350.00	83.77	92.43	7,909.51	-565.85	-137.18	-99.33	10.00	9.59	-2.85
8,400.00	88.57	91.03	7,912.84	-567.35	-87.33	-49.49	10.00	9.60	-2.80
8,420.87	90.58	90.45	7,913.00	-567.62	-66.46	-28.65	10.00	9.60	-2.79
8,420.88	90.58	90.45	7,913.00	-567.62	-66.46	-28.64	0.00	0.00	0.00
<b>BPI: 2799' FNL, 460' FWL</b>									
8,500.00	90.58	90.45	7,912.20	-568.24	12.66	50.34	0.00	0.00	0.00
8,600.00	90.58	90.45	7,911.20	-569.02	112.65	150.16	0.00	0.00	0.00
8,700.00	90.58	90.45	7,910.19	-569.80	212.64	249.98	0.00	0.00	0.00
8,800.00	90.58	90.45	7,909.19	-570.58	312.63	349.81	0.00	0.00	0.00
8,900.00	90.58	90.45	7,908.18	-571.36	412.62	449.63	0.00	0.00	0.00
9,000.00	90.58	90.45	7,907.18	-572.14	512.62	549.45	0.00	0.00	0.00
9,100.00	90.58	90.45	7,906.17	-572.92	612.61	649.28	0.00	0.00	0.00
9,200.00	90.58	90.45	7,905.17	-573.70	712.60	749.10	0.00	0.00	0.00
9,300.00	90.58	90.45	7,904.16	-574.49	812.59	848.92	0.00	0.00	0.00
9,400.00	90.58	90.45	7,903.15	-575.27	912.58	948.75	0.00	0.00	0.00
9,500.00	90.58	90.45	7,902.15	-576.05	1,012.58	1,048.57	0.00	0.00	0.00
9,600.00	90.58	90.45	7,901.14	-576.83	1,112.57	1,148.39	0.00	0.00	0.00
9,700.00	90.58	90.45	7,900.14	-577.61	1,212.56	1,248.22	0.00	0.00	0.00
9,800.00	90.58	90.45	7,899.13	-578.39	1,312.55	1,348.04	0.00	0.00	0.00
9,900.00	90.58	90.45	7,898.13	-579.17	1,412.54	1,447.86	0.00	0.00	0.00
10,000.00	90.58	90.45	7,897.12	-579.95	1,512.54	1,547.69	0.00	0.00	0.00
10,100.00	90.58	90.45	7,896.12	-580.73	1,612.53	1,647.51	0.00	0.00	0.00
10,200.00	90.58	90.45	7,895.11	-581.51	1,712.52	1,747.33	0.00	0.00	0.00
10,300.00	90.58	90.45	7,894.10	-582.29	1,812.51	1,847.16	0.00	0.00	0.00
10,400.00	90.58	90.45	7,893.10	-583.07	1,912.50	1,946.98	0.00	0.00	0.00
10,500.00	90.58	90.45	7,892.09	-583.85	2,012.49	2,046.80	0.00	0.00	0.00
10,600.00	90.58	90.45	7,891.09	-584.63	2,112.49	2,146.63	0.00	0.00	0.00
10,700.00	90.58	90.45	7,890.08	-585.41	2,212.48	2,246.45	0.00	0.00	0.00
10,800.00	90.58	90.45	7,889.08	-586.19	2,312.47	2,346.27	0.00	0.00	0.00
10,900.00	90.58	90.45	7,888.07	-586.98	2,412.46	2,446.10	0.00	0.00	0.00
11,000.00	90.58	90.45	7,887.07	-587.76	2,512.45	2,545.92	0.00	0.00	0.00
11,100.00	90.58	90.45	7,886.06	-588.54	2,612.45	2,645.74	0.00	0.00	0.00
11,200.00	90.58	90.45	7,885.05	-589.32	2,712.44	2,745.57	0.00	0.00	0.00
11,300.00	90.58	90.45	7,884.05	-590.10	2,812.43	2,845.39	0.00	0.00	0.00
11,400.00	90.58	90.45	7,883.04	-590.88	2,912.42	2,945.21	0.00	0.00	0.00
11,500.00	90.58	90.45	7,882.04	-591.66	3,012.41	3,045.04	0.00	0.00	0.00
11,600.00	90.58	90.45	7,881.03	-592.44	3,112.41	3,144.86	0.00	0.00	0.00
11,700.00	90.58	90.45	7,880.03	-593.22	3,212.40	3,244.68	0.00	0.00	0.00
11,800.00	90.58	90.45	7,879.02	-594.00	3,312.39	3,344.51	0.00	0.00	0.00
11,900.00	90.58	90.45	7,878.02	-594.78	3,412.38	3,444.33	0.00	0.00	0.00
12,000.00	90.58	90.45	7,877.01	-595.56	3,512.37	3,544.15	0.00	0.00	0.00
12,100.00	90.58	90.45	7,876.00	-596.34	3,612.37	3,643.98	0.00	0.00	0.00
12,200.00	90.58	90.45	7,875.00	-597.12	3,712.36	3,743.80	0.00	0.00	0.00
12,300.00	90.58	90.45	7,873.99	-597.90	3,812.35	3,843.62	0.00	0.00	0.00
12,400.00	90.58	90.45	7,872.99	-598.69	3,912.34	3,943.45	0.00	0.00	0.00
12,500.00	90.58	90.45	7,871.98	-599.47	4,012.33	4,043.27	0.00	0.00	0.00
12,600.00	90.58	90.45	7,870.98	-600.25	4,112.32	4,143.09	0.00	0.00	0.00
12,700.00	90.58	90.45	7,869.97	-601.03	4,212.32	4,242.92	0.00	0.00	0.00
12,800.00	90.58	90.45	7,868.97	-601.81	4,312.31	4,342.74	0.00	0.00	0.00
12,900.00	90.58	90.45	7,867.96	-602.59	4,412.30	4,442.56	0.00	0.00	0.00
13,000.00	90.58	90.45	7,866.95	-603.37	4,512.29	4,542.39	0.00	0.00	0.00
13,100.00	90.58	90.45	7,865.95	-604.15	4,612.28	4,642.21	0.00	0.00	0.00

# ConocoPhillips

## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Chico 4-65 26-25 3AH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

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)
13,200.00	90.58	90.45	7,864.94	-604.93	4,712.28	4,742.03	0.00	0.00	0.00
13,300.00	90.58	90.45	7,863.94	-605.71	4,812.27	4,841.86	0.00	0.00	0.00
13,400.00	90.58	90.45	7,862.93	-606.49	4,912.26	4,941.68	0.00	0.00	0.00
13,500.00	90.58	90.45	7,861.93	-607.27	5,012.25	5,041.50	0.00	0.00	0.00
13,600.00	90.58	90.45	7,860.92	-608.05	5,112.24	5,141.33	0.00	0.00	0.00
13,700.00	90.58	90.45	7,859.92	-608.83	5,212.24	5,241.15	0.00	0.00	0.00
13,800.00	90.58	90.45	7,858.91	-609.61	5,312.23	5,340.97	0.00	0.00	0.00
13,900.00	90.58	90.45	7,857.90	-610.40	5,412.22	5,440.80	0.00	0.00	0.00
14,000.00	90.58	90.45	7,856.90	-611.18	5,512.21	5,540.62	0.00	0.00	0.00
14,100.00	90.58	90.45	7,855.89	-611.96	5,612.20	5,640.44	0.00	0.00	0.00
14,200.00	90.58	90.45	7,854.89	-612.74	5,712.19	5,740.27	0.00	0.00	0.00
14,300.00	90.58	90.45	7,853.88	-613.52	5,812.19	5,840.09	0.00	0.00	0.00
14,400.00	90.58	90.45	7,852.88	-614.30	5,912.18	5,939.91	0.00	0.00	0.00
14,500.00	90.58	90.45	7,851.87	-615.08	6,012.17	6,039.74	0.00	0.00	0.00
14,600.00	90.58	90.45	7,850.87	-615.86	6,112.16	6,139.56	0.00	0.00	0.00
14,700.00	90.58	90.45	7,849.86	-616.64	6,212.15	6,239.38	0.00	0.00	0.00
14,800.00	90.58	90.45	7,848.85	-617.42	6,312.15	6,339.21	0.00	0.00	0.00
14,900.00	90.58	90.45	7,847.85	-618.20	6,412.14	6,439.03	0.00	0.00	0.00
15,000.00	90.58	90.45	7,846.84	-618.98	6,512.13	6,538.85	0.00	0.00	0.00
15,100.00	90.58	90.45	7,845.84	-619.76	6,612.12	6,638.67	0.00	0.00	0.00
15,200.00	90.58	90.45	7,844.83	-620.54	6,712.11	6,738.50	0.00	0.00	0.00
15,300.00	90.58	90.45	7,843.83	-621.32	6,812.11	6,838.32	0.00	0.00	0.00
15,400.00	90.58	90.45	7,842.82	-622.10	6,912.10	6,938.14	0.00	0.00	0.00
15,500.00	90.58	90.45	7,841.82	-622.89	7,012.09	7,037.97	0.00	0.00	0.00
15,600.00	90.58	90.45	7,840.81	-623.67	7,112.08	7,137.79	0.00	0.00	0.00
15,700.00	90.58	90.45	7,839.80	-624.45	7,212.07	7,237.61	0.00	0.00	0.00
15,800.00	90.58	90.45	7,838.80	-625.23	7,312.07	7,337.44	0.00	0.00	0.00
15,900.00	90.58	90.45	7,837.79	-626.01	7,412.06	7,437.26	0.00	0.00	0.00
16,000.00	90.58	90.45	7,836.79	-626.79	7,512.05	7,537.08	0.00	0.00	0.00
16,100.00	90.58	90.45	7,835.78	-627.57	7,612.04	7,636.91	0.00	0.00	0.00
16,200.00	90.58	90.45	7,834.78	-628.35	7,712.03	7,736.73	0.00	0.00	0.00
16,300.00	90.58	90.45	7,833.77	-629.13	7,812.02	7,836.55	0.00	0.00	0.00
16,400.00	90.58	90.45	7,832.77	-629.91	7,912.02	7,936.38	0.00	0.00	0.00
16,500.00	90.58	90.45	7,831.76	-630.69	8,012.01	8,036.20	0.00	0.00	0.00
16,600.00	90.58	90.45	7,830.75	-631.47	8,112.00	8,136.02	0.00	0.00	0.00
16,700.00	90.58	90.45	7,829.75	-632.25	8,211.99	8,235.85	0.00	0.00	0.00
16,800.00	90.58	90.45	7,828.74	-633.03	8,311.98	8,335.67	0.00	0.00	0.00
16,900.00	90.58	90.45	7,827.74	-633.81	8,411.98	8,435.49	0.00	0.00	0.00
17,000.00	90.58	90.45	7,826.73	-634.60	8,511.97	8,535.32	0.00	0.00	0.00
17,100.00	90.58	90.45	7,825.73	-635.38	8,611.96	8,635.14	0.00	0.00	0.00
17,200.00	90.58	90.45	7,824.72	-636.16	8,711.95	8,734.96	0.00	0.00	0.00
17,300.00	90.58	90.45	7,823.72	-636.94	8,811.94	8,834.79	0.00	0.00	0.00
17,400.00	90.58	90.45	7,822.71	-637.72	8,911.94	8,934.61	0.00	0.00	0.00
17,500.00	90.58	90.45	7,821.70	-638.50	9,011.93	9,034.43	0.00	0.00	0.00
17,600.00	90.58	90.45	7,820.70	-639.28	9,111.92	9,134.26	0.00	0.00	0.00
17,700.00	90.58	90.45	7,819.69	-640.06	9,211.91	9,234.08	0.00	0.00	0.00
17,800.00	90.58	90.45	7,818.69	-640.84	9,311.90	9,333.90	0.00	0.00	0.00
17,900.00	90.58	90.45	7,817.68	-641.62	9,411.90	9,433.73	0.00	0.00	0.00
18,000.00	90.58	90.45	7,816.68	-642.40	9,511.89	9,533.55	0.00	0.00	0.00
18,100.00	90.58	90.45	7,815.67	-643.18	9,611.88	9,633.37	0.00	0.00	0.00
18,166.72	90.58	90.45	7,815.00	-643.70	9,678.59	9,699.98	0.00	0.00	0.00
BHL: 2799' FNL, 325' FEL - 5-1/2" Casing									



# ConocoPhillips

## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Chico 4-65 26-25 3AH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	25' RKB @ 5816.30ft (25' RKB)
<b>Site:</b>	Chico	<b>North Reference:</b>	True
<b>Well:</b>	Chico 4-65 26-25 3AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Chico 4-65 26-25 3AH		
<b>Design:</b>	Design A		

### Design Targets

#### Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Chico 4-65 26-25 3AH - plan hits target center - Point	0.00	0.00	7,815.00	-643.70	9,678.60	1,671,652.522	3,252,020.929	39° 40' 26.670 N	104° 36' 16.790 W
Chico 4-65 26-25 3AH - plan hits target center - Point	0.00	0.00	7,913.00	-567.62	-66.46	1,671,636.247	3,242,275.741	39° 40' 27.440 N	104° 38' 21.420 W

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,236.00	2,236.00	9-5/8" Casing	9-5/8	12-1/4
18,166.72	7,815.00	5-1/2" Casing	5-1/2	8-1/2

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,841.00	1,841.00	Fox Hills Top		0.00	
2,036.00	2,036.00	Pierre Top - Fox Hills Base		0.00	
2,236.00	2,236.00	Surface Casing		0.00	
8,022.54	7,789.00	Niobrara Top		0.00	
8,305.31	7,903.00	C Chalk Top		0.00	

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
100.00	100.00	0.00	0.00	SHL: 2230' FNL, 525' FWL
7,258.85	7,125.05	-333.15	-586.68	KOP: 2563' FNL, 62' FEL
8,420.88	7,913.00	-567.62	-66.46	BPI: 2799' FNL, 460' FWL
18,166.72	7,815.00	-643.70	9,678.59	BHL: 2799' FNL, 325' FEL