



# ConocoPhillips

## Arapahoe County, Colorado

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

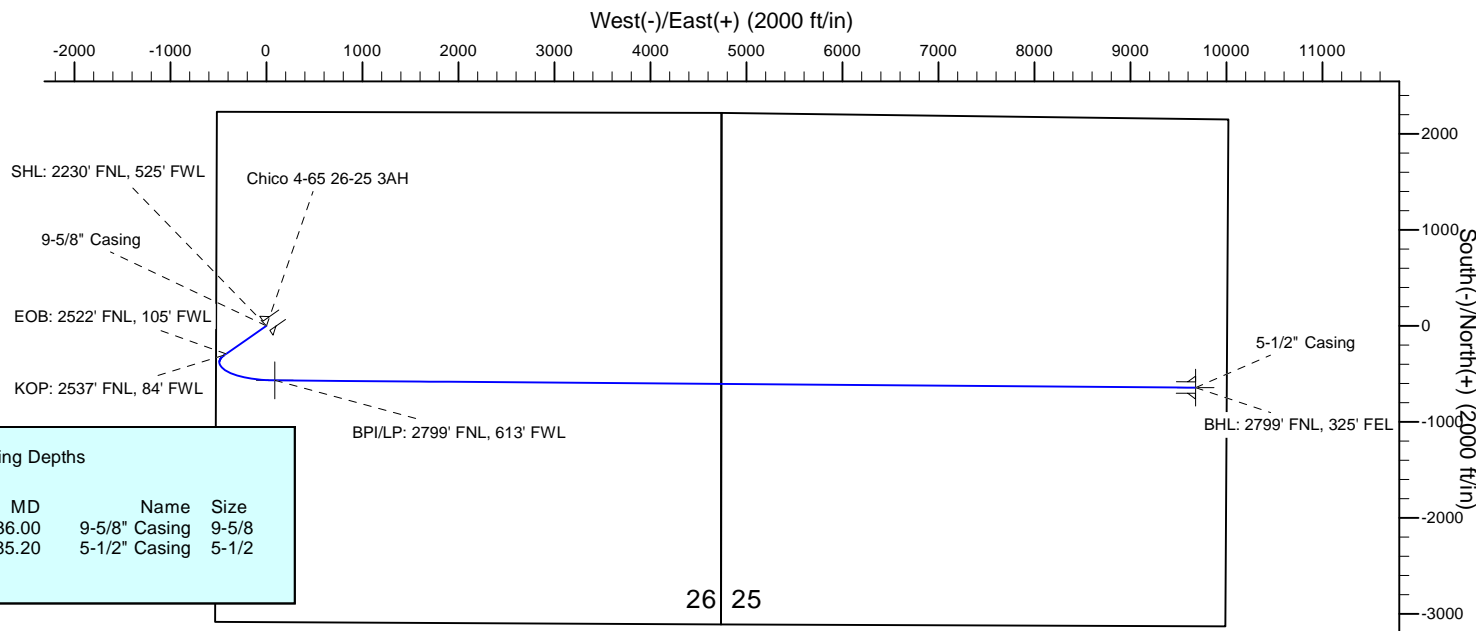
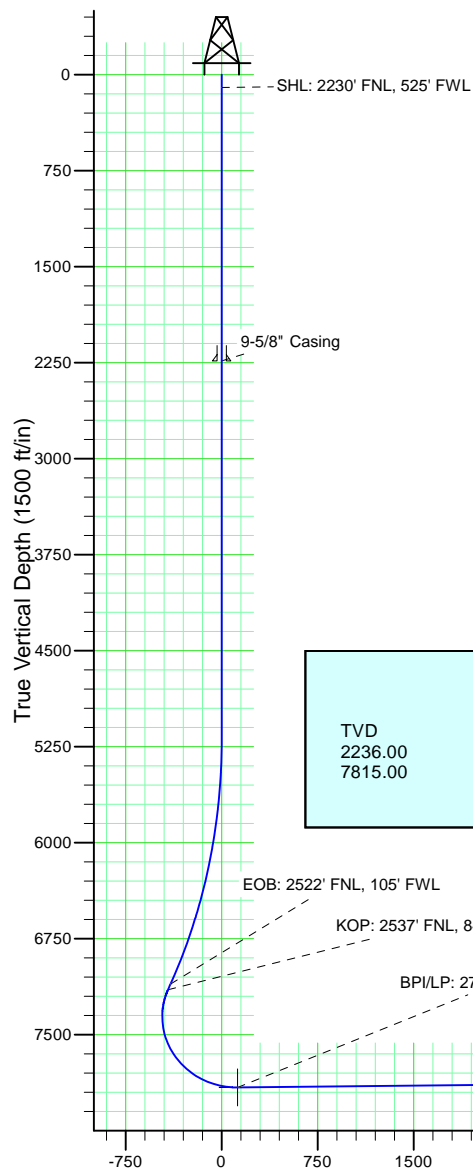
### Design B

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
5195.40	0.00	0.00	5195.40	0.00	0.00	0.00	0.00
7195.10	30.00	235.17	7105.00	-292.22	-419.93	1.50	-399.61
7245.41	30.00	235.17	7148.57	-306.58	-440.57	0.00	-419.26
8391.82	90.59	90.45	7913.00	-568.63	86.01	10.00	123.56
17985.20	90.59	90.45	7815.00	-643.69	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	17985.20	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' 27.430 N	104° 38' 19.470 W

Vertical Section at 93.80° (1500 ft/in)

# **ConocoPhillips RBU Gold Data**

**Niobrara Central Zone**

**Chico**

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

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

**Plan: Design B**

## **Standard Planning Report**

**26 April, 2018**



# ConocoPhillips

## Arapahoe County, Colorado

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

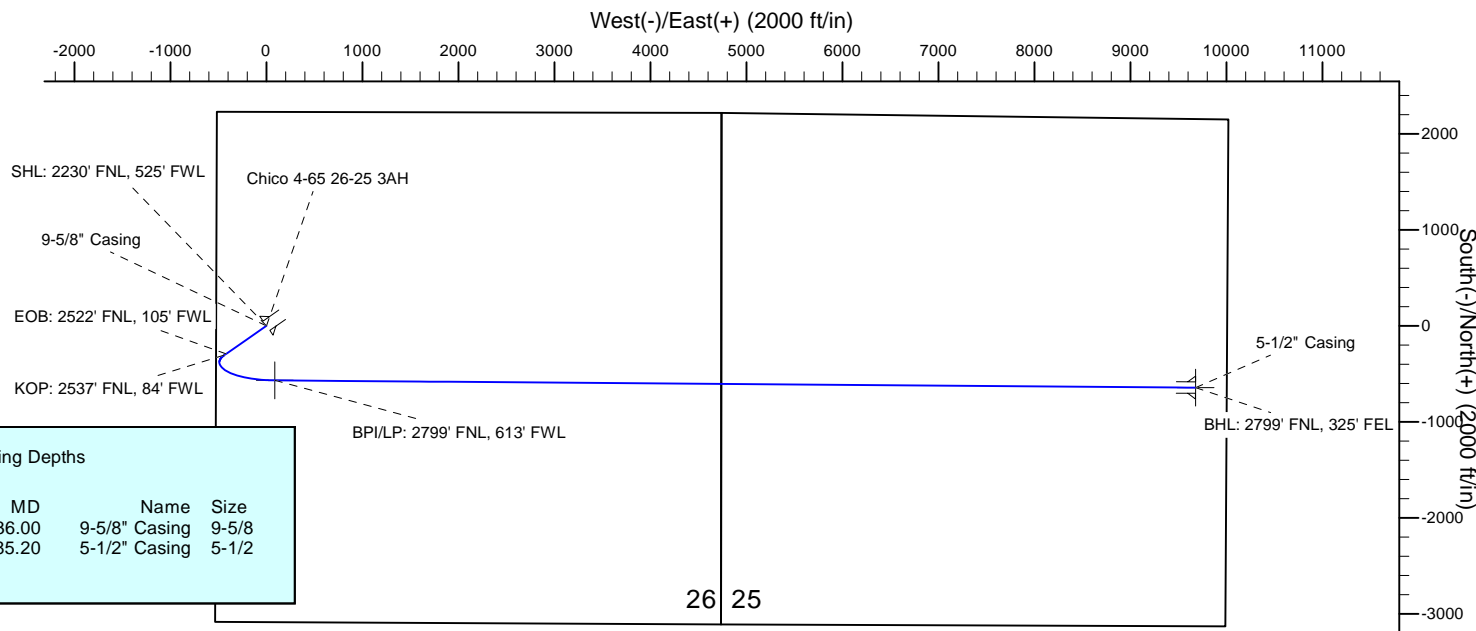
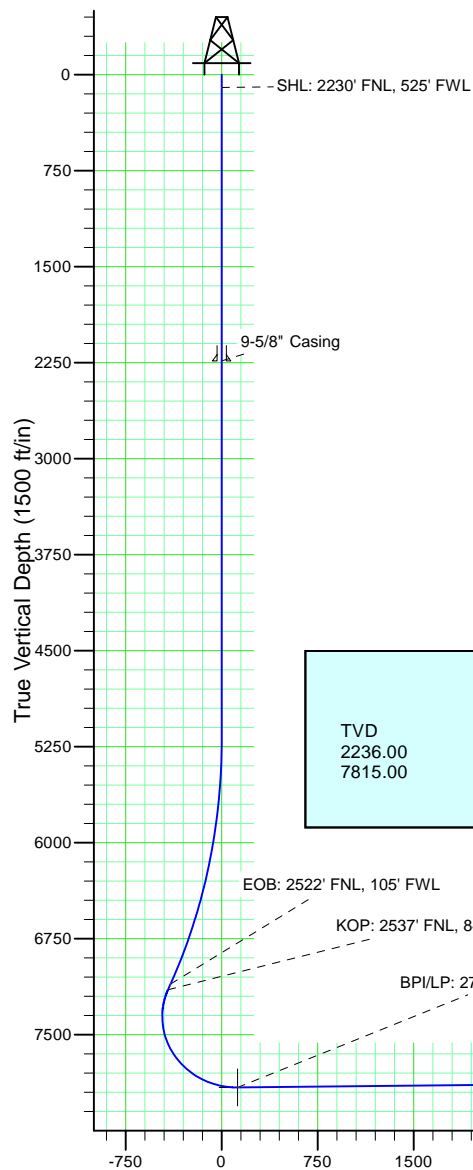
### Design B

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
5195.40	0.00	0.00	5195.40	0.00	0.00	0.00	0.00
7195.10	30.00	235.17	7105.00	-292.22	-419.93	1.50	-399.61
7245.41	30.00	235.17	7148.57	-306.58	-440.57	0.00	-419.26
8391.82	90.59	90.45	7913.00	-568.63	86.01	10.00	123.56
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2236.00	2236.00	9-5/8\" Casing	9-5/8
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#### 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' 27.430 N	104° 38' 19.470 W

Vertical Section at 93.80° (1500 ft/in)

# 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 B		

<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:		Northing:	1,674,430.510 usft	Latitude:	39° 40' 55.099 N
From:	Lat/Long	Easting:	3,241,798.168 usft	Longitude:	104° 38' 27.190 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.54 °

Well	Chico 4-65 26-25 3AH					
Well Position	+N-S	-2,231.08 ft	Northing:	1,672,204.456 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:	5,791.30 ft	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	12/1/2018	8.14	66.28	51,840.48980104

Design	Design B				
Audit Notes:					
Version:	0	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	93.80	

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/26/2018			
<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 B (Chico 4-65 26-25 3AH)Gyro-BM-MS		
			Gyro - bat/mem drop m/s		
2	2,236.00	5,195.40	Design B (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
3	5,195.40	7,195.10	Design B (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
4	7,195.10	7,245.41	Design B (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
5	7,245.41	8,391.82	Design B (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
6	8,391.82	17,985.20	Design B (Chico 4-65 26-25 3AH)MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		

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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 B		

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	
5,195.40	0.00	0.00	5,195.40	0.00	0.00	0.00	0.00	0.00	0.00	
7,195.10	30.00	235.17	7,105.00	-292.22	-419.93	1.50	1.50	0.00	235.17	
7,245.41	30.00	235.17	7,148.57	-306.58	-440.57	0.00	0.00	0.00	0.00	
8,391.83	90.59	90.45	7,913.00	-568.63	86.01	10.00	5.29	-12.62	-140.55	Chico 4-65 26-25 3,
17,985.21	90.59	90.45	7,815.00	-643.69	9,678.60	0.00	0.00	0.00	0.00	Chico 4-65 26-25 3,

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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 B		

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
<b>SHL: 2230' FNL, 525' FWL</b>									
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
<b>Fox Hills Top</b>									
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
<b>Pierre Top - Fox Hills Base</b>									
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
<b>Surface Casing - 9-5/8" Casing</b>									
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 B		

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
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
5,195.40	0.00	0.00	5,195.40	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.07	235.17	5,200.00	0.00	0.00	0.00	1.50	1.50	0.00
5,300.00	1.57	235.17	5,299.99	-0.82	-1.18	-1.12	1.50	1.50	0.00
5,400.00	3.07	235.17	5,399.90	-3.13	-4.50	-4.28	1.50	1.50	0.00
5,500.00	4.57	235.17	5,499.68	-6.93	-9.96	-9.48	1.50	1.50	0.00
5,600.00	6.07	235.17	5,599.24	-12.23	-17.57	-16.72	1.50	1.50	0.00
5,700.00	7.57	235.17	5,698.53	-19.01	-27.32	-26.00	1.50	1.50	0.00
5,800.00	9.07	235.17	5,797.48	-27.27	-39.19	-37.30	1.50	1.50	0.00
5,900.00	10.57	235.17	5,896.01	-37.01	-53.19	-50.62	1.50	1.50	0.00
6,000.00	12.07	235.17	5,994.06	-48.22	-69.30	-65.95	1.50	1.50	0.00
6,100.00	13.57	235.17	6,091.57	-60.90	-87.51	-83.28	1.50	1.50	0.00
6,200.00	15.07	235.17	6,188.46	-75.02	-107.81	-102.60	1.50	1.50	0.00
6,300.00	16.57	235.17	6,284.67	-90.59	-130.19	-123.89	1.50	1.50	0.00
6,400.00	18.07	235.17	6,380.13	-107.60	-154.62	-147.14	1.50	1.50	0.00
6,500.00	19.57	235.17	6,474.78	-126.02	-181.10	-172.34	1.50	1.50	0.00
6,600.00	21.07	235.17	6,568.56	-145.86	-209.60	-199.46	1.50	1.50	0.00
6,700.00	22.57	235.17	6,661.39	-167.08	-240.11	-228.49	1.50	1.50	0.00
6,800.00	24.07	235.17	6,753.22	-189.69	-272.60	-259.41	1.50	1.50	0.00
6,900.00	25.57	235.17	6,843.98	-213.67	-307.05	-292.20	1.50	1.50	0.00
7,000.00	27.07	235.17	6,933.61	-238.99	-343.44	-326.83	1.50	1.50	0.00
7,100.00	28.57	235.17	7,022.05	-265.65	-381.75	-363.28	1.50	1.50	0.00
7,195.10	30.00	235.17	7,105.00	-292.22	-419.93	-399.61	1.50	1.50	0.00
<b>EOB: 2522' FNL, 105' FWL</b>									
7,200.00	30.00	235.17	7,109.24	-293.62	-421.94	-401.52	0.00	0.00	0.00
7,245.41	30.00	235.17	7,148.57	-306.58	-440.57	-419.26	0.00	0.00	0.00
<b>KOP: 2537' FNL, 84' FWL</b>									
7,250.00	29.64	234.58	7,152.55	-307.90	-442.44	-421.03	9.99	-7.69	-12.84
7,300.00	25.99	227.24	7,196.78	-322.51	-460.57	-438.15	10.00	-7.30	-14.68
7,350.00	22.82	217.86	7,242.33	-337.61	-474.57	-451.12	10.00	-6.35	-18.75
7,400.00	20.34	206.01	7,288.84	-353.09	-484.34	-459.84	10.00	-4.95	-23.70
7,450.00	18.85	191.74	7,335.97	-368.82	-489.80	-464.25	10.00	-2.99	-28.54
7,500.00	18.58	176.14	7,383.36	-384.68	-490.91	-464.30	10.00	-0.55	-31.21
7,550.00	19.57	161.10	7,430.64	-400.56	-487.66	-460.00	10.00	1.99	-30.08
7,600.00	21.66	148.16	7,477.46	-416.33	-480.07	-451.38	10.00	4.18	-25.88
7,650.00	24.57	137.77	7,523.46	-431.88	-468.21	-438.52	10.00	5.82	-20.79
7,700.00	28.04	129.62	7,568.29	-447.08	-452.16	-421.49	10.00	6.94	-16.29
7,750.00	31.89	123.22	7,611.61	-461.82	-432.04	-400.44	10.00	7.70	-12.80
7,800.00	36.00	118.11	7,653.09	-475.99	-408.02	-375.53	10.00	8.21	-10.23
7,850.00	40.28	113.93	7,692.41	-489.47	-380.26	-346.94	10.00	8.57	-8.36
7,900.00	44.69	110.44	7,729.28	-502.18	-348.99	-314.90	10.00	8.82	-6.98
7,950.00	49.20	107.46	7,763.41	-514.00	-314.44	-279.64	10.00	9.00	-5.96
7,990.72	52.91	105.32	7,789.00	-522.92	-284.07	-248.74	10.00	9.13	-5.26
<b>Niobrara Top</b>									
8,000.00	53.76	104.86	7,794.54	-524.85	-276.88	-241.44	10.00	9.18	-4.94
8,050.00	58.38	102.55	7,822.44	-534.66	-236.58	-200.58	10.00	9.24	-4.62
8,100.00	63.04	100.46	7,846.90	-543.33	-193.86	-157.38	10.00	9.31	-4.18
8,150.00	67.72	98.53	7,867.73	-550.81	-149.04	-112.16	10.00	9.37	-3.85
8,200.00	72.43	96.73	7,884.76	-557.04	-102.46	-65.27	10.00	9.41	-3.60

# 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 B		

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)
8,250.00	77.15	95.03	7,897.88	-561.98	-54.48	-17.07	10.00	9.44	-3.41
8,275.38	79.55	94.19	7,903.00	-563.97	-29.71	7.78	10.00	9.46	-3.31
<b>C Chalk Top</b>									
8,300.00	81.88	93.38	7,906.97	-565.58	-5.47	32.08	10.00	9.47	-3.26
8,350.00	86.62	91.78	7,911.98	-567.81	44.22	81.80	10.00	9.48	-3.21
8,391.82	90.58	90.45	7,913.00	-568.63	86.01	123.55	10.00	9.48	-3.18
<b>BPI/LP: 2799' FNL, 613' FWL</b>									
8,400.00	90.59	90.45	7,912.92	-568.69	94.19	131.72	0.01	0.01	0.00
8,500.00	90.59	90.45	7,911.90	-569.47	194.18	231.54	0.00	0.00	0.00
8,600.00	90.59	90.45	7,910.87	-570.25	294.17	331.36	0.00	0.00	0.00
8,700.00	90.59	90.45	7,909.85	-571.04	394.16	431.19	0.00	0.00	0.00
8,800.00	90.59	90.45	7,908.83	-571.82	494.15	531.01	0.00	0.00	0.00
8,900.00	90.59	90.45	7,907.81	-572.60	594.14	630.83	0.00	0.00	0.00
9,000.00	90.59	90.45	7,906.79	-573.38	694.14	730.66	0.00	0.00	0.00
9,100.00	90.59	90.45	7,905.77	-574.17	794.13	830.48	0.00	0.00	0.00
9,200.00	90.59	90.45	7,904.74	-574.95	894.12	930.30	0.00	0.00	0.00
9,300.00	90.59	90.45	7,903.72	-575.73	994.11	1,030.13	0.00	0.00	0.00
9,400.00	90.59	90.45	7,902.70	-576.51	1,094.10	1,129.95	0.00	0.00	0.00
9,500.00	90.59	90.45	7,901.68	-577.30	1,194.09	1,229.77	0.00	0.00	0.00
9,600.00	90.59	90.45	7,900.66	-578.08	1,294.09	1,329.60	0.00	0.00	0.00
9,700.00	90.59	90.45	7,899.64	-578.86	1,394.08	1,429.42	0.00	0.00	0.00
9,800.00	90.59	90.45	7,898.62	-579.64	1,494.07	1,529.24	0.00	0.00	0.00
9,900.00	90.59	90.45	7,897.59	-580.43	1,594.06	1,629.06	0.00	0.00	0.00
10,000.00	90.59	90.45	7,896.57	-581.21	1,694.05	1,728.89	0.00	0.00	0.00
10,100.00	90.59	90.45	7,895.55	-581.99	1,794.04	1,828.71	0.00	0.00	0.00
10,200.00	90.59	90.45	7,894.53	-582.77	1,894.04	1,928.53	0.00	0.00	0.00
10,300.00	90.59	90.45	7,893.51	-583.56	1,994.03	2,028.36	0.00	0.00	0.00
10,400.00	90.59	90.45	7,892.49	-584.34	2,094.02	2,128.18	0.00	0.00	0.00
10,500.00	90.59	90.45	7,891.46	-585.12	2,194.01	2,228.00	0.00	0.00	0.00
10,600.00	90.59	90.45	7,890.44	-585.90	2,294.00	2,327.83	0.00	0.00	0.00
10,700.00	90.59	90.45	7,889.42	-586.69	2,393.99	2,427.65	0.00	0.00	0.00
10,800.00	90.59	90.45	7,888.40	-587.47	2,493.99	2,527.47	0.00	0.00	0.00
10,900.00	90.59	90.45	7,887.38	-588.25	2,593.98	2,627.30	0.00	0.00	0.00
11,000.00	90.59	90.45	7,886.36	-589.03	2,693.97	2,727.12	0.00	0.00	0.00
11,100.00	90.59	90.45	7,885.34	-589.82	2,793.96	2,826.94	0.00	0.00	0.00
11,200.00	90.59	90.45	7,884.31	-590.60	2,893.95	2,926.77	0.00	0.00	0.00
11,300.00	90.59	90.45	7,883.29	-591.38	2,993.95	3,026.59	0.00	0.00	0.00
11,400.00	90.59	90.45	7,882.27	-592.16	3,093.94	3,126.41	0.00	0.00	0.00
11,500.00	90.59	90.45	7,881.25	-592.95	3,193.93	3,226.24	0.00	0.00	0.00
11,600.00	90.59	90.45	7,880.23	-593.73	3,293.92	3,326.06	0.00	0.00	0.00
11,700.00	90.59	90.45	7,879.21	-594.51	3,393.91	3,425.88	0.00	0.00	0.00
11,800.00	90.59	90.45	7,878.18	-595.29	3,493.90	3,525.71	0.00	0.00	0.00
11,900.00	90.59	90.45	7,877.16	-596.08	3,593.90	3,625.53	0.00	0.00	0.00
12,000.00	90.59	90.45	7,876.14	-596.86	3,693.89	3,725.35	0.00	0.00	0.00
12,100.00	90.59	90.45	7,875.12	-597.64	3,793.88	3,825.18	0.00	0.00	0.00
12,200.00	90.59	90.45	7,874.10	-598.42	3,893.87	3,925.00	0.00	0.00	0.00
12,300.00	90.59	90.45	7,873.08	-599.21	3,993.86	4,024.82	0.00	0.00	0.00
12,400.00	90.59	90.45	7,872.06	-599.99	4,093.85	4,124.65	0.00	0.00	0.00
12,500.00	90.59	90.45	7,871.03	-600.77	4,193.85	4,224.47	0.00	0.00	0.00
12,600.00	90.59	90.45	7,870.01	-601.55	4,293.84	4,324.29	0.00	0.00	0.00
12,700.00	90.59	90.45	7,868.99	-602.34	4,393.83	4,424.12	0.00	0.00	0.00
12,800.00	90.59	90.45	7,867.97	-603.12	4,493.82	4,523.94	0.00	0.00	0.00
12,900.00	90.59	90.45	7,866.95	-603.90	4,593.81	4,623.76	0.00	0.00	0.00
13,000.00	90.59	90.45	7,865.93	-604.68	4,693.80	4,723.59	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 B		

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)	
13,100.00	90.59	90.45	7,864.90	-605.47	4,793.80	4,823.41	0.00	0.00	0.00	
13,200.00	90.59	90.45	7,863.88	-606.25	4,893.79	4,923.23	0.00	0.00	0.00	
13,300.00	90.59	90.45	7,862.86	-607.03	4,993.78	5,023.05	0.00	0.00	0.00	
13,400.00	90.59	90.45	7,861.84	-607.81	5,093.77	5,122.88	0.00	0.00	0.00	
13,500.00	90.59	90.45	7,860.82	-608.60	5,193.76	5,222.70	0.00	0.00	0.00	
13,600.00	90.59	90.45	7,859.80	-609.38	5,293.75	5,322.52	0.00	0.00	0.00	
13,700.00	90.59	90.45	7,858.78	-610.16	5,393.75	5,422.35	0.00	0.00	0.00	
13,800.00	90.59	90.45	7,857.75	-610.94	5,493.74	5,522.17	0.00	0.00	0.00	
13,900.00	90.59	90.45	7,856.73	-611.73	5,593.73	5,621.99	0.00	0.00	0.00	
14,000.00	90.59	90.45	7,855.71	-612.51	5,693.72	5,721.82	0.00	0.00	0.00	
14,100.00	90.59	90.45	7,854.69	-613.29	5,793.71	5,821.64	0.00	0.00	0.00	
14,200.00	90.59	90.45	7,853.67	-614.08	5,893.71	5,921.46	0.00	0.00	0.00	
14,300.00	90.59	90.45	7,852.65	-614.86	5,993.70	6,021.29	0.00	0.00	0.00	
14,400.00	90.59	90.45	7,851.62	-615.64	6,093.69	6,121.11	0.00	0.00	0.00	
14,500.00	90.59	90.45	7,850.60	-616.42	6,193.68	6,220.93	0.00	0.00	0.00	
14,600.00	90.59	90.45	7,849.58	-617.21	6,293.67	6,320.76	0.00	0.00	0.00	
14,700.00	90.59	90.45	7,848.56	-617.99	6,393.66	6,420.58	0.00	0.00	0.00	
14,800.00	90.59	90.45	7,847.54	-618.77	6,493.66	6,520.40	0.00	0.00	0.00	
14,900.00	90.59	90.45	7,846.52	-619.55	6,593.65	6,620.23	0.00	0.00	0.00	
15,000.00	90.59	90.45	7,845.50	-620.34	6,693.64	6,720.05	0.00	0.00	0.00	
15,100.00	90.59	90.45	7,844.47	-621.12	6,793.63	6,819.87	0.00	0.00	0.00	
15,200.00	90.59	90.45	7,843.45	-621.90	6,893.62	6,919.70	0.00	0.00	0.00	
15,300.00	90.59	90.45	7,842.43	-622.68	6,993.61	7,019.52	0.00	0.00	0.00	
15,400.00	90.59	90.45	7,841.41	-623.47	7,093.61	7,119.34	0.00	0.00	0.00	
15,500.00	90.59	90.45	7,840.39	-624.25	7,193.60	7,219.17	0.00	0.00	0.00	
15,600.00	90.59	90.45	7,839.37	-625.03	7,293.59	7,318.99	0.00	0.00	0.00	
15,700.00	90.59	90.45	7,838.34	-625.81	7,393.58	7,418.81	0.00	0.00	0.00	
15,800.00	90.59	90.45	7,837.32	-626.60	7,493.57	7,518.64	0.00	0.00	0.00	
15,900.00	90.59	90.45	7,836.30	-627.38	7,593.56	7,618.46	0.00	0.00	0.00	
16,000.00	90.59	90.45	7,835.28	-628.16	7,693.56	7,718.28	0.00	0.00	0.00	
16,100.00	90.59	90.45	7,834.26	-628.94	7,793.55	7,818.11	0.00	0.00	0.00	
16,200.00	90.59	90.45	7,833.24	-629.73	7,893.54	7,917.93	0.00	0.00	0.00	
16,300.00	90.59	90.45	7,832.22	-630.51	7,993.53	8,017.75	0.00	0.00	0.00	
16,400.00	90.59	90.45	7,831.19	-631.29	8,093.52	8,117.58	0.00	0.00	0.00	
16,500.00	90.59	90.45	7,830.17	-632.07	8,193.51	8,217.40	0.00	0.00	0.00	
16,600.00	90.59	90.45	7,829.15	-632.86	8,293.51	8,317.22	0.00	0.00	0.00	
16,700.00	90.59	90.45	7,828.13	-633.64	8,393.50	8,417.05	0.00	0.00	0.00	
16,800.00	90.59	90.45	7,827.11	-634.42	8,493.49	8,516.87	0.00	0.00	0.00	
16,900.00	90.59	90.45	7,826.09	-635.20	8,593.48	8,616.69	0.00	0.00	0.00	
17,000.00	90.59	90.45	7,825.06	-635.99	8,693.47	8,716.51	0.00	0.00	0.00	
17,100.00	90.59	90.45	7,824.04	-636.77	8,793.47	8,816.34	0.00	0.00	0.00	
17,200.00	90.59	90.45	7,823.02	-637.55	8,893.46	8,916.16	0.00	0.00	0.00	
17,300.00	90.59	90.45	7,822.00	-638.33	8,993.45	9,015.98	0.00	0.00	0.00	
17,400.00	90.59	90.45	7,820.98	-639.12	9,093.44	9,115.81	0.00	0.00	0.00	
17,500.00	90.59	90.45	7,819.96	-639.90	9,193.43	9,215.63	0.00	0.00	0.00	
17,600.00	90.59	90.45	7,818.94	-640.68	9,293.42	9,315.45	0.00	0.00	0.00	
17,700.00	90.59	90.45	7,817.91	-641.46	9,393.42	9,415.28	0.00	0.00	0.00	
17,800.00	90.59	90.45	7,816.89	-642.25	9,493.41	9,515.10	0.00	0.00	0.00	
17,900.00	90.59	90.45	7,815.87	-643.03	9,593.40	9,614.92	0.00	0.00	0.00	
17,985.20	90.59	90.45	7,815.00	-643.69	9,678.59	9,699.97	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 B		

### 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	-643.69	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	-568.63	86.01	1,671,636.680	3,242,428.215	39° 40' 27.430 N	104° 38' 19.470 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
17,985.20	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	
7,990.72	7,789.00	Niobrara Top		0.00	
8,275.38	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
7,195.10	7,105.00	-292.22	-419.93	EOB: 2522' FNL, 105' FWL
7,245.41	7,148.57	-306.58	-440.57	KOP: 2537' FNL, 84' FWL
8,391.82	7,913.00	-568.63	86.01	BPI/LP: 2799' FNL, 613' FWL
17,985.20	7,815.00	-643.69	9,678.59	BHL: 2799' FNL, 325' FEL