

# **ConocoPhillips RBU Gold Data**

**Niobrara Central Zone**

**Prosper Farms**

**Prosper Farms 4-65 11-12 3DH**

**Prosper Farms 4-65 11-12 3DH**

**Plan: Design B**

## **Standard Planning Report**

**30 April, 2018**



# ConocoPhillips

## Arapahoe County, Colorado

### Prosper Farms 4-65 11-12 3DH

#### Design B

#### Casing Depths

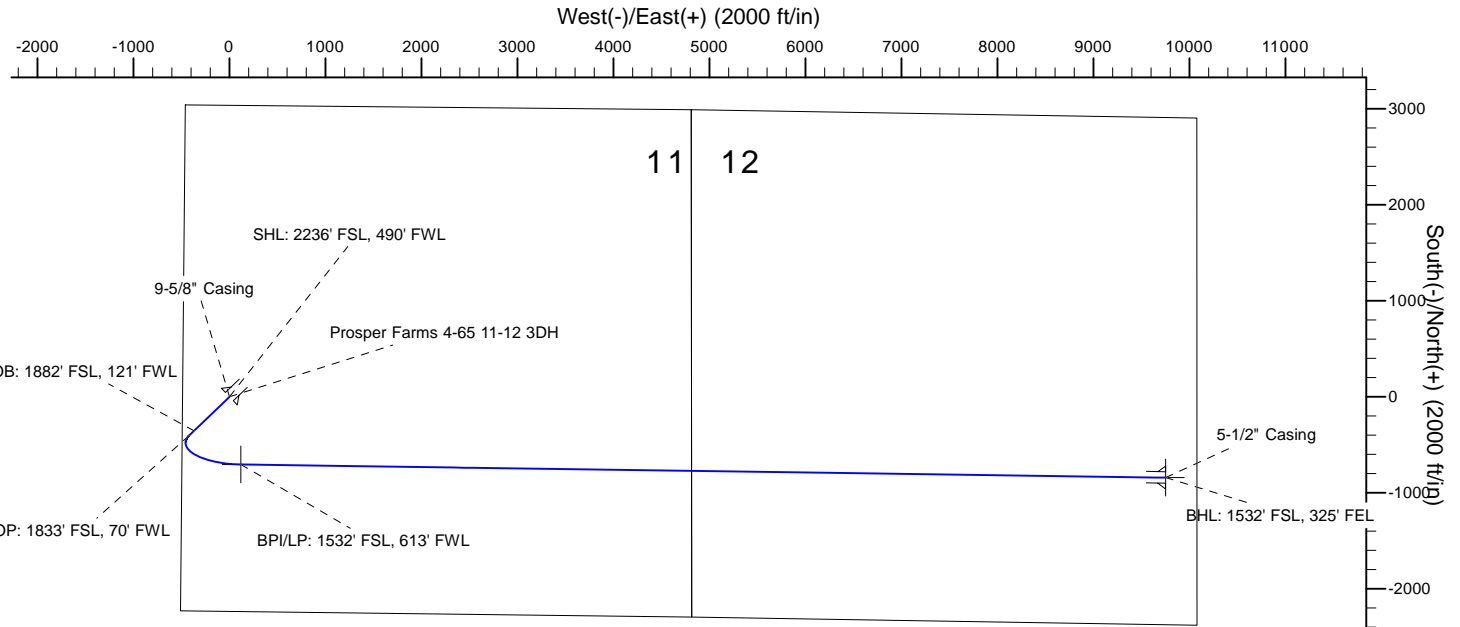
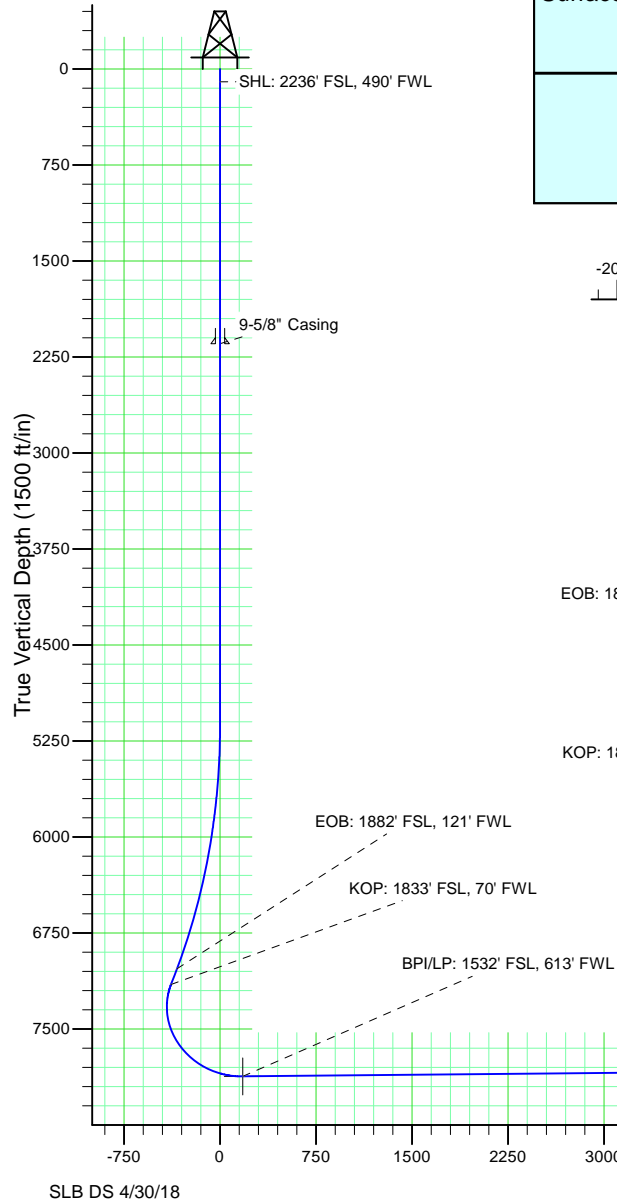
TVD	MD	Name	Size
2147.00	2147.00	9-5/8" Casing	9-5/8
7777.00	18011.66	5-1/2" Casing	5-1/2

Ground Level: 5668.20  
Surface Location Latitude: 39° 43' 2.200 N  
Surface Location Longitude: 104° 38' 20.740 W  
North Reference: True  
27' RKB @ 5695.20ft (27' 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
5120.90	0.00	0.00	5120.90	0.00	0.00	0.00	0.00
7120.94	30.00	226.19	7030.80	-354.26	-369.33	1.50	-337.49
7261.19	30.00	226.19	7152.26	-402.80	-419.94	0.00	-383.73
8374.86	90.56	90.81	7871.00	-705.25	116.44	10.00	176.67
18011.66	90.56	90.81	7777.00	-842.01	9751.81	0.00	9788.10



#### Wellbore Targets

Name	TVD	Latitude	Longitude
Prosper Farms 4-65 11-12 3DH BHL	7777.00	39° 42' 53.860 N	104° 36' 15.950 W
Prosper Farms 4-65 11-12 3DH BPI	7871.00	39° 42' 55.230 N	104° 38' 19.250 W

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## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Prosper Farms 4-65 11-12 3DH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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		Prosper Farms			
Site Position: From: Position Uncertainty:		Northing:	1,695,525.074 usft	Latitude:	39° 44' 23.579 N
	Lat/Long	Easting:	3,241,656.328 usft	Longitude:	104° 38' 26.452 W
	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.54

Well	Prosper Farms 4-65 11-12 3DH					
Well Position	+N-S	-8,234.39 ft	Northing:	1,687,295.302 usft	Latitude:	39° 43' 2.200 N
	+E-W	446.32 ft	Easting:	3,242,180.515 usft	Longitude:	104° 38' 20.740 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	5,668.20 ft	Ground Level:	5,668.20 ft

<b>Wellbore</b>	Prosper Farms 4-65 11-12 3DH				
<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	66.31	51,861.39510428

<b>Design</b>	Design B				
<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	94.93	

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/30/2018			
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	2,147.00	Design B (Prosper Farms 4-65 1' Gyro-BM-MS		
			Gyro - bat/mem drop m/s		
2	2,147.00	5,120.90	Design B (Prosper Farms 4-65 1' MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
3	5,120.90	7,120.94	Design B (Prosper Farms 4-65 1' MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
4	7,120.94	7,261.19	Design B (Prosper Farms 4-65 1' MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
5	7,261.19	8,374.86	Design B (Prosper Farms 4-65 1' MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		
6	8,374.86	18,011.66	Design B (Prosper Farms 4-65 1' MWD+IFR_No SAG		
			MWD + IFR (No SAG) corre		

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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	
5,120.90	0.00	0.00	5,120.90	0.00	0.00	0.00	0.00	0.00	0.00	
7,120.94	30.00	226.19	7,030.80	-354.26	-369.33	1.50	1.50	0.00	226.19	
7,261.19	30.00	226.19	7,152.26	-402.80	-419.94	0.00	0.00	0.00	0.00	
8,374.86	90.56	90.81	7,871.00	-705.25	116.44	10.00	5.44	-12.16	-131.04	Prosper Farms 4-65
18,011.66	90.56	90.81	7,777.00	-842.01	9,751.81	0.00	0.00	0.00	0.00	Prosper Farms 4-65

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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: 2236' FSL, 490' 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
1,744.00	0.00	0.00	1,744.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Fox Hills Top</b>									
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
1,947.00	0.00	0.00	1,947.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Pierre Top - Fox Hills Base</b>									
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
2,147.00	0.00	0.00	2,147.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Surface Casing - 9-5/8" Casing</b>									
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

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## Planning Report

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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
5,120.90	0.00	0.00	5,120.90	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	1.19	226.19	5,199.99	-0.57	-0.59	-0.54	1.50	1.50	0.00
5,300.00	2.69	226.19	5,299.93	-2.91	-3.03	-2.77	1.50	1.50	0.00
5,400.00	4.19	226.19	5,399.75	-7.06	-7.36	-6.72	1.50	1.50	0.00
5,500.00	5.69	226.19	5,499.38	-13.01	-13.57	-12.40	1.50	1.50	0.00
5,600.00	7.19	226.19	5,598.74	-20.77	-21.66	-19.79	1.50	1.50	0.00
5,700.00	8.69	226.19	5,697.78	-30.33	-31.62	-28.89	1.50	1.50	0.00
5,800.00	10.19	226.19	5,796.43	-41.68	-43.45	-39.71	1.50	1.50	0.00
5,900.00	11.69	226.19	5,894.61	-54.81	-57.14	-52.22	1.50	1.50	0.00
6,000.00	13.19	226.19	5,992.26	-69.72	-72.68	-66.42	1.50	1.50	0.00
6,100.00	14.69	226.19	6,089.31	-86.39	-90.07	-82.30	1.50	1.50	0.00
6,200.00	16.19	226.19	6,185.70	-104.81	-109.27	-99.85	1.50	1.50	0.00
6,300.00	17.69	226.19	6,281.36	-124.98	-130.30	-119.06	1.50	1.50	0.00
6,400.00	19.19	226.19	6,376.23	-146.87	-153.12	-139.92	1.50	1.50	0.00
6,500.00	20.69	226.19	6,470.23	-170.47	-177.73	-162.40	1.50	1.50	0.00
6,600.00	22.19	226.19	6,563.31	-195.77	-204.10	-186.50	1.50	1.50	0.00
6,700.00	23.69	226.19	6,655.40	-222.75	-232.22	-212.20	1.50	1.50	0.00
6,800.00	25.19	226.19	6,746.44	-251.38	-262.08	-239.48	1.50	1.50	0.00
6,900.00	26.69	226.19	6,836.37	-281.66	-293.64	-268.32	1.50	1.50	0.00
7,000.00	28.19	226.19	6,925.12	-313.55	-326.89	-298.71	1.50	1.50	0.00
7,100.00	29.69	226.19	7,012.63	-347.05	-361.81	-330.61	1.50	1.50	0.00
7,120.94	30.00	226.19	7,030.79	-354.26	-369.33	-337.49	1.50	1.50	0.00
<b>EOB: 1882' FSL, 121' FWL</b>									
7,200.00	30.00	226.19	7,099.26	-381.62	-397.86	-363.56	0.00	0.00	0.00
7,261.19	30.00	226.19	7,152.25	-402.80	-419.94	-383.73	0.00	0.00	0.00
<b>KOP: 1833' FSL, 70' FWL</b>									
7,300.00	27.59	219.87	7,186.27	-416.42	-432.71	-395.28	10.00	-6.20	-16.30
7,350.00	25.00	210.20	7,231.11	-434.45	-445.45	-406.43	10.00	-5.19	-19.33
7,400.00	23.15	198.79	7,276.79	-452.90	-453.94	-413.29	10.00	-3.70	-22.82
7,450.00	22.23	186.02	7,322.94	-471.62	-458.10	-415.83	10.00	-1.83	-25.54
7,500.00	22.36	172.82	7,369.24	-490.48	-457.90	-414.01	10.00	0.26	-26.40
7,550.00	23.52	160.32	7,415.31	-509.32	-453.35	-407.86	10.00	2.33	-25.00
7,600.00	25.58	149.33	7,460.81	-528.01	-444.48	-397.41	10.00	4.11	-21.99
7,650.00	28.33	140.09	7,505.39	-546.41	-431.35	-382.75	10.00	5.50	-18.46
7,700.00	31.59	132.50	7,548.72	-564.37	-414.08	-363.99	10.00	6.53	-15.20
7,750.00	35.23	126.25	7,590.46	-581.75	-392.78	-341.28	10.00	7.27	-12.49
7,800.00	39.13	121.07	7,630.30	-598.43	-367.62	-314.78	10.00	7.80	-10.36
7,850.00	43.23	116.71	7,667.94	-614.28	-338.79	-284.69	10.00	8.19	-8.72
7,862.55	44.28	115.72	7,677.00	-618.11	-331.01	-276.61	10.00	8.38	-7.89
<b>Niobrara Top</b>									
7,900.00	47.46	112.98	7,703.08	-629.18	-306.52	-251.26	10.00	8.51	-7.33
7,950.00	51.81	109.72	7,735.46	-643.01	-271.04	-214.72	10.00	8.69	-6.51
8,000.00	56.23	106.84	7,764.83	-655.67	-232.63	-175.36	10.00	8.85	-5.77
8,050.00	60.71	104.24	7,790.97	-667.06	-191.58	-133.48	10.00	8.97	-5.20
8,100.00	65.24	101.86	7,813.69	-677.10	-148.20	-89.40	10.00	9.06	-4.76
8,150.00	69.81	99.65	7,832.80	-685.71	-102.82	-43.45	10.00	9.13	-4.42
8,200.00	74.40	97.57	7,848.16	-692.82	-55.79	4.02	10.00	9.18	-4.17
8,250.00	79.01	95.58	7,859.66	-698.38	-7.47	52.64	10.00	9.22	-3.98

# ConocoPhillips

## Planning Report

<b>Database:</b>	EDT 14 Central Planning	<b>Local Co-ordinate Reference:</b>	Well Prosper Farms 4-65 11-12 3DH
<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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)
8,257.25	79.68	95.29	7,861.00	-699.05	-0.37	59.76	10.00	9.23	-3.90
<b>D Chalk Top</b>									
8,300.00	83.63	93.65	7,867.21	-702.35	41.79	102.05	10.00	9.24	-3.85
8,350.00	88.26	91.75	7,870.74	-704.69	91.59	151.87	10.00	9.26	-3.79
8,374.86	90.56	90.81	7,871.00	-705.25	116.44	176.68	10.00	9.26	-3.77
<b>BPI/LP: 1532' FSL, 613' FWL</b>									
8,400.00	90.56	90.81	7,870.75	-705.60	141.58	201.75	0.00	0.00	0.00
8,500.00	90.56	90.81	7,869.78	-707.02	241.56	301.49	0.00	0.00	0.00
8,600.00	90.56	90.81	7,868.80	-708.44	341.55	401.22	0.00	0.00	0.00
8,700.00	90.56	90.81	7,867.83	-709.86	441.53	500.96	0.00	0.00	0.00
8,800.00	90.56	90.81	7,866.85	-711.28	541.52	600.70	0.00	0.00	0.00
8,900.00	90.56	90.81	7,865.88	-712.70	641.50	700.43	0.00	0.00	0.00
9,000.00	90.56	90.81	7,864.90	-714.12	741.49	800.17	0.00	0.00	0.00
9,100.00	90.56	90.81	7,863.93	-715.54	841.47	899.91	0.00	0.00	0.00
9,200.00	90.56	90.81	7,862.95	-716.96	941.46	999.64	0.00	0.00	0.00
9,300.00	90.56	90.81	7,861.98	-718.38	1,041.44	1,099.38	0.00	0.00	0.00
9,400.00	90.56	90.81	7,861.00	-719.80	1,141.43	1,199.12	0.00	0.00	0.00
9,500.00	90.56	90.81	7,860.03	-721.22	1,241.41	1,298.85	0.00	0.00	0.00
9,600.00	90.56	90.81	7,859.05	-722.63	1,341.40	1,398.59	0.00	0.00	0.00
9,700.00	90.56	90.81	7,858.07	-724.05	1,441.38	1,498.33	0.00	0.00	0.00
9,800.00	90.56	90.81	7,857.10	-725.47	1,541.37	1,598.06	0.00	0.00	0.00
9,900.00	90.56	90.81	7,856.12	-726.89	1,641.35	1,697.80	0.00	0.00	0.00
10,000.00	90.56	90.81	7,855.15	-728.31	1,741.34	1,797.54	0.00	0.00	0.00
10,100.00	90.56	90.81	7,854.17	-729.73	1,841.32	1,897.27	0.00	0.00	0.00
10,200.00	90.56	90.81	7,853.20	-731.15	1,941.31	1,997.01	0.00	0.00	0.00
10,300.00	90.56	90.81	7,852.22	-732.57	2,041.29	2,096.75	0.00	0.00	0.00
10,400.00	90.56	90.81	7,851.25	-733.99	2,141.28	2,196.48	0.00	0.00	0.00
10,500.00	90.56	90.81	7,850.27	-735.41	2,241.27	2,296.22	0.00	0.00	0.00
10,600.00	90.56	90.81	7,849.30	-736.83	2,341.25	2,395.96	0.00	0.00	0.00
10,700.00	90.56	90.81	7,848.32	-738.25	2,441.24	2,495.69	0.00	0.00	0.00
10,800.00	90.56	90.81	7,847.34	-739.66	2,541.22	2,595.43	0.00	0.00	0.00
10,900.00	90.56	90.81	7,846.37	-741.08	2,641.21	2,695.17	0.00	0.00	0.00
11,000.00	90.56	90.81	7,845.39	-742.50	2,741.19	2,794.90	0.00	0.00	0.00
11,100.00	90.56	90.81	7,844.42	-743.92	2,841.18	2,894.64	0.00	0.00	0.00
11,200.00	90.56	90.81	7,843.44	-745.34	2,941.16	2,994.38	0.00	0.00	0.00
11,300.00	90.56	90.81	7,842.47	-746.76	3,041.15	3,094.11	0.00	0.00	0.00
11,400.00	90.56	90.81	7,841.49	-748.18	3,141.13	3,193.85	0.00	0.00	0.00
11,500.00	90.56	90.81	7,840.52	-749.60	3,241.12	3,293.59	0.00	0.00	0.00
11,600.00	90.56	90.81	7,839.54	-751.02	3,341.10	3,393.32	0.00	0.00	0.00
11,700.00	90.56	90.81	7,838.57	-752.44	3,441.09	3,493.06	0.00	0.00	0.00
11,800.00	90.56	90.81	7,837.59	-753.86	3,541.07	3,592.80	0.00	0.00	0.00
11,900.00	90.56	90.81	7,836.61	-755.28	3,641.06	3,692.53	0.00	0.00	0.00
12,000.00	90.56	90.81	7,835.64	-756.70	3,741.04	3,792.27	0.00	0.00	0.00
12,100.00	90.56	90.81	7,834.66	-758.11	3,841.03	3,892.01	0.00	0.00	0.00
12,200.00	90.56	90.81	7,833.69	-759.53	3,941.01	3,991.74	0.00	0.00	0.00
12,300.00	90.56	90.81	7,832.71	-760.95	4,041.00	4,091.48	0.00	0.00	0.00
12,400.00	90.56	90.81	7,831.74	-762.37	4,140.98	4,191.22	0.00	0.00	0.00
12,500.00	90.56	90.81	7,830.76	-763.79	4,240.97	4,290.95	0.00	0.00	0.00
12,600.00	90.56	90.81	7,829.79	-765.21	4,340.95	4,390.69	0.00	0.00	0.00
12,700.00	90.56	90.81	7,828.81	-766.63	4,440.94	4,490.43	0.00	0.00	0.00
12,800.00	90.56	90.81	7,827.84	-768.05	4,540.92	4,590.16	0.00	0.00	0.00
12,900.00	90.56	90.81	7,826.86	-769.47	4,640.91	4,689.90	0.00	0.00	0.00
13,000.00	90.56	90.81	7,825.89	-770.89	4,740.89	4,789.64	0.00	0.00	0.00
13,100.00	90.56	90.81	7,824.91	-772.31	4,840.88	4,889.37	0.00	0.00	0.00

# ConocoPhillips

## Planning Report

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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)	
13,200.00	90.56	90.81	7,823.93	-773.73	4,940.86	4,989.11	0.00	0.00	0.00	
13,300.00	90.56	90.81	7,822.96	-775.14	5,040.85	5,088.84	0.00	0.00	0.00	
13,400.00	90.56	90.81	7,821.98	-776.56	5,140.84	5,188.58	0.00	0.00	0.00	
13,500.00	90.56	90.81	7,821.01	-777.98	5,240.82	5,288.32	0.00	0.00	0.00	
13,600.00	90.56	90.81	7,820.03	-779.40	5,340.81	5,388.05	0.00	0.00	0.00	
13,700.00	90.56	90.81	7,819.06	-780.82	5,440.79	5,487.79	0.00	0.00	0.00	
13,800.00	90.56	90.81	7,818.08	-782.24	5,540.78	5,587.53	0.00	0.00	0.00	
13,900.00	90.56	90.81	7,817.11	-783.66	5,640.76	5,687.26	0.00	0.00	0.00	
14,000.00	90.56	90.81	7,816.13	-785.08	5,740.75	5,787.00	0.00	0.00	0.00	
14,100.00	90.56	90.81	7,815.16	-786.50	5,840.73	5,886.74	0.00	0.00	0.00	
14,200.00	90.56	90.81	7,814.18	-787.92	5,940.72	5,986.47	0.00	0.00	0.00	
14,300.00	90.56	90.81	7,813.20	-789.34	6,040.70	6,086.21	0.00	0.00	0.00	
14,400.00	90.56	90.81	7,812.23	-790.76	6,140.69	6,185.95	0.00	0.00	0.00	
14,500.00	90.56	90.81	7,811.25	-792.17	6,240.67	6,285.68	0.00	0.00	0.00	
14,600.00	90.56	90.81	7,810.28	-793.59	6,340.66	6,385.42	0.00	0.00	0.00	
14,700.00	90.56	90.81	7,809.30	-795.01	6,440.64	6,485.16	0.00	0.00	0.00	
14,800.00	90.56	90.81	7,808.33	-796.43	6,540.63	6,584.89	0.00	0.00	0.00	
14,900.00	90.56	90.81	7,807.35	-797.85	6,640.61	6,684.63	0.00	0.00	0.00	
15,000.00	90.56	90.81	7,806.38	-799.27	6,740.60	6,784.37	0.00	0.00	0.00	
15,100.00	90.56	90.81	7,805.40	-800.69	6,840.58	6,884.10	0.00	0.00	0.00	
15,200.00	90.56	90.81	7,804.43	-802.11	6,940.57	6,983.84	0.00	0.00	0.00	
15,300.00	90.56	90.81	7,803.45	-803.53	7,040.55	7,083.58	0.00	0.00	0.00	
15,400.00	90.56	90.81	7,802.48	-804.95	7,140.54	7,183.31	0.00	0.00	0.00	
15,500.00	90.56	90.81	7,801.50	-806.37	7,240.52	7,283.05	0.00	0.00	0.00	
15,600.00	90.56	90.81	7,800.52	-807.79	7,340.51	7,382.79	0.00	0.00	0.00	
15,700.00	90.56	90.81	7,799.55	-809.21	7,440.49	7,482.52	0.00	0.00	0.00	
15,800.00	90.56	90.81	7,798.57	-810.62	7,540.48	7,582.26	0.00	0.00	0.00	
15,900.00	90.56	90.81	7,797.60	-812.04	7,640.46	7,682.00	0.00	0.00	0.00	
16,000.00	90.56	90.81	7,796.62	-813.46	7,740.45	7,781.73	0.00	0.00	0.00	
16,100.00	90.56	90.81	7,795.65	-814.88	7,840.43	7,881.47	0.00	0.00	0.00	
16,200.00	90.56	90.81	7,794.67	-816.30	7,940.42	7,981.21	0.00	0.00	0.00	
16,300.00	90.56	90.81	7,793.70	-817.72	8,040.41	8,080.94	0.00	0.00	0.00	
16,400.00	90.56	90.81	7,792.72	-819.14	8,140.39	8,180.68	0.00	0.00	0.00	
16,500.00	90.56	90.81	7,791.75	-820.56	8,240.38	8,280.42	0.00	0.00	0.00	
16,600.00	90.56	90.81	7,790.77	-821.98	8,340.36	8,380.15	0.00	0.00	0.00	
16,700.00	90.56	90.81	7,789.79	-823.40	8,440.35	8,479.89	0.00	0.00	0.00	
16,800.00	90.56	90.81	7,788.82	-824.82	8,540.33	8,579.63	0.00	0.00	0.00	
16,900.00	90.56	90.81	7,787.84	-826.24	8,640.32	8,679.36	0.00	0.00	0.00	
17,000.00	90.56	90.81	7,786.87	-827.65	8,740.30	8,779.10	0.00	0.00	0.00	
17,100.00	90.56	90.81	7,785.89	-829.07	8,840.29	8,878.84	0.00	0.00	0.00	
17,200.00	90.56	90.81	7,784.92	-830.49	8,940.27	8,978.57	0.00	0.00	0.00	
17,300.00	90.56	90.81	7,783.94	-831.91	9,040.26	9,078.31	0.00	0.00	0.00	
17,400.00	90.56	90.81	7,782.97	-833.33	9,140.24	9,178.05	0.00	0.00	0.00	
17,500.00	90.56	90.81	7,781.99	-834.75	9,240.23	9,277.78	0.00	0.00	0.00	
17,600.00	90.56	90.81	7,781.02	-836.17	9,340.21	9,377.52	0.00	0.00	0.00	
17,700.00	90.56	90.81	7,780.04	-837.59	9,440.20	9,477.26	0.00	0.00	0.00	
17,800.00	90.56	90.81	7,779.06	-839.01	9,540.18	9,576.99	0.00	0.00	0.00	
17,900.00	90.56	90.81	7,778.09	-840.43	9,640.17	9,676.73	0.00	0.00	0.00	
18,000.00	90.56	90.81	7,777.11	-841.85	9,740.15	9,776.47	0.00	0.00	0.00	
18,011.66	90.56	90.81	7,777.00	-842.01	9,751.81	9,788.10	0.00	0.00	0.00	
BHL: 1532' FSL, 325' FEL - 5-1/2" Casing										



# ConocoPhillips

## Planning Report

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<b>Company:</b>	ConocoPhillips RBU Gold Data	<b>TVD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Project:</b>	Niobrara Central Zone	<b>MD Reference:</b>	27' RKB @ 5695.20ft (27' RKB)
<b>Site:</b>	Prosper Farms	<b>North Reference:</b>	True
<b>Well:</b>	Prosper Farms 4-65 11-12 3DH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Prosper Farms 4-65 11-12 3DH		
<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
Prosper Farms 4-65 1 - plan hits target center - Point	0.00	0.00	7,777.00	-842.01	9,751.81	1,686,545.746	3,251,939.789	39° 42' 53.860 N	104° 36' 15.950 W
Prosper Farms 4-65 1 - plan hits target center - Point	0.00	0.00	7,871.00	-705.25	116.44	1,686,591.195	3,242,303.629	39° 42' 55.230 N	104° 38' 19.250 W

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,147.00	2,147.00	9-5/8" Casing	9-5/8	12-1/4
18,011.66	7,777.00	5-1/2" Casing	5-1/2	8-1/2

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,744.00	1,744.00	Fox Hills Top		0.00	
1,947.00	1,947.00	Pierre Top - Fox Hills Base		0.00	
2,147.00	2,147.00	Surface Casing		0.00	
7,862.55	7,677.00	Niobrara Top		0.00	
8,257.25	7,861.00	D 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: 2236' FSL, 490' FWL
7,120.94	7,030.79	-354.26	-369.33	EOB: 1882' FSL, 121' FWL
7,261.19	7,152.25	-402.80	-419.94	KOP: 1833' FSL, 70' FWL
8,374.86	7,871.00	-705.25	116.44	BPI/LP: 1532' FSL, 613' FWL
18,011.66	7,777.00	-842.01	9,751.81	BHL: 1532' FSL, 325' FEL