

Anadarko Petroleum Corp.

Weld County, CO (NAD 83)

Sec. 25-T3N-R68W

Barefoot 33C-25HZ

Plan B

Plan: Rev B0 Permit

Sperry Drilling Services

Proposal Report

05 February, 2014

Well Coordinates: 1,314,535.03 N, 3,155,469.91 E (40° 11' 43.64" N, 104° 56' 36.44" W)

Ground Level: 4,871.00 usft

Local Coordinate Origin:

Centered on Well Barefoot 33C-25HZ

Viewing Datum:

RKB=17' @ 4889.00usft

TVDs to System:

N

North Reference:

True

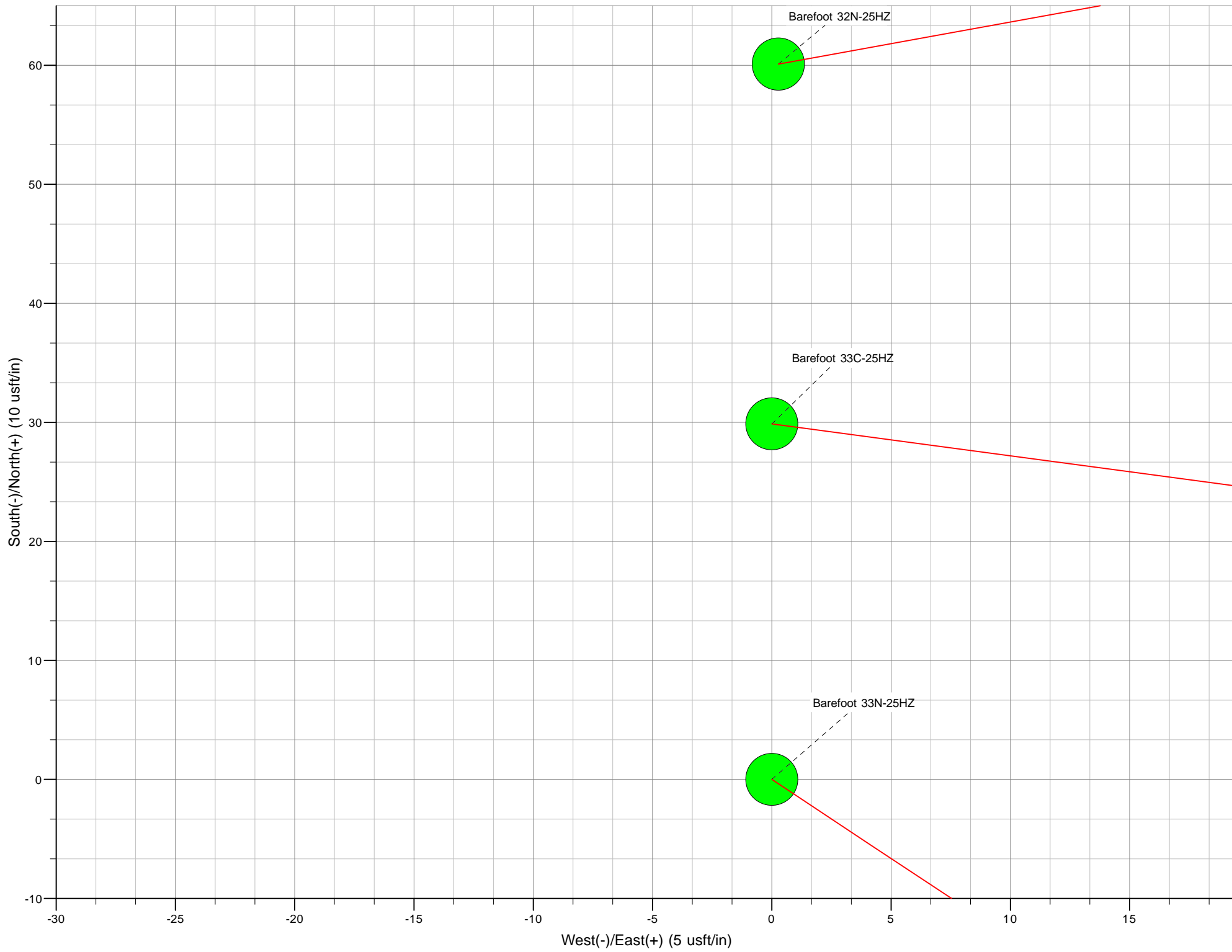
Unit System:

Dec-Deg - API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 5000.1 Build: 70

HALLIBURTON



Project: Weld County, CO (NAD 83)
Site: Sec. 25-T3N-R68W
Well: Barefoot 33C-25HZ
Wellbore: Plan B
Design: Rev B0 Permit

Anadarko Petroleum Corp.

HALLIBURTON
Sperry Drilling

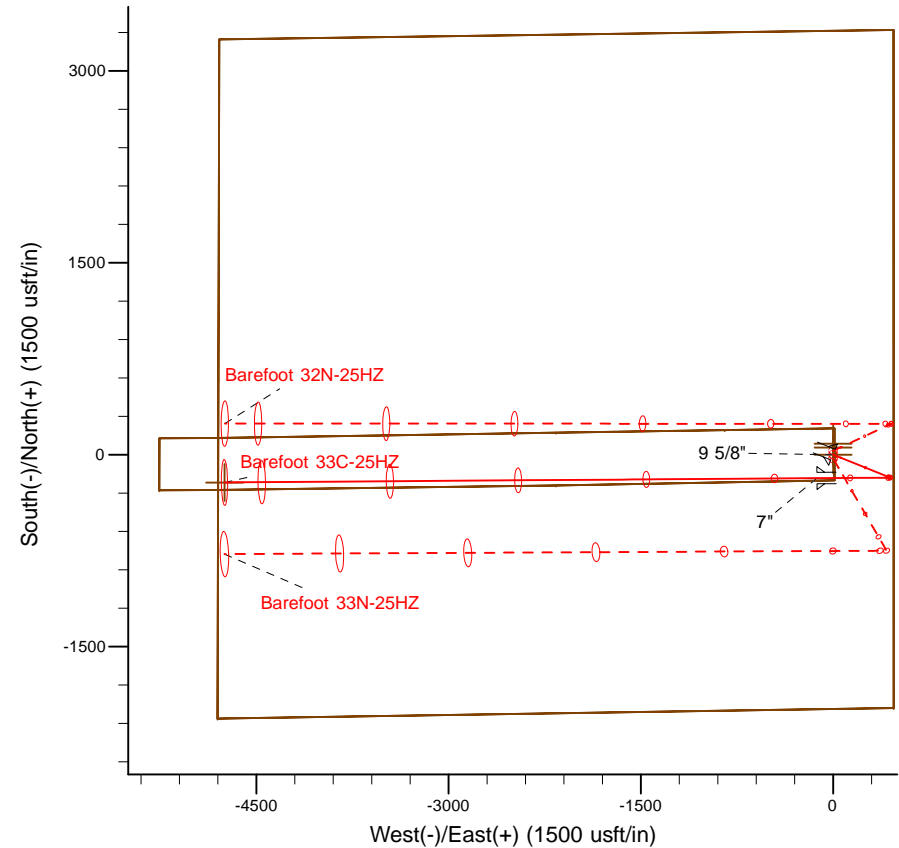
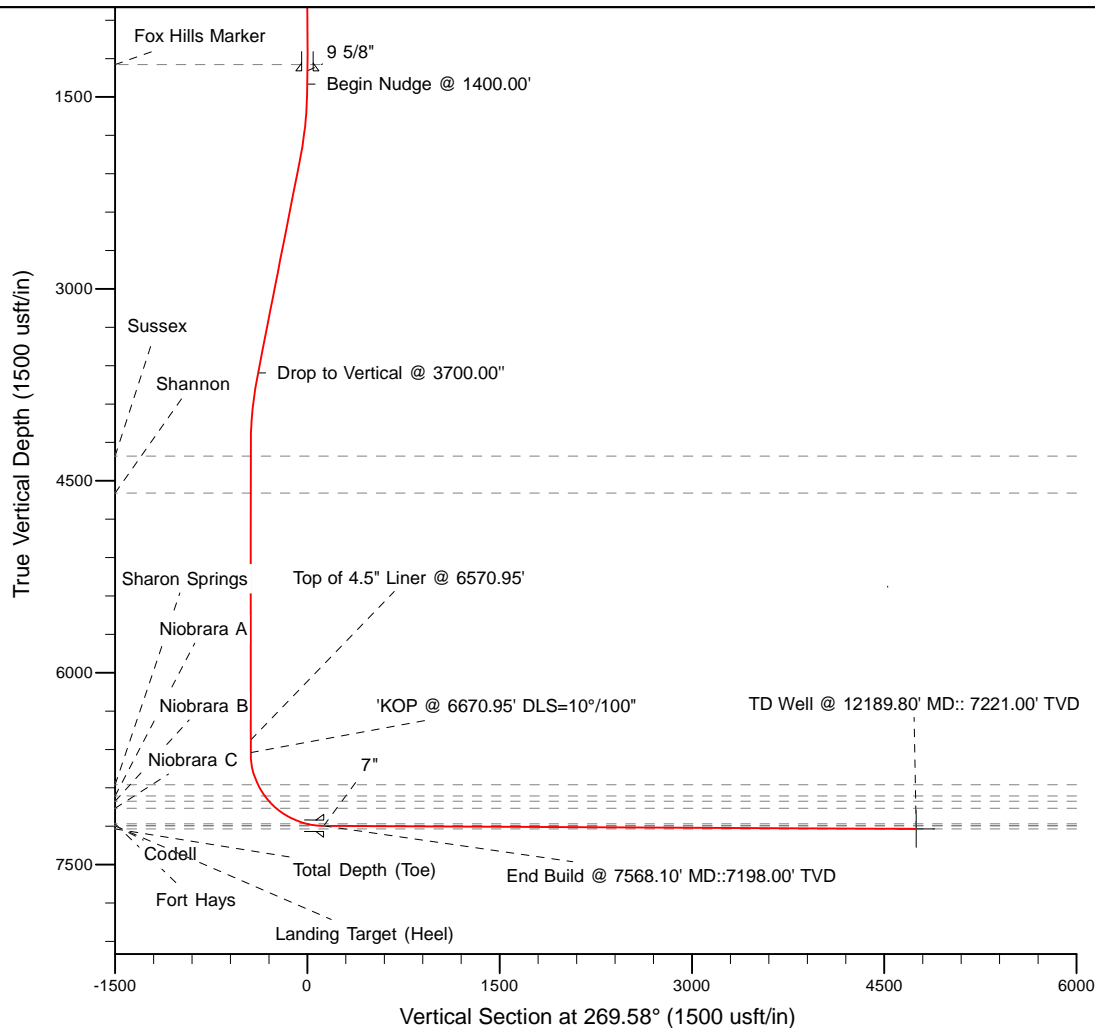
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Barefoot 32N-25HZ_Sec. Line	0.00	85.25	0.28	1314620.29	3155469.65	40.195690	-104.943455
Barefoot 33C-25HZ_LD	0.00	55.01	0.00	1314590.04	3155469.56	40.195607	-104.943456
Barefoot 33C-25HZ_SHL	0.00	0.01	0.00	1314535.04	3155469.91	40.195456	-104.943456
Barefoot 33C-25HZ_BHL	7221.00	-217.02	-4747.81	1314288.23	3150723.76	40.194859	-104.960451

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
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00
2000.00	12.00	112.00	1995.62	-23.45	58.04	2.00	-57.87
3700.00	12.00	112.00	3658.47	-155.86	385.76	0.00	-384.60
4300.00	0.00	0.00	4254.10	-179.31	443.80	2.00	-442.47
6670.95	0.00	0.00	6625.05	-179.31	443.80	0.00	-442.47
7568.10	89.71	269.58	7198.00	-183.45	-126.29	10.00	127.63
12189.80	89.71	269.58	7221.00	-217.02	-4747.81	0.00	4749.27

SHL: 470' FEL', 1989' FSL

BHL: 50' FWL, 1845' FSL

~7" Casing: 598' FEL', 1807' FSL



WELL DETAILS: Barefoot 33C-25HZ

Ground Level: 4871.00
RKB=17' @ 4889.00usft

Plan: Rev B0 Permit (Barefoot 33C-25HZ/Plan B)

Created By: Pari Amanlou

Date: 1-07-2014

Plan Report for Barefoot 33C-25HZ - Rev B0 Permit

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)	Toolface Azimuth (°)
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	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	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,247.00	0.00	0.00	1,247.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fox Hills Marker										
1,297.00	0.00	0.00	1,297.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"										
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
Begin Nudge @ 1400.00'										
1,500.00	2.00	112.00	1,499.98	-0.65	1.62	-1.61	2.00	2.00	0.00	112.00
1,600.00	4.00	112.00	1,599.84	-2.61	6.47	-6.45	2.00	2.00	0.00	0.00
1,700.00	6.00	112.00	1,699.45	-5.88	14.55	-14.51	2.00	2.00	0.00	0.00
1,800.00	8.00	112.00	1,798.70	-10.44	25.85	-25.77	2.00	2.00	0.00	0.00
1,900.00	10.00	112.00	1,897.47	-16.30	40.35	-40.23	2.00	2.00	0.00	0.00
2,000.00	12.00	112.00	1,995.62	-23.45	58.04	-57.87	2.00	2.00	0.00	0.00
2,100.00	12.00	112.00	2,093.44	-31.24	77.32	-77.09	0.00	0.00	0.00	0.00
2,200.00	12.00	112.00	2,191.25	-39.03	96.60	-96.31	0.00	0.00	0.00	0.00
2,300.00	12.00	112.00	2,289.07	-46.82	115.88	-115.53	0.00	0.00	0.00	0.00
2,400.00	12.00	112.00	2,386.88	-54.61	135.15	-134.75	0.00	0.00	0.00	0.00
2,500.00	12.00	112.00	2,484.70	-62.39	154.43	-153.97	0.00	0.00	0.00	0.00
2,600.00	12.00	112.00	2,582.51	-70.18	173.71	-173.19	0.00	0.00	0.00	0.00
2,700.00	12.00	112.00	2,680.33	-77.97	192.98	-192.41	0.00	0.00	0.00	0.00
2,800.00	12.00	112.00	2,778.14	-85.76	212.26	-211.63	0.00	0.00	0.00	0.00
2,900.00	12.00	112.00	2,875.96	-93.55	231.54	-230.85	0.00	0.00	0.00	0.00
3,000.00	12.00	112.00	2,973.77	-101.34	250.82	-250.07	0.00	0.00	0.00	0.00
3,100.00	12.00	112.00	3,071.59	-109.12	270.09	-269.29	0.00	0.00	0.00	0.00
3,200.00	12.00	112.00	3,169.40	-116.91	289.37	-288.51	0.00	0.00	0.00	0.00
3,300.00	12.00	112.00	3,267.22	-124.70	308.65	-307.73	0.00	0.00	0.00	0.00
3,400.00	12.00	112.00	3,365.03	-132.49	327.93	-326.95	0.00	0.00	0.00	0.00
3,500.00	12.00	112.00	3,462.84	-140.28	347.20	-346.16	0.00	0.00	0.00	0.00
3,600.00	12.00	112.00	3,560.66	-148.07	366.48	-365.38	0.00	0.00	0.00	0.00
3,700.00	12.00	112.00	3,658.47	-155.86	385.76	-384.60	0.00	0.00	0.00	0.00
Drop to Vertical @ 3700.00"										
3,800.00	10.00	112.00	3,756.63	-163.00	403.45	-402.24	2.00	-2.00	0.00	180.00
3,900.00	8.00	112.00	3,855.40	-168.86	417.95	-416.70	2.00	-2.00	0.00	180.00
4,000.00	6.00	112.00	3,954.65	-173.43	429.25	-427.97	2.00	-2.00	0.00	-180.00
4,100.00	4.00	112.00	4,054.26	-176.69	437.33	-436.02	2.00	-2.00	0.00	180.00
4,200.00	2.00	112.00	4,154.12	-178.65	442.18	-440.86	2.00	-2.00	0.00	180.00
4,300.00	0.00	0.00	4,254.10	-179.31	443.80	-442.47	2.00	-2.00	0.00	-180.00
4,352.90	0.00	0.00	4,307.00	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
Sussex										
4,400.00	0.00	0.00	4,354.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,454.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,554.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
4,642.90	0.00	0.00	4,597.00	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
Shannon										
4,700.00	0.00	0.00	4,654.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00

Plan Report for Barefoot 33C-25HZ - Rev B0 Permit

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)	Toolface Azimuth (°)
4,800.00	0.00	0.00	4,754.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,854.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	4,954.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,054.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,154.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,254.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,354.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,454.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,554.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,654.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,754.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,854.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,954.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,054.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,154.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,254.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,354.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,454.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,570.95	0.00	0.00	6,525.05	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
Top of 4.5" Liner @ 6570.95'										
6,600.00	0.00	0.00	6,554.10	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
6,670.95	0.00	0.00	6,625.05	-179.31	443.80	-442.47	0.00	0.00	0.00	0.00
'KOP @ 6670.95' DLS=10°/100"										
6,700.00	2.90	269.58	6,654.08	-179.31	443.06	-441.74	10.00	10.00	0.00	269.58
6,800.00	12.90	269.58	6,753.01	-179.41	429.33	-428.00	10.00	10.00	0.00	0.00
6,900.00	22.90	269.58	6,848.05	-179.64	398.63	-397.30	10.00	10.00	0.00	0.00
6,930.71	25.98	269.58	6,876.00	-179.73	385.92	-384.59	10.00	10.00	0.00	0.00
Sharon Springs										
7,000.00	32.90	269.58	6,936.31	-179.98	351.89	-350.56	10.00	10.00	0.00	0.00
7,032.41	36.15	269.58	6,963.00	-180.11	333.52	-332.19	10.00	10.00	0.00	0.00
Niobrara A										
7,086.35	41.54	269.58	7,005.00	-180.35	299.70	-298.37	10.00	10.00	0.00	0.00
Niobrara B										
7,100.00	42.90	269.58	7,015.11	-180.42	290.53	-289.20	10.00	10.00	0.00	0.00
7,163.30	49.23	269.58	7,059.00	-180.75	244.97	-243.64	10.00	10.00	0.00	0.00
Niobrara C										
7,200.00	52.90	269.58	7,082.06	-180.96	216.42	-215.09	10.00	10.00	0.00	0.00
7,300.00	62.90	269.58	7,135.13	-181.57	131.82	-130.48	10.00	10.00	0.00	0.00
7,400.00	72.90	269.58	7,172.69	-182.25	39.28	-37.94	10.00	10.00	0.00	0.00
7,431.00	76.00	269.58	7,181.00	-182.46	9.42	-8.08	10.00	10.00	0.00	0.00
Fort Hays										
7,500.00	82.90	269.58	7,193.62	-182.96	-58.37	59.71	10.00	10.00	0.00	0.00
7,503.14	83.22	269.58	7,194.00	-182.98	-61.49	62.83	10.00	10.00	0.00	0.00
Codell										
7,568.10	89.71	269.58	7,198.00	-183.45	-126.29	127.63	10.00	10.00	0.00	0.00
End Build @ 7568.10' MD::7198.00' TVD - 7"										
7,568.96	89.71	269.58	7,198.00	-183.46	-127.15	128.49	0.02	0.02	0.00	0.00
Landing Target (Heel)										
7,600.00	89.71	269.58	7,198.16	-183.68	-158.19	159.53	0.00	0.00	0.00	0.00
7,700.00	89.71	269.58	7,198.66	-184.41	-258.18	259.53	0.00	0.00	0.00	0.00
7,800.00	89.71	269.58	7,199.15	-185.13	-358.18	359.53	0.00	0.00	0.00	0.00
7,900.00	89.71	269.58	7,199.65	-185.86	-458.18	459.53	0.00	0.00	0.00	0.00
8,000.00	89.71	269.58	7,200.15	-186.59	-558.17	559.52	0.00	0.00	0.00	0.00
8,100.00	89.71	269.58	7,200.65	-187.31	-658.17	659.52	0.00	0.00	0.00	0.00
8,200.00	89.71	269.58	7,201.15	-188.04	-758.16	759.52	0.00	0.00	0.00	0.00
8,300.00	89.71	269.58	7,201.64	-188.77	-858.16	859.52	0.00	0.00	0.00	0.00
8,400.00	89.71	269.58	7,202.14	-189.49	-958.16	959.52	0.00	0.00	0.00	0.00
8,500.00	89.71	269.58	7,202.64	-190.22	-1,058.15	1,059.52	0.00	0.00	0.00	0.00

Plan Report for Barefoot 33C-25HZ - Rev B0 Permit

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)	Toolface Azimuth (°)
8,600.00	89.71	269.58	7,203.14	-190.95	-1,158.15	1,159.52	0.00	0.00	0.00	0.00
8,700.00	89.71	269.58	7,203.63	-191.67	-1,258.14	1,259.52	0.00	0.00	0.00	0.00
8,800.00	89.71	269.58	7,204.13	-192.40	-1,358.14	1,359.51	0.00	0.00	0.00	0.00
8,900.00	89.71	269.58	7,204.63	-193.12	-1,458.14	1,459.51	0.00	0.00	0.00	0.00
9,000.00	89.71	269.58	7,205.13	-193.85	-1,558.13	1,559.51	0.00	0.00	0.00	0.00
9,100.00	89.71	269.58	7,205.62	-194.58	-1,658.13	1,659.51	0.00	0.00	0.00	0.00
9,200.00	89.71	269.58	7,206.12	-195.30	-1,758.13	1,759.51	0.00	0.00	0.00	0.00
9,300.00	89.71	269.58	7,206.62	-196.03	-1,858.12	1,859.51	0.00	0.00	0.00	0.00
9,400.00	89.71	269.58	7,207.12	-196.76	-1,958.12	1,959.51	0.00	0.00	0.00	0.00
9,500.00	89.71	269.58	7,207.61	-197.48	-2,058.11	2,059.51	0.00	0.00	0.00	0.00
9,600.00	89.71	269.58	7,208.11	-198.21	-2,158.11	2,159.51	0.00	0.00	0.00	0.00
9,700.00	89.71	269.58	7,208.61	-198.94	-2,258.11	2,259.50	0.00	0.00	0.00	0.00
9,800.00	89.71	269.58	7,209.11	-199.66	-2,358.10	2,359.50	0.00	0.00	0.00	0.00
9,900.00	89.71	269.58	7,209.61	-200.39	-2,458.10	2,459.50	0.00	0.00	0.00	0.00
10,000.00	89.71	269.58	7,210.10	-201.12	-2,558.09	2,559.50	0.00	0.00	0.00	0.00
10,100.00	89.71	269.58	7,210.60	-201.84	-2,658.09	2,659.50	0.00	0.00	0.00	0.00
10,200.00	89.71	269.58	7,211.10	-202.57	-2,758.09	2,759.50	0.00	0.00	0.00	0.00
10,300.00	89.71	269.58	7,211.60	-203.29	-2,858.08	2,859.50	0.00	0.00	0.00	0.00
10,400.00	89.71	269.58	7,212.09	-204.02	-2,958.08	2,959.50	0.00	0.00	0.00	0.00
10,500.00	89.71	269.58	7,212.59	-204.75	-3,058.08	3,059.49	0.00	0.00	0.00	0.00
10,600.00	89.71	269.58	7,213.09	-205.47	-3,158.07	3,159.49	0.00	0.00	0.00	0.00
10,700.00	89.71	269.58	7,213.59	-206.20	-3,258.07	3,259.49	0.00	0.00	0.00	0.00
10,800.00	89.71	269.58	7,214.08	-206.93	-3,358.06	3,359.49	0.00	0.00	0.00	0.00
10,900.00	89.71	269.58	7,214.58	-207.65	-3,458.06	3,459.49	0.00	0.00	0.00	0.00
11,000.00	89.71	269.58	7,215.08	-208.38	-3,558.06	3,559.49	0.00	0.00	0.00	0.00
11,100.00	89.71	269.58	7,215.58	-209.11	-3,658.05	3,659.49	0.00	0.00	0.00	0.00
11,200.00	89.71	269.58	7,216.07	-209.83	-3,758.05	3,759.49	0.00	0.00	0.00	0.00
11,300.00	89.71	269.58	7,216.57	-210.56	-3,858.04	3,859.48	0.00	0.00	0.00	0.00
11,400.00	89.71	269.58	7,217.07	-211.29	-3,958.04	3,959.48	0.00	0.00	0.00	0.00
11,500.00	89.71	269.58	7,217.57	-212.01	-4,058.04	4,059.48	0.00	0.00	0.00	0.00
11,600.00	89.71	269.58	7,218.06	-212.74	-4,158.03	4,159.48	0.00	0.00	0.00	0.00
11,700.00	89.71	269.58	7,218.56	-213.46	-4,258.03	4,259.48	0.00	0.00	0.00	0.00
11,800.00	89.71	269.58	7,219.06	-214.19	-4,358.02	4,359.48	0.00	0.00	0.00	0.00
11,900.00	89.71	269.58	7,219.56	-214.92	-4,458.02	4,459.48	0.00	0.00	0.00	0.00
12,000.00	89.71	269.58	7,220.06	-215.64	-4,558.02	4,559.48	0.00	0.00	0.00	0.00
12,100.00	89.71	269.58	7,220.55	-216.37	-4,658.01	4,659.47	0.00	0.00	0.00	0.00
12,189.80	89.71	269.58	7,221.00	-217.02	-4,747.81	4,749.27	0.00	0.00	0.00	0.00

TD Well @ 12189.80' MD:: 7221.00' TVD - Total Depth (Toe)

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,400.00	1,400.00	0.00	0.00	Begin Nudge @ 1400.00'
3,700.00	3,658.47	-155.86	385.76	Drop to Vertical @ 3700.00"
6,570.95	6,525.05	-179.31	443.80	Top of 4.5" Liner @ 6570.95'
6,670.95	6,625.05	-179.31	443.80	'KOP @ 6670.95' DLS=10°/100"
7,568.10	7,198.00	-183.45	-126.29	End Build @ 7568.10' MD::7198.00' TVD
12,189.80	7,221.00	-217.02	-4,747.81	TD Well @ 12189.80' MD:: 7221.00' TVD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	+E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	269.58	Slot	0.00	0.00	0.00

Plan Report for Barefoot 33C-25HZ - Rev B0 Permit

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	1,098.00	Rev B0 Permit	MWD
1,098.00	7,568.10	Rev B0 Permit	MWD
7,568.10	12,189.80	Rev B0 Permit	MWD

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,297.00	1,297.00	9 5/8"	9-5/8	12-3/4
7,568.10	7,198.00	7"	7	8-3/4

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,247.00	1,247.00	Fox Hills Marker		0.00	
4,352.90	4,307.00	Sussex		0.00	
4,642.90	4,597.00	Shannon		0.00	
6,930.71	6,876.00	Sharon Springs		0.00	
7,032.41	6,963.00	Niobrara A		0.00	
7,086.35	7,005.00	Niobrara B		0.00	
7,163.30	7,059.00	Niobrara C		0.00	
7,431.00	7,181.00	Fort Hays		0.00	
7,503.14	7,194.00	Codell		0.00	
7,568.96	7,198.00	Landing Target (Heel)		0.00	
12,189.80	7,221.00	Total Depth (Toe)		0.00	

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Barefoot 33C-25HZ_LD	0.00	55.01	0.00	Polygon
Barefoot 32N-25HZ_Sec. Line	0.00	85.25	0.28	Polygon
Barefoot 33C-25HZ_SHL	0.00	0.01	0.00	Point
Barefoot 33C-25HZ_BHL	7,221.00	-217.02	-4,747.81	Point

Directional Difficulty Index

Average Dogleg over Survey:	0.93 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 7,568.10 usft
Net Tortousity applicable to Plans:	0.93 °/100usft	Directional Difficulty Index:	6.196

Audit Info

North Reference Sheet for Sec. 25-T3N-R68W - Barefoot 33C-25HZ - Plan B

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference .
Vertical Depths are relative to RKB=17' @ 4889.00usft. Northing and Easting are relative to Barefoot 33C-25HZ
Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980
Projection method is Lambert Conformal Conic (2 parallel)
Central Meridian is -105.50°, Longitude Origin:0.000000°, Latitude Origin:40.783333°
False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 0.99995731

Grid Coordinates of Well: 1,314,535.03 usft N, 3,155,469.91 usft E
Geographical Coordinates of Well: 40° 11' 43.64" N, 104° 56' 36.44" W
Grid Convergence at Surface is: 0.36°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,189.80usft
the Bottom Hole Displacement is 4,752.77usft in the Direction of 267.38° (True).
Magnetic Convergence at surface is: -8.28° (9 January 2014, , BGGM2013)

