

BAYSWATER E & P, LLC

Location	Weld County, CO	Slot	KTC Farms B-35-36HC
Field	WATTENBERG	Well	W KTC Farms B-35-36HC
Installation	KTC Farms Pad	Wellbore	W KTC Farms B-35-36HC (PWB)

East (Feet) ->

N
GRID

-3200 -1600 0 1600 3200 4800 6400 8000 9600 11200
Scale 1 cm = 800 ft

Surface 0.00 N 0.00 E KTC Farms B-35-36HC - BH
KTC Farms B-35-36HC - EP

1600
0
1600
Scale 1 cm = 800 ft
< North (Feet) | South (Feet) >

Nov-21-2017

EMM-2015 [2000.0-2020.0] Dip: 66.99 deg Field: 52425.0 nT
Lat: N40 32 17.1492 Long: W104 45 9.2160 Elev: 4861.00 ft
Magnetic North is 8.14 deg East of True North
GRID North is 0.48 deg East of True North
To correct azimuth from True to GRID subtract 0.48 deg
To correct azimuth from Magnetic to GRID add 7.66 deg

Created by admin
Date plotted 22-Nov-2017
Plot reference is W KTC Farms B-35-36HC (PWB).
Ref wellpath is W KTC Farms B-35-36HC (PWP#1).
Coordinates are in Feet reference KTC Farms B-35-36HC.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4886.00 ft.
Plot North is aligned to GRID North.

Tie on - 0.00 Inc, 25.00 MD, 25.00 TVD, 0.00 VS

3DS Kick off Point - 0.00 Inc, 1025.00 MD, 1025.00 TVD, 0.00 VS

End of Build - 5.92 Inc, 1321.22 MD, 1320.69 TVD, -15.22 VS

<- True Vertical Depth (Feet)

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	25.00	0.00	0.00	25.00	S 0.00	W 0.00		0.00
KOP	1025.00	0.00	263.08	1025.00	S 0.00	W 0.00	0.00	0.00
End of Build	1321.22	5.92	263.08	1320.69	S 1.84	W 15.19	2.00	-15.22
End of Hold	6763.82	5.92	263.08	6734.23	S 69.55	W 572.86	0.00	-573.91
Target KTC Fa...C - EP	7725.13	90.24	88.70	7366.00	S 63.03	W 0.58	10.00	-1.60
T.D. & Target KTC... BH	17461.45	90.24	88.70	7326.00	N 157.56	E 9733.15	0.00	9734.43

End of Hold - 5.92 Inc, 6763.82 MD, 6734.23 TVD, -573.91 VS

KTC Farms B-35-36HC - EP

S/C Kick off Point - 90.24 Inc, 7725.13 MD, 7366.00 TVD, -1.60 VS

KTC Farms B-35-36HC - BH

T.D. & End of Hold - 7326.00 TVD, 157.56 N 9733.15 E

-1600 -800 0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000 8800 9600 10400
Scale 1 cm = 400 ft
Vertical Section (Feet) ->

Azimuth 89.07 with reference 0.00 N, 0.00 E from KTC Farms B-35-36HC



Wellhead Details							
Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
KTC Farms B-35-36HC	40.53805600	-104.75255900	1439730.1114	3207743.6691	14.93S	0.40E	0.00

Declination		
Date	Source	Time
Nov-21-2017	EMM-2015 [2000.0-2020.0]	10:51

Installation Details						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
KTC Farms Pad	40.53809700	-104.75256000	1439745.0452	3207743.2653	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Summary Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
25.00	0.00	0.000	25.00	0.00N	0.00E		0.00	1439730.11	3207743.67
1025.00	0.00	263.080	1025.00	0.00N	0.00E	==>	0.00	1439730.11	3207743.67
1321.22	5.92	263.080	1320.69	1.84S	15.19W	2.00	-15.22	1439728.27	3207728.48
6763.82	5.92	263.080	6734.23	69.55S	572.86W	==>	-573.91	1439660.56	3207170.83
7725.13	90.24	88.700	7366.00	63.03S	0.58W	10.00	-1.60	1439667.08	3207743.09
17461.45	90.24	88.700	7326.00	157.56N	9733.15E	==>	9734.43	1439887.67	3217476.51

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	Rig Datum
25.00	0.00	0.000	25.00	0.00N	0.00E	==>	0.00	Slot Datum
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	
1100.00	1.50	263.080	1099.99	0.12S	0.97W	2.00	-0.98	
1200.00	3.50	263.080	1199.89	0.64S	5.30W	2.00	-5.31	
1300.00	5.50	263.080	1299.58	1.59S	13.09W	2.00	-13.12	
1400.00	5.92	263.080	1399.05	2.82S	23.26W	==>	-23.30	
1500.00	5.92	263.080	1498.52	4.07S	33.51W	==>	-33.57	
1600.00	5.92	263.080	1597.98	5.31S	43.75W	==>	-43.83	
1700.00	5.92	263.080	1697.45	6.56S	54.00W	==>	-54.10	
1800.00	5.92	263.080	1796.92	7.80S	64.25W	==>	-64.37	
1900.00	5.92	263.080	1896.38	9.04S	74.49W	==>	-74.63	
2000.00	5.92	263.080	1995.85	10.29S	84.74W	==>	-84.90	
2100.00	5.92	263.080	2095.31	11.53S	94.99W	==>	-95.16	
2200.00	5.92	263.080	2194.78	12.78S	105.23W	==>	-105.43	
2300.00	5.92	263.080	2294.24	14.02S	115.48W	==>	-115.69	
2400.00	5.92	263.080	2393.71	15.26S	125.73W	==>	-125.96	
2500.00	5.92	263.080	2493.18	16.51S	135.97W	==>	-136.22	
2600.00	5.92	263.080	2592.64	17.75S	146.22W	==>	-146.49	
2700.00	5.92	263.080	2692.11	19.00S	156.46W	==>	-156.75	
2800.00	5.92	263.080	2791.57	20.24S	166.71W	==>	-167.02	
2900.00	5.92	263.080	2891.04	21.48S	176.96W	==>	-177.28	
3000.00	5.92	263.080	2990.51	22.73S	187.20W	==>	-187.55	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4886.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 89.070 degrees
Bottom hole distance is 9734.43 Feet on azimuth 89.07 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Microsoft
Date Printed: 22-Nov-2017



SYSDRILL
Well Design Combined Report
Wellbore: W KTC Farms B-35-36HC (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
3100.00	5.92	263.080	3089.97	23.97S	197.45W	==>	-197.81	
3200.00	5.92	263.080	3189.44	25.22S	207.70W	==>	-208.08	
3300.00	5.92	263.080	3288.90	26.46S	217.94W	==>	-218.34	
3400.00	5.92	263.080	3388.37	27.70S	228.19W	==>	-228.61	
3500.00	5.92	263.080	3487.84	28.95S	238.44W	==>	-238.87	
3600.00	5.92	263.080	3587.30	30.19S	248.68W	==>	-249.14	
3700.00	5.92	263.080	3686.77	31.44S	258.93W	==>	-259.40	
3800.00	5.92	263.080	3786.23	32.68S	269.18W	==>	-269.67	
3900.00	5.92	263.080	3885.70	33.92S	279.42W	==>	-279.93	
4000.00	5.92	263.080	3985.16	35.17S	289.67W	==>	-290.20	
4100.00	5.92	263.080	4084.63	36.41S	299.91W	==>	-300.46	
4200.00	5.92	263.080	4184.10	37.66S	310.16W	==>	-310.73	
4300.00	5.92	263.080	4283.56	38.90S	320.41W	==>	-320.99	
4400.00	5.92	263.080	4383.03	40.14S	330.65W	==>	-331.26	
4500.00	5.92	263.080	4482.49	41.39S	340.90W	==>	-341.53	
4600.00	5.92	263.080	4581.96	42.63S	351.15W	==>	-351.79	
4700.00	5.92	263.080	4681.43	43.88S	361.39W	==>	-362.06	
4800.00	5.92	263.080	4780.89	45.12S	371.64W	==>	-372.32	
4900.00	5.92	263.080	4880.36	46.36S	381.89W	==>	-382.59	
5000.00	5.92	263.080	4979.82	47.61S	392.13W	==>	-392.85	
5100.00	5.92	263.080	5079.29	48.85S	402.38W	==>	-403.12	
5200.00	5.92	263.080	5178.76	50.10S	412.62W	==>	-413.38	
5300.00	5.92	263.080	5278.22	51.34S	422.87W	==>	-423.65	
5400.00	5.92	263.080	5377.69	52.58S	433.12W	==>	-433.91	
5500.00	5.92	263.080	5477.15	53.83S	443.36W	==>	-444.18	
5600.00	5.92	263.080	5576.62	55.07S	453.61W	==>	-454.44	
5700.00	5.92	263.080	5676.09	56.32S	463.86W	==>	-464.71	
5800.00	5.92	263.080	5775.55	57.56S	474.10W	==>	-474.97	
5900.00	5.92	263.080	5875.02	58.80S	484.35W	==>	-485.24	
6000.00	5.92	263.080	5974.48	60.05S	494.60W	==>	-495.50	
6100.00	5.92	263.080	6073.95	61.29S	504.84W	==>	-505.77	
6200.00	5.92	263.080	6173.41	62.54S	515.09W	==>	-516.03	
6300.00	5.92	263.080	6272.88	63.78S	525.34W	==>	-526.30	
6400.00	5.92	263.080	6372.35	65.02S	535.58W	==>	-536.56	
6500.00	5.92	263.080	6471.81	66.27S	545.83W	==>	-546.83	
6600.00	5.92	263.080	6571.28	67.51S	556.07W	==>	-557.09	
6700.00	5.92	263.080	6670.74	68.76S	566.32W	==>	-567.36	
6800.00	2.35	254.360	6770.30	69.98S	575.43W	10.00	-576.49	
6900.00	7.74	92.990	6870.06	70.88S	570.66W	10.00	-571.74	
7000.00	17.73	90.530	6967.47	71.38S	548.65W	10.00	-549.74	
7100.00	27.73	89.810	7059.59	71.44S	510.07W	10.00	-511.16	
7200.00	37.73	89.460	7143.61	71.08S	456.07W	10.00	-457.16	
7300.00	47.72	89.230	7216.98	70.29S	388.32W	10.00	-389.40	
7400.00	57.72	89.070	7277.47	69.11S	308.85W	10.00	-309.93	
7500.00	67.72	88.940	7323.24	67.57S	220.10W	10.00	-221.16	
7600.00	77.72	88.830	7352.90	65.71S	124.75W	10.00	-125.80	
7700.00	87.72	88.730	7365.55	63.60S	25.70W	10.00	-26.73	
7800.00	90.24	88.700	7365.69	61.34S	74.26E	==>	73.26	
7900.00	90.24	88.700	7365.28	59.07S	174.24E	==>	173.26	
8000.00	90.24	88.700	7364.87	56.81S	274.21E	==>	273.26	
8100.00	90.24	88.700	7364.46	54.54S	374.19E	==>	373.25	
8200.00	90.24	88.700	7364.05	52.28S	474.16E	==>	473.25	
8300.00	90.24	88.700	7363.64	50.01S	574.13E	==>	573.25	
8400.00	90.24	88.700	7363.23	47.74S	674.11E	==>	673.24	
8500.00	90.24	88.700	7362.82	45.48S	774.08E	==>	773.24	
8600.00	90.24	88.700	7362.41	43.21S	874.05E	==>	873.24	
8700.00	90.24	88.700	7361.99	40.95S	974.03E	==>	973.24	
8800.00	90.24	88.700	7361.58	38.68S	1074.00E	==>	1073.23	
8900.00	90.24	88.700	7361.17	36.42S	1173.97E	==>	1173.23	

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Vertical Section is from 0.00N 0.00E on azimuth 89.070 degrees
Bottom hole distance is 9734.43 Feet on azimuth 89.07 degrees from Wellhead
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Well Design Combined Report
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Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
9000.00	90.24	88.700	7360.76	34.15S	1273.95E	==>	1273.23	
9100.00	90.24	88.700	7360.35	31.88S	1373.92E	==>	1373.22	
9200.00	90.24	88.700	7359.94	29.62S	1473.89E	==>	1473.22	
9300.00	90.24	88.700	7359.53	27.35S	1573.87E	==>	1573.22	
9400.00	90.24	88.700	7359.12	25.09S	1673.84E	==>	1673.22	
9500.00	90.24	88.700	7358.71	22.82S	1773.81E	==>	1773.21	
9600.00	90.24	88.700	7358.30	20.56S	1873.79E	==>	1873.21	
9700.00	90.24	88.700	7357.89	18.29S	1973.76E	==>	1973.21	
9800.00	90.24	88.700	7357.48	16.02S	2073.73E	==>	2073.20	
9900.00	90.24	88.700	7357.06	13.76S	2173.71E	==>	2173.20	
10000.00	90.24	88.700	7356.65	11.49S	2273.68E	==>	2273.20	
10100.00	90.24	88.700	7356.24	9.23S	2373.66E	==>	2373.19	
10200.00	90.24	88.700	7355.83	6.96S	2473.63E	==>	2473.19	
10300.00	90.24	88.700	7355.42	4.70S	2573.60E	==>	2573.19	
10400.00	90.24	88.700	7355.01	2.43S	2673.58E	==>	2673.19	
10500.00	90.24	88.700	7354.60	0.16S	2773.55E	==>	2773.18	
10600.00	90.24	88.700	7354.19	2.10N	2873.52E	==>	2873.18	
10700.00	90.24	88.700	7353.78	4.37N	2973.50E	==>	2973.18	
10800.00	90.24	88.700	7353.37	6.63N	3073.47E	==>	3073.17	
10900.00	90.24	88.700	7352.96	8.90N	3173.44E	==>	3173.17	
11000.00	90.24	88.700	7352.55	11.16N	3273.42E	==>	3273.17	
11100.00	90.24	88.700	7352.13	13.43N	3373.39E	==>	3373.17	
11200.00	90.24	88.700	7351.72	15.70N	3473.36E	==>	3473.16	
11300.00	90.24	88.700	7351.31	17.96N	3573.34E	==>	3573.16	
11400.00	90.24	88.700	7350.90	20.23N	3673.31E	==>	3673.16	
11500.00	90.24	88.700	7350.49	22.49N	3773.28E	==>	3773.15	
11600.00	90.24	88.700	7350.08	24.76N	3873.26E	==>	3873.15	
11700.00	90.24	88.700	7349.67	27.02N	3973.23E	==>	3973.15	
11800.00	90.24	88.700	7349.26	29.29N	4073.20E	==>	4073.14	
11900.00	90.24	88.700	7348.85	31.56N	4173.18E	==>	4173.14	
12000.00	90.24	88.700	7348.44	33.82N	4273.15E	==>	4273.14	
12100.00	90.24	88.700	7348.03	36.09N	4373.12E	==>	4373.14	
12200.00	90.24	88.700	7347.62	38.35N	4473.10E	==>	4473.13	
12300.00	90.24	88.700	7347.20	40.62N	4573.07E	==>	4573.13	
12400.00	90.24	88.700	7346.79	42.88N	4673.05E	==>	4673.13	
12500.00	90.24	88.700	7346.38	45.15N	4773.02E	==>	4773.12	
12600.00	90.24	88.700	7345.97	47.41N	4872.99E	==>	4873.12	
12700.00	90.24	88.700	7345.56	49.68N	4972.97E	==>	4973.12	
12800.00	90.24	88.700	7345.15	51.95N	5072.94E	==>	5073.12	
12900.00	90.24	88.700	7344.74	54.21N	5172.91E	==>	5173.11	
13000.00	90.24	88.700	7344.33	56.48N	5272.89E	==>	5273.11	
13100.00	90.24	88.700	7343.92	58.74N	5372.86E	==>	5373.11	
13200.00	90.24	88.700	7343.51	61.01N	5472.83E	==>	5473.10	
13300.00	90.24	88.700	7343.10	63.27N	5572.81E	==>	5573.10	
13400.00	90.24	88.700	7342.69	65.54N	5672.78E	==>	5673.10	
13500.00	90.24	88.700	7342.27	67.81N	5772.75E	==>	5773.09	
13600.00	90.24	88.700	7341.86	70.07N	5872.73E	==>	5873.09	
13700.00	90.24	88.700	7341.45	72.34N	5972.70E	==>	5973.09	
13800.00	90.24	88.700	7341.04	74.60N	6072.67E	==>	6073.09	
13900.00	90.24	88.700	7340.63	76.87N	6172.65E	==>	6173.08	
14000.00	90.24	88.700	7340.22	79.13N	6272.62E	==>	6273.08	
14100.00	90.24	88.700	7339.81	81.40N	6372.59E	==>	6373.08	
14200.00	90.24	88.700	7339.40	83.67N	6472.57E	==>	6473.07	
14300.00	90.24	88.700	7338.99	85.93N	6572.54E	==>	6573.07	
14400.00	90.24	88.700	7338.58	88.20N	6672.51E	==>	6673.07	
14500.00	90.24	88.700	7338.17	90.46N	6772.49E	==>	6773.07	
14600.00	90.24	88.700	7337.76	92.73N	6872.46E	==>	6873.06	
14700.00	90.24	88.700	7337.34	94.99N	6972.44E	==>	6973.06	
14800.00	90.24	88.700	7336.93	97.26N	7072.41E	==>	7073.06	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4886.0ft above Mean Sea Level)
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SYS DRILL
Well Design Combined Report
Wellbore: W KTC Farms B-35-36HC (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
14900.00	90.24	88.700	7336.52	99.53N	7172.38E	==>	7173.05	
15000.00	90.24	88.700	7336.11	101.79N	7272.36E	==>	7273.05	
15100.00	90.24	88.700	7335.70	104.06N	7372.33E	==>	7373.05	
15200.00	90.24	88.700	7335.29	106.32N	7472.30E	==>	7473.04	
15300.00	90.24	88.700	7334.88	108.59N	7572.28E	==>	7573.04	
15400.00	90.24	88.700	7334.47	110.85N	7672.25E	==>	7673.04	
15500.00	90.24	88.700	7334.06	113.12N	7772.22E	==>	7773.04	
15600.00	90.24	88.700	7333.65	115.39N	7872.20E	==>	7873.03	
15700.00	90.24	88.700	7333.24	117.65N	7972.17E	==>	7973.03	
15800.00	90.24	88.700	7332.83	119.92N	8072.14E	==>	8073.03	
15900.00	90.24	88.700	7332.41	122.18N	8172.12E	==>	8173.02	
16000.00	90.24	88.700	7332.00	124.45N	8272.09E	==>	8273.02	
16100.00	90.24	88.700	7331.59	126.71N	8372.06E	==>	8373.02	
16200.00	90.24	88.700	7331.18	128.98N	8472.04E	==>	8473.02	
16300.00	90.24	88.700	7330.77	131.25N	8572.01E	==>	8573.01	
16400.00	90.24	88.700	7330.36	133.51N	8671.98E	==>	8673.01	
16500.00	90.24	88.700	7329.95	135.78N	8771.96E	==>	8773.01	
16600.00	90.24	88.700	7329.54	138.04N	8871.93E	==>	8873.00	
16700.00	90.24	88.700	7329.13	140.31N	8971.91E	==>	8973.00	
16800.00	90.24	88.700	7328.72	142.57N	9071.88E	==>	9073.00	
16900.00	90.24	88.700	7328.31	144.84N	9171.85E	==>	9172.99	
17000.00	90.24	88.700	7327.90	147.11N	9271.83E	==>	9272.99	
17100.00	90.24	88.700	7327.48	149.37N	9371.80E	==>	9372.99	
17200.00	90.24	88.700	7327.07	151.64N	9471.77E	==>	9472.99	
17300.00	90.24	88.700	7326.66	153.90N	9571.75E	==>	9572.98	
17400.00	90.24	88.700	7326.25	156.17N	9671.72E	==>	9672.98	
17461.45	90.24	88.700	7326.00	157.56N	9733.15E	==>	9734.43	

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Vertical Section is from 0.00N 0.00E on azimuth 89.070 degrees
Bottom hole distance is 9734.43 Feet on azimuth 89.07 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Microsoft
Date Printed: 22-Nov-2017



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
KTC Farms B-35-36HC - EP	63.03S	0.58W	7366.00	40.53788300	-104.75256300	1439667.08	3207743.09
KTC Farms B-35-36HC - BH	157.56N	9733.15E	7326.00	40.53825800	-104.71753800	1439887.67	3217476.51

Notes



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: W KTC Farms B-35-36HC (PWB)



Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Scan limit is calculated on CENTRE to CENTRE distance
Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
W KTC Farms B-35-36HC (PWB)	Nov-21-2017	Nov-22-2017

Well		
Name	Government ID	Last Revised
W KTC Farms B-35-36HC		Nov-21-2017

Slot						
Name	Latitude	Longitude	Grid Northing	Grid Easting	North	East
KTC Farms B-35-36HC	40.53805600	-104.75255900	1439730.1114	3207743.6691	14.93S	0.40E

Installation						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Easting	Northing	Coord System Name	North Alignment
KTC Farms Pad	40.53809700	-104.75256000	3207743.2653	1439745.0452	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
W Wilson 1-35	31.36	8341.93	8341.93	-54.94	8341.93	0.36	8341.93
W SRC Haythorn 31-36D	171.80	15806.15	15806.15	-193.86	15806.15	0.47	15806.15
W KTC Farms C-35-36HN	183.06	17458.95	17458.95	-513.72	17461.45	0.26	17461.45
W SRC TK 21 -36D	188.84	14729.55	14729.55	-135.30	14729.55	0.58	14729.55
W SRC TK 11-36D	195.17	13096.99	13096.99	-67.40	13099.15	0.74	13099.15
W KTC Farms A-35-36HN	220.76	7521.72	17461.45	-356.26	17461.45	0.38	17461.45
W SRC Haythorn 41-36D	227.77	17315.03	17314.20	-191.67	17315.03	0.54	17315.03
W KTC Farms BA-35-36HN	233.43	7521.72	7521.72	82.81	17461.45	1.43	17461.45
W Wilson 35-21	409.13	9004.45	9004.45	301.73	9014.50	3.80	9047.31
W KTC Farms D-35-36HN	513.66	7521.72	17453.60	-216.75	17461.45	0.71	17461.45
W KTC Farms E-35-36HC	658.04	7521.72	7521.72	-113.80	17461.45	0.85	17461.45
W KTC Farms EA-35-36HN	741.16	7521.72	7521.72	21.40	17461.45	1.03	17461.45
W KTC Farms F-35-36HN	825.46	7521.72	17447.59	58.14	17461.45	1.08	17461.45
W SRC Haythorn 36CD	927.52	16532.23	16532.23	539.49	16560.43	2.39	16576.84

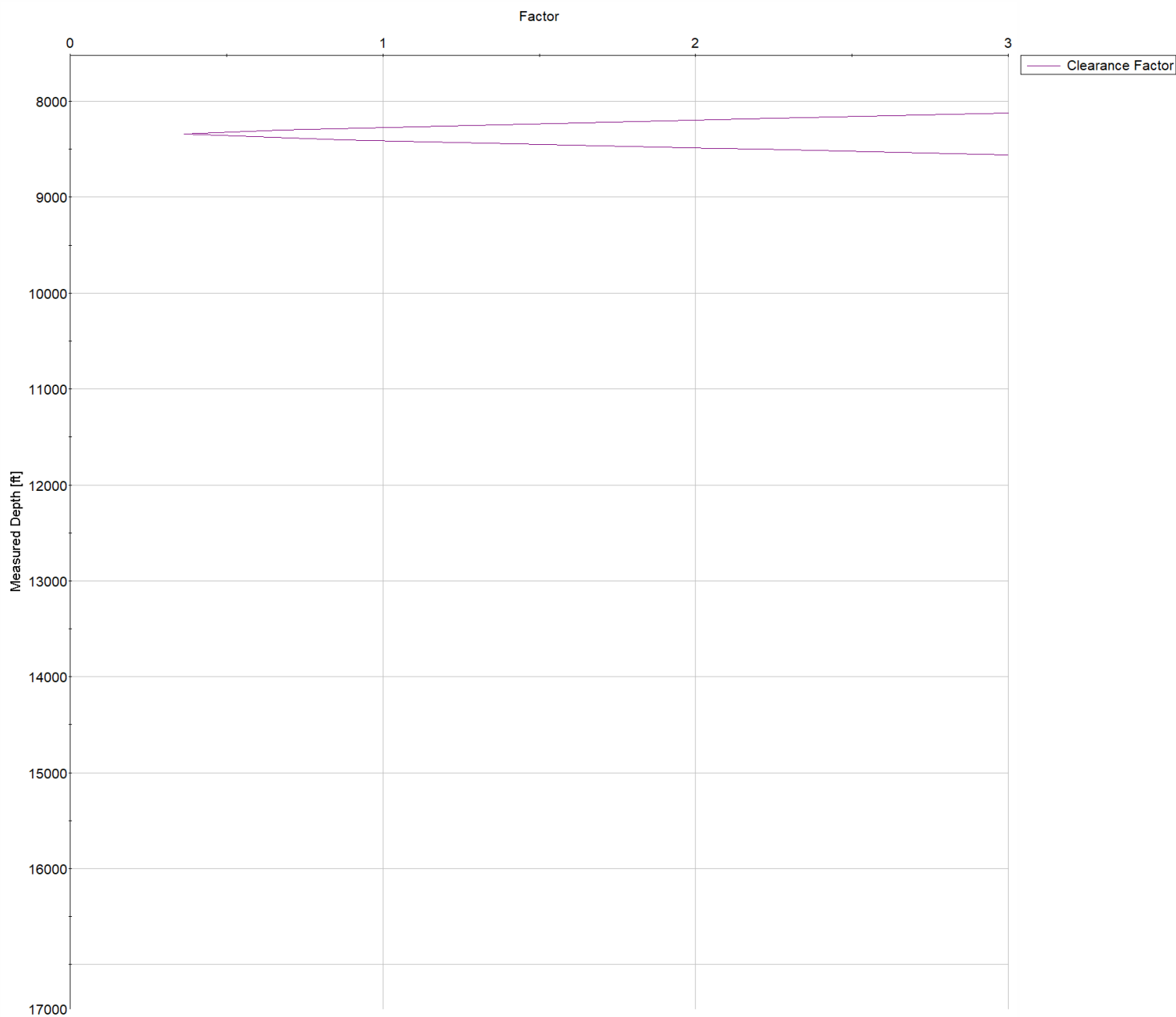
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Prepared by Microsoft
Date Printed: 14-May-2018

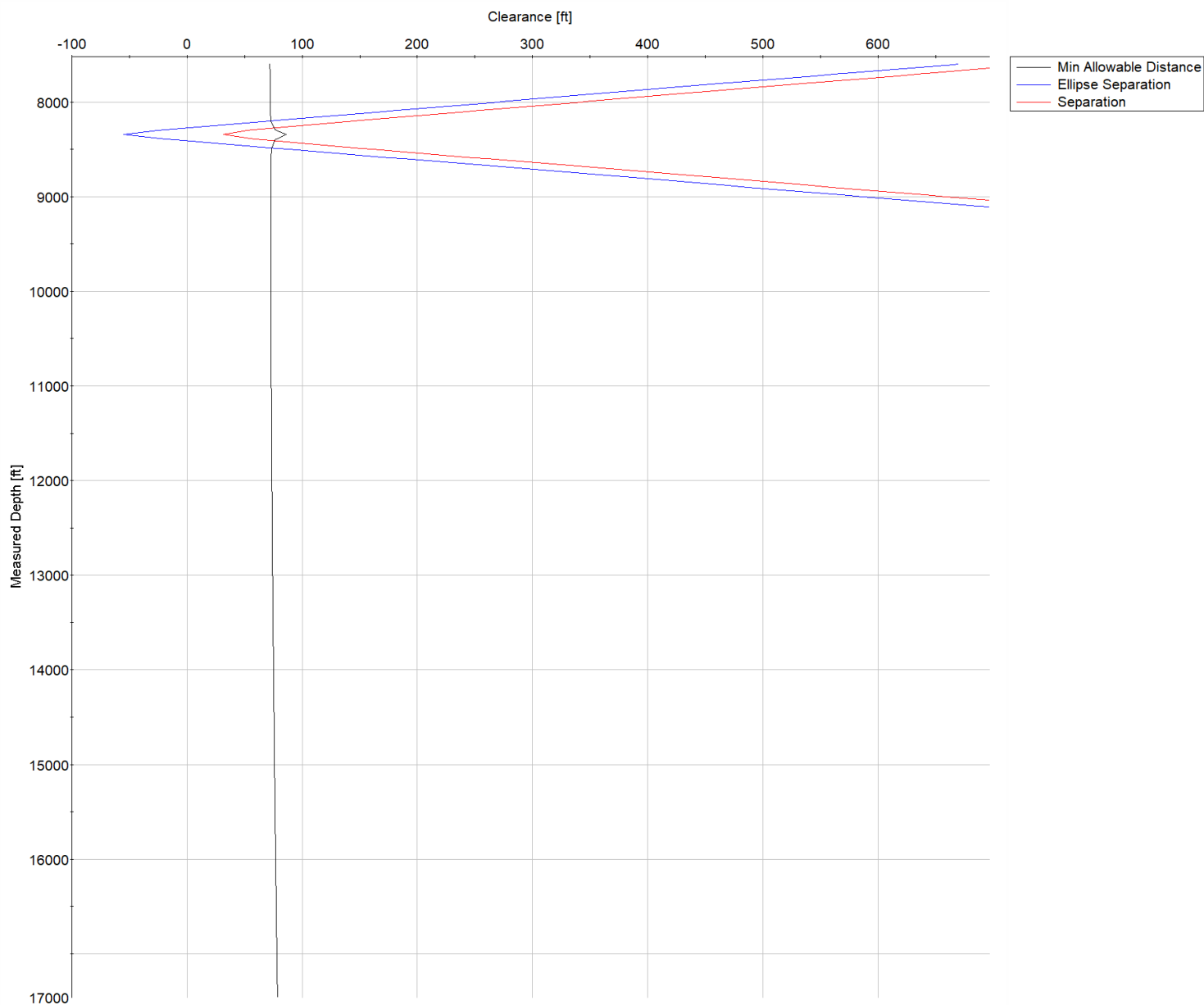


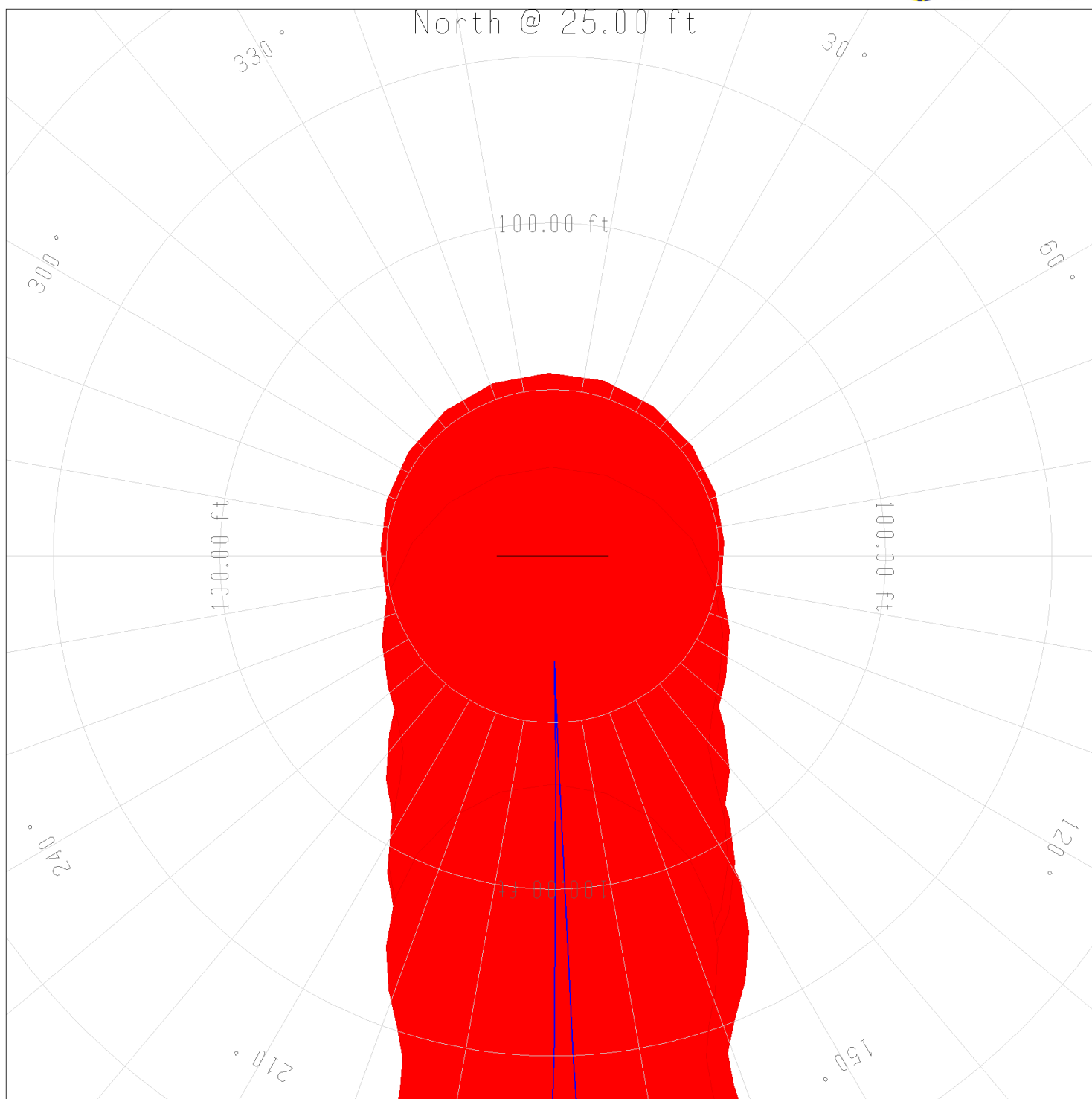
SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: W KTC Farms B-35-36HC (PWB)



Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
W Noffsinger 35-15	991.39	11223.20	11223.20	803.18	11261.88	5.23	11327.49
W SRC TK 36AD	993.28	13814.68	13814.68	708.39	13837.34	3.48	13886.55
W Wilson 35-25	998.76	8703.08	8703.08	901.19	8735.63	9.91	8932.48
W KTC Farms G-35-36HN	1162.56	7521.72	17442.20	395.66	17461.45	1.51	17461.45
W KTC Farms H-35-36HC	1318.29	7521.72	17438.75	544.34	17461.45	1.70	17461.45
W KTC Farms HA-35-36HN	1382.23	7521.72	7521.72	626.56	17461.45	1.82	17461.45
W KTC Farms I-35-36HN	1486.84	7521.72	17436.32	714.04	17461.45	1.92	17461.45
W Wilson 35-24	1610.07	9162.14	9162.14	1496.64	9211.35	13.31	9637.86
W SRC TK 12-36D	1655.21	13110.50	13110.50	1391.91	13148.36	6.25	13263.19
W SRC Haythorn 42-36D	1688.76	17278.24	17278.24	1269.26	17347.83	4.00	17446.26
W SRC TK 22-36D	1698.33	14439.91	14439.91	1386.64	14509.91	5.38	14673.95
W SRC Haythorn 32-36D	1730.46	15693.90	15693.90	1366.51	15740.22	4.74	15822.24
W KTC Farms J-35-36HN	1820.39	7521.72	17430.89	1048.21	17461.45	2.36	17461.45
W Noffsinger 35-13	1836.73	10295.55	10295.55	1682.25	10359.65	11.36	10753.35
W KTC Farms K-35-36HC	1966.51	7521.72	17400.00	1203.00	17461.45	2.55	17461.45
W KTC Farms KA-35-36HN	2037.45	7521.72	17400.00	1267.48	17461.45	2.64	17461.45
W KTC Farms L-35-36HN	2118.44	7521.72	17424.88	1369.57	17461.45	2.76	17461.45
W Renfroe 42-1-36CHZ	2291.00	17222.85	17222.85	1867.62	17265.81	5.38	17461.45
W Renfroe C-1-36NHZ	2318.26	16547.20	16547.20	1925.07	16626.05	5.80	16986.94
W Renfroe 42-1-36NHZ	2323.01	16906.74	16906.74	1915.49	16970.54	5.64	17265.81
W Renfroe 32-1-36CHZ	2355.43	16134.16	16134.16	1974.73	16232.35	6.03	16642.45
W Renfroe 32-1-36NHZ	2363.74	15700.00	15700.00	1996.60	15822.24	6.22	16265.16







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