

BAYSWATER E & P, LLC

Location	Weld County, CO	Slot	Calvary Farms G-20-21HN
Field	WATTENBERG	Well	W Calvary Farms G-20-21HN
Installation	Calvary Farms Pad	Wellbore	W Calvary Farms G-20-21HN (PWB)

N

GRID

Scale 1 cm = 800 ft

East (Feet) ->

-1600 0 1600 3200 4800 6400 8000 9600 11200 12800

Surface 0.00 N 0.00 E

Calvary Farms G-20-21HN - BH

Calvary Farms G-20-21HN - EP

Calvary Farms G-20-21HN - MP

W Calvary Farms G-20-21HN (PWB)

Scale 1 cm = 800 ft
1600
0
-1600
< North (Feet) | South (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	125.39	1025.00	S 0.00	W 0.00	0.00	0.00
End of Build	1223.09	3.96	125.39	1222.93	S 3.96	E 5.58	2.00	5.70
End of Hold	6615.81	3.96	125.39	6602.76	S 219.74	E 309.32	0.00	316.02
Target Calvar...N - EP	7486.53	90.30	90.00	7143.00	S 241.56	E 884.38	10.00	891.48
Target Calvar...N - MP	12237.16	90.30	90.00	7118.00	S 241.86	E 5634.95	0.00	5639.75
End of Drop/Turn	12286.91	90.30	91.00	7117.74	S 242.29	E 5684.69	2.00	5689.48
T.D. & Target Cal... BH	17019.28	90.30	91.00	7093.00	S 324.77	E 10416.28	0.00	10421.34

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 - 3.96 Inc, 1223.09 MD, 1222.93 TVD, 5.70 VS

End of Hold - 3.96 Inc, 6615.81 MD, 6602.76 TVD, 316.02 VS

Calvary Farms G-20-21HN - EP

S/C Kick off Point - 90.30 Inc, 7486.53 MD, 7143.00 TVD, 891.48 VS

3DJ Kick off Point - 90.30 Inc, 12237.16 MD, 7118.00 TVD, 5639.75 VS

End of Drop/Turn - 90.30 Inc, 12286.91 MD, 7117.74 TVD, 5689.48 VS

Calvary Farms G-20-21HN - MP

Calvary Farms G-20-21HN - BH

T.D. & End of Hold - 7093.00 TVD, 324.77 S 10416.28 E

Created by	admin
Date plotted	13-Jun-2018
Plot reference is W Calvary Farms G-20-21HN (PWB).	
Ref wellpath is W Calvary Farms G-20-21HN (PWP#1).	
Coordinates are in Feet reference Calvary Farms G-20-21HN.	
True Vertical Depths are reference Rig Datum.	
Measured Depths are reference Rig Datum.	
Rig Datum: Planned Datum #1	
Rig Datum to Mean Sea Level: 4903.00 ft.	
Plot North is aligned to GRID North.	

W Calvary Farms G-20-21HN (PWB)

Scale 1 cm = 400 ft
-800
-0
800
1600
2400
3200
4000
4800
5600
6400
7200
8000

<- True Vertical Depth (Feet)

-800 -0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000 8800 9600 10400 11200

Scale 1 cm = 400 ft

Vertical Section (Feet) ->

Azimuth 91.79 with reference 0.00 N, 0.00 E from Calvary Farms G-20-21HN



SYSDRILL
Well Design Combined Report
Wellbore: W Calvary Farms G-20-21HN (PWB)



Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Calvary Farms G-20-21HN	40.56435500	-104.69802200	1449443.1421	3222814.6280	119.89S	2.81W	0.00

Declination

Date	Source	Time
Dec-4-2017	EMM-2015 [2000.0-2020.0]	08:13

Installation Details

Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Calvary Farms Pad	40.56468400	-104.69800800	1449563.0309	3222817.4336	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	1449443.14	3222814.63
1025.00	0.00	125.390	1025.00	0.00N	0.00E	==>	0.00	1449443.14	3222814.63
1223.09	3.96	125.390	1222.93	3.96S	5.58E	2.00	5.70	1449439.18	3222820.21
6615.81	3.96	125.390	6602.76	219.74S	309.32E	==>	316.02	1449223.41	3223123.94
7486.53	90.30	90.000	7143.00	241.56S	884.38E	10.00	891.48	1449201.59	3223698.98
12237.16	90.30	90.000	7118.00	241.86S	5634.95E	==>	5639.75	1449201.29	3228449.40
12286.91	90.30	91.000	7117.74	242.29S	5684.69E	2.00	5689.48	1449200.86	3228499.15
17019.28	90.30	91.000	7093.00	324.77S	10416.28E	==>	10421.34	1449118.39	3233230.60

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	125.390	1099.99	0.57S	0.80E	2.00	0.82	
1200.00	3.50	125.390	1199.89	3.09S	4.36E	2.00	4.45	
1300.00	3.96	125.390	1299.66	7.04S	9.91E	==>	10.13	
1400.00	3.96	125.390	1399.42	11.04S	15.55E	==>	15.88	
1500.00	3.96	125.390	1499.18	15.04S	21.18E	==>	21.64	
1600.00	3.96	125.390	1598.94	19.05S	26.81E	==>	27.39	
1700.00	3.96	125.390	1698.70	23.05S	32.44E	==>	33.15	
1800.00	3.96	125.390	1798.46	27.05S	38.08E	==>	38.90	
1900.00	3.96	125.390	1898.22	31.05S	43.71E	==>	44.65	
2000.00	3.96	125.390	1997.99	35.05S	49.34E	==>	50.41	
2100.00	3.96	125.390	2097.75	39.05S	54.97E	==>	56.16	
2200.00	3.96	125.390	2197.51	43.05S	60.61E	==>	61.92	
2300.00	3.96	125.390	2297.27	47.05S	66.24E	==>	67.67	
2400.00	3.96	125.390	2397.03	51.06S	71.87E	==>	73.43	
2500.00	3.96	125.390	2496.79	55.06S	77.50E	==>	79.18	
2600.00	3.96	125.390	2596.55	59.06S	83.13E	==>	84.93	
2700.00	3.96	125.390	2696.31	63.06S	88.77E	==>	90.69	
2800.00	3.96	125.390	2796.07	67.06S	94.40E	==>	96.44	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4903.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 91.790 degrees
Bottom hole distance is 10421.34 Feet on azimuth 91.79 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Microsoft
Date Printed: 12-Jun-2018



SYSDRILL
Well Design Combined Report
Wellbore: W Calvary Farms G-20-21HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
2900.00	3.96	125.390	2895.84	71.06S	100.03E	==>	102.20	
3000.00	3.96	125.390	2995.60	75.06S	105.66E	==>	107.95	
3100.00	3.96	125.390	3095.36	79.06S	111.30E	==>	113.71	
3200.00	3.96	125.390	3195.12	83.07S	116.93E	==>	119.46	
3300.00	3.96	125.390	3294.88	87.07S	122.56E	==>	125.22	
3400.00	3.96	125.390	3394.64	91.07S	128.19E	==>	130.97	
3500.00	3.96	125.390	3494.40	95.07S	133.83E	==>	136.72	
3600.00	3.96	125.390	3594.16	99.07S	139.46E	==>	142.48	
3700.00	3.96	125.390	3693.92	103.07S	145.09E	==>	148.23	
3800.00	3.96	125.390	3793.68	107.07S	150.72E	==>	153.99	
3900.00	3.96	125.390	3893.45	111.07S	156.36E	==>	159.74	
4000.00	3.96	125.390	3993.21	115.08S	161.99E	==>	165.50	
4100.00	3.96	125.390	4092.97	119.08S	167.62E	==>	171.25	
4200.00	3.96	125.390	4192.73	123.08S	173.25E	==>	177.01	
4300.00	3.96	125.390	4292.49	127.08S	178.89E	==>	182.76	
4400.00	3.96	125.390	4392.25	131.08S	184.52E	==>	188.51	
4500.00	3.96	125.390	4492.01	135.08S	190.15E	==>	194.27	
4600.00	3.96	125.390	4591.77	139.08S	195.78E	==>	200.02	
4700.00	3.96	125.390	4691.53	143.08S	201.42E	==>	205.78	
4800.00	3.96	125.390	4791.29	147.09S	207.05E	==>	211.53	
4900.00	3.96	125.390	4891.06	151.09S	212.68E	==>	217.29	
5000.00	3.96	125.390	4990.82	155.09S	218.31E	==>	223.04	
5100.00	3.96	125.390	5090.58	159.09S	223.95E	==>	228.80	
5200.00	3.96	125.390	5190.34	163.09S	229.58E	==>	234.55	
5300.00	3.96	125.390	5290.10	167.09S	235.21E	==>	240.30	
5400.00	3.96	125.390	5389.86	171.09S	240.84E	==>	246.06	
5500.00	3.96	125.390	5489.62	175.09S	246.48E	==>	251.81	
5600.00	3.96	125.390	5589.38	179.09S	252.11E	==>	257.57	
5700.00	3.96	125.390	5689.14	183.10S	257.74E	==>	263.32	
5800.00	3.96	125.390	5788.91	187.10S	263.37E	==>	269.08	
5900.00	3.96	125.390	5888.67	191.10S	269.01E	==>	274.83	
6000.00	3.96	125.390	5988.43	195.10S	274.64E	==>	280.58	
6100.00	3.96	125.390	6088.19	199.10S	280.27E	==>	286.34	
6200.00	3.96	125.390	6187.95	203.10S	285.90E	==>	292.09	
6300.00	3.96	125.390	6287.71	207.10S	291.54E	==>	297.85	
6400.00	3.96	125.390	6387.47	211.10S	297.17E	==>	303.60	
6500.00	3.96	125.390	6487.23	215.11S	302.80E	==>	309.36	
6600.00	3.96	125.390	6586.99	219.11S	308.43E	==>	315.11	
6700.00	11.87	101.010	6686.11	223.08S	320.21E	10.00	327.01	
6800.00	21.76	95.780	6781.71	226.93S	348.83E	10.00	355.73	
6900.00	31.72	93.730	6870.91	230.51S	393.62E	10.00	400.61	
7000.00	41.70	92.590	6950.97	233.74S	453.24E	10.00	460.30	
7100.00	51.69	91.830	7019.48	236.51S	525.86E	10.00	532.97	
7200.00	61.67	91.250	7074.34	238.73S	609.28E	10.00	616.43	
7300.00	71.66	90.780	7113.89	240.34S	700.98E	10.00	708.13	
7400.00	81.66	90.350	7136.94	241.29S	798.15E	10.00	805.28	
7500.00	90.30	90.000	7142.93	241.56S	897.85E	==>	904.95	
7600.00	90.30	90.000	7142.40	241.56S	997.85E	==>	1004.90	
7700.00	90.30	90.000	7141.88	241.57S	1097.85E	==>	1104.85	
7800.00	90.30	90.000	7141.35	241.58S	1197.85E	==>	1204.80	
7900.00	90.30	90.000	7140.82	241.58S	1297.85E	==>	1304.75	
8000.00	90.30	90.000	7140.30	241.59S	1397.85E	==>	1404.70	
8100.00	90.30	90.000	7139.77	241.60S	1497.85E	==>	1504.65	
8200.00	90.30	90.000	7139.25	241.60S	1597.84E	==>	1604.60	
8300.00	90.30	90.000	7138.72	241.61S	1697.84E	==>	1704.55	
8400.00	90.30	90.000	7138.19	241.61S	1797.84E	==>	1804.50	
8500.00	90.30	90.000	7137.67	241.62S	1897.84E	==>	1904.45	
8600.00	90.30	90.000	7137.14	241.63S	1997.84E	==>	2004.40	
8700.00	90.30	90.000	7136.61	241.63S	2097.84E	==>	2104.35	
8800.00	90.30	90.000	7136.09	241.64S	2197.84E	==>	2204.30	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4903.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 91.790 degrees
Bottom hole distance is 10421.34 Feet on azimuth 91.79 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Microsoft
Date Printed: 12-Jun-2018



SYSDRILL
Well Design Combined Report
Wellbore: W Calvary Farms G-20-21HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
8900.00	90.30	90.000	7135.56	241.65S	2297.83E	==>	2304.25	
9000.00	90.30	90.000	7135.04	241.65S	2397.83E	==>	2404.20	
9100.00	90.30	90.000	7134.51	241.66S	2497.83E	==>	2504.15	
9200.00	90.30	90.000	7133.98	241.66S	2597.83E	==>	2604.10	
9300.00	90.30	90.000	7133.46	241.67S	2697.83E	==>	2704.05	
9400.00	90.30	90.000	7132.93	241.68S	2797.83E	==>	2804.00	
9500.00	90.30	90.000	7132.40	241.68S	2897.83E	==>	2903.95	
9600.00	90.30	90.000	7131.88	241.69S	2997.82E	==>	3003.90	
9700.00	90.30	90.000	7131.35	241.70S	3097.82E	==>	3103.85	
9800.00	90.30	90.000	7130.83	241.70S	3197.82E	==>	3203.80	
9900.00	90.30	90.000	7130.30	241.71S	3297.82E	==>	3303.75	
10000.00	90.30	90.000	7129.77	241.72S	3397.82E	==>	3403.70	
10100.00	90.30	90.000	7129.25	241.72S	3497.82E	==>	3503.65	
10200.00	90.30	90.000	7128.72	241.73S	3597.82E	==>	3603.60	
10300.00	90.30	90.000	7128.19	241.73S	3697.82E	==>	3703.55	
10400.00	90.30	90.000	7127.67	241.74S	3797.81E	==>	3803.50	
10500.00	90.30	90.000	7127.14	241.75S	3897.81E	==>	3903.45	
10600.00	90.30	90.000	7126.62	241.75S	3997.81E	==>	4003.40	
10700.00	90.30	90.000	7126.09	241.76S	4097.81E	==>	4103.35	
10800.00	90.30	90.000	7125.56	241.77S	4197.81E	==>	4203.30	
10900.00	90.30	90.000	7125.04	241.77S	4297.81E	==>	4303.25	
11000.00	90.30	90.000	7124.51	241.78S	4397.81E	==>	4403.20	
11100.00	90.30	90.000	7123.98	241.78S	4497.80E	==>	4503.15	
11200.00	90.30	90.000	7123.46	241.79S	4597.80E	==>	4603.10	
11300.00	90.30	90.000	7122.93	241.80S	4697.80E	==>	4703.05	
11400.00	90.30	90.000	7122.41	241.80S	4797.80E	==>	4803.00	
11500.00	90.30	90.000	7121.88	241.81S	4897.80E	==>	4902.96	
11600.00	90.30	90.000	7121.35	241.82S	4997.80E	==>	5002.91	
11700.00	90.30	90.000	7120.83	241.82S	5097.80E	==>	5102.86	
11800.00	90.30	90.000	7120.30	241.83S	5197.79E	==>	5202.81	
11900.00	90.30	90.000	7119.77	241.83S	5297.79E	==>	5302.76	
12000.00	90.30	90.000	7119.25	241.84S	5397.79E	==>	5402.71	
12100.00	90.30	90.000	7118.72	241.85S	5497.79E	==>	5502.66	
12200.00	90.30	90.000	7118.20	241.85S	5597.79E	==>	5602.61	
12300.00	90.30	91.000	7117.67	242.52S	5697.78E	==>	5702.57	
12400.00	90.30	91.000	7117.15	244.26S	5797.77E	==>	5802.56	
12500.00	90.30	91.000	7116.63	246.00S	5897.75E	==>	5902.55	
12600.00	90.30	91.000	7116.10	247.75S	5997.73E	==>	6002.54	
12700.00	90.30	91.000	7115.58	249.49S	6097.72E	==>	6102.53	
12800.00	90.30	91.000	7115.06	251.23S	6197.70E	==>	6202.52	
12900.00	90.30	91.000	7114.53	252.98S	6297.68E	==>	6302.51	
13000.00	90.30	91.000	7114.01	254.72S	6397.67E	==>	6402.50	
13100.00	90.30	91.000	7113.49	256.46S	6497.65E	==>	6502.49	
13200.00	90.30	91.000	7112.97	258.20S	6597.63E	==>	6602.48	
13300.00	90.30	91.000	7112.44	259.95S	6697.62E	==>	6702.47	
13400.00	90.30	91.000	7111.92	261.69S	6797.60E	==>	6802.45	
13500.00	90.30	91.000	7111.40	263.43S	6897.58E	==>	6902.44	
13600.00	90.30	91.000	7110.87	265.18S	6997.57E	==>	7002.43	
13700.00	90.30	91.000	7110.35	266.92S	7097.55E	==>	7102.42	
13800.00	90.30	91.000	7109.83	268.66S	7197.53E	==>	7202.41	
13900.00	90.30	91.000	7109.31	270.40S	7297.52E	==>	7302.40	
14000.00	90.30	91.000	7108.78	272.15S	7397.50E	==>	7402.39	
14100.00	90.30	91.000	7108.26	273.89S	7497.48E	==>	7502.38	
14200.00	90.30	91.000	7107.74	275.63S	7597.47E	==>	7602.37	
14300.00	90.30	91.000	7107.22	277.37S	7697.45E	==>	7702.36	
14400.00	90.30	91.000	7106.69	279.12S	7797.44E	==>	7802.35	
14500.00	90.30	91.000	7106.17	280.86S	7897.42E	==>	7902.34	
14600.00	90.30	91.000	7105.65	282.60S	7997.40E	==>	8002.32	
14700.00	90.30	91.000	7105.12	284.35S	8097.39E	==>	8102.31	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4903.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 91.790 degrees
Bottom hole distance is 10421.34 Feet on azimuth 91.79 degrees from Wellhead
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Wellbore: W Calvary Farms G-20-21HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
14800.00	90.30	91.000	7104.60	286.09S	8197.37E	==>	8202.30	
14900.00	90.30	91.000	7104.08	287.83S	8297.35E	==>	8302.29	
15000.00	90.30	91.000	7103.56	289.57S	8397.34E	==>	8402.28	
15100.00	90.30	91.000	7103.03	291.32S	8497.32E	==>	8502.27	
15200.00	90.30	91.000	7102.51	293.06S	8597.30E	==>	8602.26	
15300.00	90.30	91.000	7101.99	294.80S	8697.29E	==>	8702.25	
15400.00	90.30	91.000	7101.46	296.55S	8797.27E	==>	8802.24	
15500.00	90.30	91.000	7100.94	298.29S	8897.25E	==>	8902.23	
15600.00	90.30	91.000	7100.42	300.03S	8997.24E	==>	9002.22	
15700.00	90.30	91.000	7099.90	301.77S	9097.22E	==>	9102.21	
15800.00	90.30	91.000	7099.37	303.52S	9197.20E	==>	9202.20	
15900.00	90.30	91.000	7098.85	305.26S	9297.19E	==>	9302.18	
16000.00	90.30	91.000	7098.33	307.00S	9397.17E	==>	9402.17	
16100.00	90.30	91.000	7097.81	308.74S	9497.15E	==>	9502.16	
16200.00	90.30	91.000	7097.28	310.49S	9597.14E	==>	9602.15	
16300.00	90.30	91.000	7096.76	312.23S	9697.12E	==>	9702.14	
16400.00	90.30	91.000	7096.24	313.97S	9797.10E	==>	9802.13	
16500.00	90.30	91.000	7095.71	315.72S	9897.09E	==>	9902.12	
16600.00	90.30	91.000	7095.19	317.46S	9997.07E	==>	10002.11	
16700.00	90.30	91.000	7094.67	319.20S	10097.05E	==>	10102.10	
16800.00	90.30	91.000	7094.15	320.94S	10197.04E	==>	10202.09	
16900.00	90.30	91.000	7093.62	322.69S	10297.02E	==>	10302.08	
17000.00	90.30	91.000	7093.10	324.43S	10397.00E	==>	10402.07	
17019.28	90.30	91.000	7093.00	324.77S	10416.28E	==>	10421.34	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4903.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 91.790 degrees
Bottom hole distance is 10421.34 Feet on azimuth 91.79 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Microsoft
Date Printed: 12-Jun-2018



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
Calvary Farms G-20-21HN - BH	324.77S	10416.28E	7093.00	40.56319900	-104.66054500	1449118.39	3233230.60
Calvary Farms G-20-21HN - EP	241.56S	884.38E	7143.00	40.56367000	-104.69484700	1449201.59	3223698.98
Calvary Farms G-20-21HN - MP	241.86S	5694.95E	7118.00	40.56354800	-104.67753400	1449201.29	3228509.40

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
594056	Planned	1500.00	1499.18	WdW Rate Gyro	Standard	
594055	Planned	17019.28	7093.00	ISCWSA MWD	Rev 4 + SAG + FLT	

Notes