



Actual Wellpath Report

No. 190H AWP - Final

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"Second Copy"



30-015-42145

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.190H SHL
Area	Eddy County, NM	Well	No.190H
Field	JRU NAD27	Wellbore	No. 190H AWB
Facility	JRU No.190H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.0
North Reference	Grid	User	Burnranj
Scale	0.999937	Report Generated	5/1/2014 at 10:59:44 AM
Convergence at slot	0.27° East	Database/Source file	WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP No.190H SHL_Final Surveys.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	656564.90	492869.00	32°21'14.376"N	103°49'34.759"W
Facility Reference Pt			656564.90	492869.00	32°21'14.376"N	103°49'34.759"W
Field Reference Pt			652495.44	494904.92	32°21'34.711"N	103°50'22.090"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.190H SHL (KB) to Facility Vertical Datum	22.00ft
Horizontal Reference Pt	Slot	Rig on No.190H SHL (KB) to Mean Sea Level	3347.00ft
Vertical Reference Pt	Rig on No.190H SHL (KB)	Rig on No.190H SHL (KB) to Mud Line at Slot (No.190H SHL)	22.00ft
MD Reference Pt	Rig on No.190H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.62°



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Facility	JRU No. 190H		

WELLPATH DATA (173 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
0.00†	0.000	254.650	0.00	0.00	0.00	0.00	656564.90	492869.00	0.00	
22.00	0.000	254.650	22.00	0.00	0.00	0.00	656564.90	492869.00	0.00	
75.00	1.200	254.650	75.00	0.54	-0.15	-0.54	656564.36	492868.85	2.26	
138.00	1.300	264.590	137.98	1.89	-0.39	-1.88	656563.02	492868.61	0.38	
228.00	0.410	332.250	227.97	3.05	-0.20	-3.05	656561.85	492868.80	1.34	
320.00	0.350	1.680	319.97	3.19	0.37	-3.19	656561.71	492869.37	0.22	
410.00	0.440	11.820	409.97	3.11	0.99	-3.12	656561.78	492869.98	0.13	
501.00	0.420	4.150	500.97	3.01	1.66	-3.02	656561.88	492870.66	0.07	
562.00	0.360	7.840	561.96	2.96	2.07	-2.98	656561.92	492871.07	0.11	
764.00	0.100	37.800	763.96	2.76	2.84	-2.78	656562.12	492871.84	0.14	
890.00	0.200	0.200	889.96	2.69	3.15	-2.71	656562.19	492872.15	0.11	
985.00	0.200	9.200	984.96	2.66	3.48	-2.69	656562.21	492872.48	0.03	
1175.00	0.070	229.000	1174.96	2.70	3.73	-2.72	656562.18	492872.73	0.14	
1365.00	0.200	229.000	1364.96	3.04	3.43	-3.06	656561.84	492872.43	0.07	
1555.00	0.300	123.100	1554.96	2.87	2.95	-2.89	656562.01	492871.94	0.21	
1745.00	0.900	235.000	1744.95	3.69	1.82	-3.70	656561.20	492870.82	0.55	
1935.00	0.800	210.200	1934.93	5.59	-0.18	-5.59	656559.31	492868.82	0.20	
2125.00	0.600	194.200	2124.92	6.51	-2.30	-6.50	656558.40	492866.70	0.15	
2315.00	0.700	182.100	2314.90	6.82	-4.42	-6.79	656558.11	492864.58	0.09	
2505.00	0.400	194.500	2504.90	7.04	-6.22	-7.00	656557.91	492862.78	0.17	
2695.00	0.600	114.300	2694.89	6.30	-7.27	-6.25	656558.65	492861.73	0.35	
2885.00	1.200	303.100	2884.88	7.06	-6.60	-7.01	656557.89	492862.40	0.94	
3075.00	0.300	266.600	3074.86	9.21	-5.54	-9.18	656555.72	492863.46	0.51	
3265.00	0.700	153.100	3264.86	9.19	-6.60	-9.15	656555.75	492862.40	0.46	
3455.00	1.200	161.700	3454.83	8.06	-9.53	-8.00	656556.90	492859.47	0.27	
3645.00	1.800	149.800	3644.77	5.97	-14.00	-5.87	656559.03	492855.01	0.35	
3808.00	0.900	128.500	3807.72	3.70	-17.01	-3.58	656561.32	492852.00	0.62	
3893.00	0.700	130.100	3892.71	2.78	-17.76	-2.66	656562.24	492851.25	0.24	
3988.00	0.400	85.800	3987.71	2.01	-18.10	-1.89	656563.01	492850.90	0.53	
4083.00	0.400	51.000	4082.70	1.42	-17.87	-1.30	656563.60	492851.13	0.25	
4178.00	0.900	359.600	4177.70	1.16	-16.92	-1.05	656563.85	492852.08	0.76	
4273.00	0.900	339.900	4272.69	1.41	-15.47	-1.31	656563.59	492853.53	0.32	
4463.00	0.400	335.100	4462.67	2.19	-13.47	-2.10	656562.80	492855.53	0.26	
4654.00	0.700	355.300	4653.67	2.56	-11.70	-2.48	656562.42	492857.30	0.18	
4844.00	0.800	350.200	4843.65	2.86	-9.24	-2.80	656562.10	492859.76	0.06	
5034.00	0.900	347.300	5033.63	3.40	-6.47	-3.35	656561.55	492862.53	0.06	
5224.00	0.900	348.500	5223.61	4.00	-3.56	-3.98	656560.92	492865.44	0.01	
5414.00	0.800	336.800	5413.58	4.80	-0.87	-4.80	656560.10	492868.13	0.11	
5604.00	0.900	349.900	5603.56	5.57	1.81	-5.58	656559.32	492870.81	0.11	
5795.00	0.900	350.300	5794.54	6.07	4.77	-6.10	656558.80	492873.77	0.00	
5985.00	0.800	346.900	5984.52	6.60	7.53	-6.65	656558.25	492876.53	0.06	
6175.00	0.700	348.900	6174.50	7.11	9.96	-7.18	656557.73	492878.96	0.05	
6365.00	0.700	312.200	6364.49	8.18	11.88	-8.26	656556.64	492880.88	0.23	
6555.00	0.700	289.800	6554.48	10.12	13.05	-10.21	656554.69	492882.05	0.14	
6746.00	0.500	287.000	6745.47	12.01	13.69	-12.11	656552.80	492882.69	0.11	



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Field	JRU NAD27	Wellbore	No. 190H AWP
Facility	JRU No. 190H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
6936.00	0.400	278.600	6935.46	13.46	14.03	-13.55	656551.35	492883.03	0.06	
7126.00	0.400	266.800	7125.45	14.78	14.10	-14.87	656550.03	492883.10	0.04	
7316.00	0.700	246.600	7315.45	16.51	13.60	-16.60	656548.30	492882.60	0.19	
7507.00	0.600	238.800	7506.43	18.44	12.62	-18.53	656546.38	492881.62	0.07	
7697.00	0.900	245.900	7696.42	20.66	11.49	-20.74	656544.16	492880.49	0.16	
7887.00	1.400	226.300	7886.38	23.72	9.28	-23.78	656541.12	492878.28	0.33	
8077.00	1.100	170.700	8076.34	25.12	5.88	-25.16	656539.74	492874.88	0.63	
8268.00	0.600	141.000	8267.32	24.21	3.29	-24.24	656540.67	492872.29	0.34	
8458.00	0.400	145.400	8457.31	23.22	1.97	-23.23	656541.67	492870.97	0.11	
8651.00	0.700	202.200	8650.30	23.29	0.33	-23.30	656541.61	492869.33	0.30	
8841.00	0.800	213.200	8840.29	24.47	-1.86	-24.46	656540.44	492867.14	0.09	
9031.00	0.700	212.900	9030.27	25.84	-3.94	-25.82	656539.08	492865.06	0.05	
9221.00	0.700	249.100	9220.26	27.57	-5.33	-27.53	656537.37	492863.67	0.23	
9411.00	1.200	341.200	9410.24	29.28	-3.86	-29.26	656535.64	492865.14	0.74	
9601.00	0.500	348.100	9600.22	30.08	-1.17	-30.07	656534.83	492867.83	0.37	
9791.00	0.900	62.500	9790.21	28.91	0.33	-28.92	656535.98	492869.33	0.48	
9981.00	0.500	93.400	9980.19	26.76	0.97	-26.77	656538.14	492869.97	0.28	
10139.00	0.600	74.400	10138.19	25.27	1.15	-25.28	656539.62	492870.15	0.13	
10171.00	0.800	114.600	10170.18	24.91	1.11	-24.92	656539.98	492870.11	1.61	
10202.00	0.400	127.700	10201.18	24.63	0.95	-24.63	656540.27	492869.95	1.36	
10234.00	0.800	255.800	10233.18	24.76	0.83	-24.76	656540.14	492869.83	3.42	
10266.00	2.600	270.700	10265.17	25.70	0.78	-25.70	656539.20	492869.78	5.75	
10298.00	4.300	276.600	10297.11	27.62	0.93	-27.62	656537.28	492869.93	5.42	
10329.00	6.000	278.600	10327.98	30.37	1.30	-30.38	656534.52	492870.30	5.51	
10361.00	8.200	278.900	10359.73	34.27	1.91	-34.29	656530.61	492870.91	6.88	
10393.00	10.400	277.700	10391.31	39.39	2.65	-39.41	656525.50	492871.65	6.90	
10425.00	12.800	276.300	10422.65	45.77	3.42	-45.79	656519.11	492872.42	7.55	
10456.00	14.900	278.100	10452.75	53.12	4.36	-53.15	656511.75	492873.36	6.91	
10488.00	17.200	280.500	10483.50	61.84	5.80	-61.88	656503.03	492874.80	7.48	
10520.00	18.500	278.800	10513.96	71.50	7.44	-71.55	656493.36	492876.44	4.38	
10551.00	21.900	278.800	10543.05	82.06	9.08	-82.12	656482.78	492878.08	10.97	
10583.00	24.300	276.000	10572.48	94.50	10.68	-94.57	656470.33	492879.68	8.25	
10614.00	26.500	275.500	10600.49	107.72	12.01	-107.80	656457.10	492881.01	7.13	
10646.00	29.000	275.600	10628.80	122.54	13.45	-122.63	656442.28	492882.45	7.81	
10678.00	32.300	274.500	10656.33	138.78	14.88	-138.88	656426.03	492883.88	10.46	
10710.00	35.100	273.800	10682.95	156.48	16.16	-156.59	656408.32	492885.16	8.83	
10741.00	38.100	271.200	10707.83	174.93	16.95	-175.05	656389.87	492885.95	10.89	
10773.00	41.100	269.500	10732.49	195.32	17.07	-195.44	656369.47	492886.07	9.97	
10805.00	44.400	269.200	10755.98	217.04	16.82	-217.16	656347.76	492885.82	10.33	
10836.00	47.900	268.500	10777.46	239.39	16.37	-239.50	656325.41	492885.37	11.41	
10868.00	51.300	269.100	10798.19	263.75	15.86	-263.86	656301.05	492884.86	10.72	
10900.00	55.100	269.500	10817.36	289.37	15.55	-289.48	656275.44	492884.55	11.92	
10931.00	58.200	269.900	10834.40	315.26	15.41	-315.37	656249.55	492884.41	10.06	
10963.00	63.400	272.100	10850.01	343.18	15.92	-343.29	656221.63	492884.91	17.32	
10995.00	68.000	271.700	10863.17	372.31	16.88	-372.43	656192.49	492885.88	14.42	



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Field	JRU NAD27	Wellbore	No. 190H AWB
Facility	JRU No. 190H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
11027.00	72.600	271.200	10873.96	402.41	17.64	-402.54	656162.39	492886.64	14.45	
11058.00	73.800	271.200	10882.92	432.08	18.26	-432.21	656132.72	492887.26	3.87	
11073.00	74.000	271.500	10887.08	446.48	18.60	-446.62	656118.31	492887.60	2.34	
11175.00	77.500	272.100	10912.18	545.26	21.71	-545.41	656019.52	492890.71	3.48	
11192.00	79.000	270.500	10915.64	561.89	22.09	-562.05	656002.88	492891.09	12.76	
11224.00	82.200	269.900	10920.87	593.46	22.20	-593.62	655971.32	492891.20	10.17	
11256.00	85.100	268.900	10924.41	625.26	21.86	-625.42	655939.52	492890.86	9.58	
11288.00	88.400	268.400	10926.22	657.20	21.11	-657.35	655907.59	492890.11	10.43	
11319.00	90.000	267.900	10926.65	688.18	20.11	-688.33	655876.61	492889.11	5.41	
11351.00	90.200	268.200	10926.60	720.17	19.02	-720.31	655844.63	492888.02	1.13	
11447.00	90.500	268.400	10926.01	816.14	16.17	-816.27	655748.69	492885.17	0.38	
11542.00	90.500	268.200	10925.18	911.11	13.35	-911.22	655653.74	492882.35	0.21	
11638.00	90.700	268.000	10924.18	1007.08	10.17	-1007.16	655557.80	492879.17	0.29	
11733.00	91.400	268.200	10922.44	1102.03	7.02	-1102.10	655462.88	492876.02	0.77	
11829.00	91.000	269.600	10920.43	1197.99	5.18	-1198.05	655366.92	492874.18	1.52	
11924.00	91.500	269.700	10918.35	1292.97	4.60	-1293.03	655271.95	492873.60	0.54	
12020.00	90.100	270.000	10917.01	1388.96	4.35	-1389.02	655175.97	492873.35	1.49	
12115.00	90.500	270.100	10916.51	1483.95	4.43	-1484.02	655080.98	492873.43	0.43	
12211.00	90.800	270.000	10915.43	1579.95	4.52	-1580.01	654984.99	492873.52	0.33	
12307.00	91.000	269.500	10913.92	1675.93	4.10	-1676.00	654889.01	492873.10	0.56	
12402.00	91.100	268.700	10912.18	1770.91	2.60	-1770.97	654794.05	492871.60	0.85	
12498.00	91.100	268.400	10910.33	1866.88	0.18	-1866.92	654698.10	492869.18	0.31	
12593.00	91.100	267.400	10908.51	1961.82	-3.30	-1961.84	654603.19	492865.70	1.05	
12689.00	91.000	269.000	10906.75	2057.77	-6.32	-2057.77	654507.26	492862.68	1.67	
12784.00	91.400	268.700	10904.76	2152.74	-8.23	-2152.73	654412.31	492860.78	0.53	
12880.00	90.100	268.600	10903.50	2248.71	-10.49	-2248.69	654316.35	492858.51	1.36	
12975.00	90.300	268.600	10903.17	2343.70	-12.81	-2343.66	654221.39	492856.19	0.21	
13071.00	90.800	268.800	10902.25	2439.68	-14.99	-2439.63	654125.42	492854.02	0.56	
13166.00	91.100	268.700	10900.68	2534.66	-17.06	-2534.60	654030.47	492851.94	0.33	
13262.00	91.400	268.400	10898.58	2630.62	-19.49	-2630.54	653934.53	492849.51	0.44	
13357.00	90.700	268.100	10896.84	2725.57	-22.39	-2725.48	653839.59	492846.61	0.80	
13453.00	89.500	269.400	10896.67	2821.56	-24.48	-2821.46	653743.63	492844.52	1.84	
13548.00	88.800	269.100	10898.08	2916.54	-25.72	-2916.44	653648.65	492843.28	0.80	
13644.00	90.200	269.500	10898.92	3012.54	-26.90	-3012.42	653552.67	492842.10	1.52	
13739.00	90.300	269.200	10898.51	3107.53	-27.98	-3107.42	653457.68	492841.03	0.33	
13835.00	90.700	269.600	10897.67	3203.53	-28.98	-3203.41	653361.70	492840.02	0.59	
13930.00	90.700	269.700	10896.51	3298.52	-29.56	-3298.40	653266.71	492839.44	0.11	
14026.00	90.700	269.300	10895.34	3394.51	-30.40	-3394.39	653170.73	492838.60	0.42	
14121.00	91.000	269.500	10893.93	3489.50	-31.39	-3489.37	653075.75	492837.61	0.38	
14217.00	91.800	269.600	10891.58	3585.47	-32.15	-3585.34	652979.79	492836.86	0.84	
14313.00	90.300	270.700	10889.82	3681.45	-31.90	-3681.32	652883.82	492837.11	1.94	
14408.00	90.300	270.600	10889.32	3776.43	-30.82	-3776.31	652788.83	492838.18	0.11	
14504.00	90.700	270.500	10888.49	3872.42	-29.90	-3872.30	652692.85	492839.11	0.43	
14599.00	90.300	270.000	10887.66	3967.41	-29.48	-3967.30	652597.86	492839.52	0.67	
14695.00	90.500	269.900	10886.99	4063.40	-29.57	-4063.30	652501.87	492839.44	0.23	



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Operator	BOPCO, LP	Slot	No.190H SHL
Area	Eddy County, NM	Well	No.190H
Field	JRU NAD27	Wellbore	No. 190H AWB
Facility	JRU No.190H		

WELLPATH DATA (173 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
14790.00	90.700	269.300	10885.99	4158.40	-30.23	-4158.29	652406.88	492838.77	0.67	
14886.00	91.300	269.200	10884.32	4254.38	-31.49	-4254.26	652310.91	492837.52	0.63	
14981.00	90.300	269.000	10882.99	4349.37	-32.98	-4349.24	652215.94	492836.02	1.07	
15077.00	90.600	269.400	10882.24	4445.36	-34.32	-4445.23	652119.96	492834.68	0.52	
15172.00	91.000	269.000	10880.91	4540.35	-35.64	-4540.21	652024.98	492833.36	0.60	
15268.00	89.400	269.600	10880.57	4636.34	-36.82	-4636.20	651929.00	492832.19	1.78	
15363.00	89.300	269.100	10881.65	4731.33	-37.89	-4731.19	651834.02	492831.11	0.54	
15459.00	89.800	268.800	10882.41	4827.32	-39.65	-4827.17	651738.05	492829.35	0.61	
15555.00	90.000	269.000	10882.57	4923.32	-41.50	-4923.15	651642.07	492827.51	0.29	
15650.00	90.100	268.900	10882.49	5018.31	-43.24	-5018.13	651547.09	492825.77	0.13	
15745.00	89.500	268.500	10882.82	5113.30	-45.39	-5113.11	651452.12	492823.61	0.76	
15841.00	89.900	268.900	10883.33	5209.28	-47.57	-5209.08	651356.16	492821.43	0.59	
15937.00	91.100	269.700	10882.49	5305.27	-48.74	-5305.07	651260.18	492820.26	1.50	
16032.00	90.300	270.400	10881.33	5400.26	-48.66	-5400.06	651165.19	492820.34	1.12	
16128.00	90.500	270.000	10880.66	5496.26	-48.33	-5496.06	651069.20	492820.68	0.47	
16223.00	91.300	270.300	10879.16	5591.24	-48.08	-5591.04	650974.22	492820.93	0.90	
16318.00	89.700	269.900	10878.34	5686.23	-47.91	-5686.04	650879.23	492821.09	1.74	
16414.00	89.800	269.000	10878.75	5782.23	-48.83	-5782.03	650783.24	492820.17	0.94	
16509.00	89.700	268.300	10879.17	5877.21	-51.07	-5877.00	650688.28	492817.93	0.74	
16605.00	89.900	267.500	10879.50	5973.17	-54.59	-5972.94	650592.35	492814.42	0.86	
16701.00	89.600	267.700	10879.92	6069.11	-58.61	-6068.85	650496.44	492810.40	0.38	
16796.00	88.300	269.600	10881.66	6164.07	-60.85	-6163.80	650401.50	492808.16	2.42	
16892.00	88.200	269.500	10884.60	6260.02	-61.60	-6259.75	650305.55	492807.40	0.15	
16987.00	88.700	270.300	10887.17	6354.99	-61.77	-6354.72	650210.59	492807.24	0.99	
17083.00	88.900	270.000	10889.18	6450.96	-61.51	-6450.70	650114.62	492807.49	0.38	
17178.00	89.500	269.700	10890.50	6545.95	-61.76	-6545.69	650019.64	492807.24	0.71	
17274.00	90.000	269.200	10890.92	6641.95	-62.68	-6641.68	649923.65	492806.32	0.74	
17369.00	91.000	269.400	10890.09	6736.94	-63.84	-6736.67	649828.67	492805.16	1.07	
17465.00	89.900	270.200	10889.34	6832.94	-64.18	-6832.66	649732.68	492804.82	1.42	
17560.00	90.400	270.600	10889.09	6927.93	-63.52	-6927.66	649637.69	492805.49	0.67	
17656.00	91.300	270.800	10887.67	7023.90	-62.34	-7023.64	649541.71	492806.66	0.96	
17752.00	90.000	270.600	10886.58	7119.87	-61.17	-7119.63	649445.74	492807.83	1.37	
17847.00	90.100	270.600	10886.49	7214.86	-60.18	-7214.62	649350.75	492808.83	0.11	
17942.00	90.400	270.700	10886.08	7309.84	-59.10	-7309.61	649255.76	492809.91	0.33	
18038.00	91.500	270.800	10884.49	7405.81	-57.84	-7405.39	649159.79	492811.16	1.15	
18133.00	90.200	270.600	10883.08	7500.78	-56.68	-7500.57	649064.82	492812.32	1.38	
18224.00	90.800	270.600	10882.28	7591.76	-55.73	-7591.56	648973.83	492813.27	0.66	
18300.00	90.800	270.600	10881.22	7667.75	-54.93	-7667.55	648897.85	492814.07	0.00	



Actual Wellpath Report

No. 190H AWP - Final

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP	Slot	No.190H SHL
Area	Eddy County, NM	Well	No.190H
Field	JRU NAD27	Wellbore	No. 190H AWB
Facility	JRU No.190H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
JRU #190H PBHL		10881.00	-50.40	-7664.40	648901.00	492818.60	32°21'14.227"N	103°51'04.105"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 190H AWB - Ref Wellpath: No. 190H AWP - Final

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	562.00	Generic gyro - northseeking (Standard)	MS Gyros <75-562>	No. 190H AWB
562.00	18224.00	NaviTrak (Standard)	BHI NaviTrak <764-18224>	No. 190H AWB
18224.00	18300.00	Blind Drilling (std)	Projection to bit	No. 190H AWB