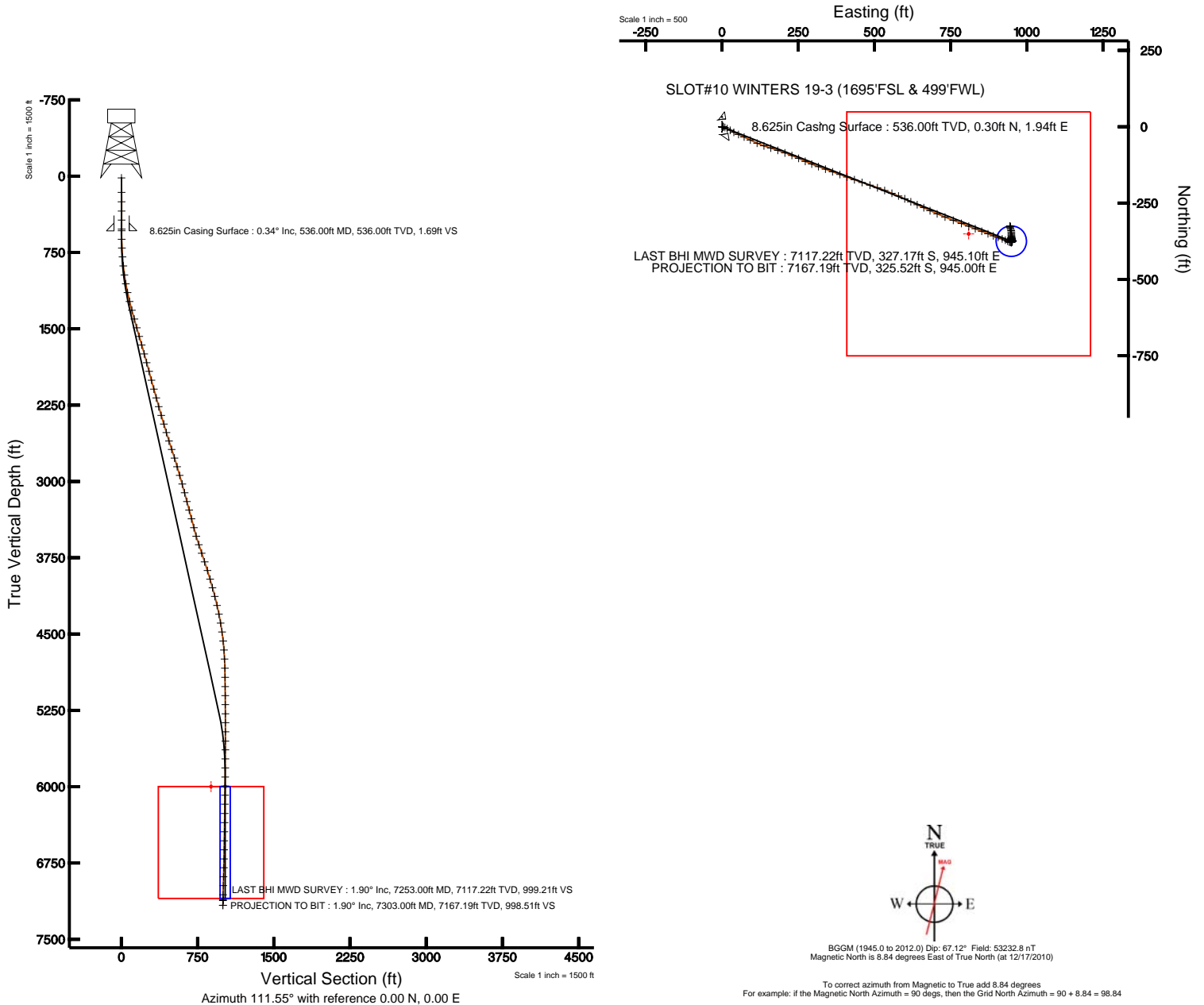




KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#10 WINTERS 19-3 (1695'FSL & 499'FWL)
Field: WELD COUNTY (KERR MCGEE) Well: WINTERS 19-3
Facility: SEC.03-T5N-R65W Wellbore: WINTERS 19-3 PWB

Plot reference wellpath is WINTERS 19-3 (REV-A.1) PWB	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
True vertical depths are referenced to XTREME 6 (RKB)	North Reference: True north
Measured depths are referenced to XTREME 6 (RKB)	Scale: True distance
XTREME 6 (RKB) to Mean Sea Level: 4648 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: SEC.03-T5N-R65W): 0 feet	Created by: cookdamm on 2/3/2011
Coordinates are in feet referenced to Slot	





Actual Wellpath Report

WINTERS 19-3 AWP

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 WINTERS 19-3 (1695'FSL & 499'FWL)
Area	COLORADO	Well	WINTERS 19-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WINTERS 19-3 AWB
Facility	SEC.03-T5N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Cookdanm
Scale	0.999962	Report Generated	2/3/2011 at 11:08:23 AM
Convergence at slot	0.54° East	Database/Source file	Denver Server/WINTERS_19-3_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-1546.88	-43.71	3234664.71	1399035.25	40°25'32.491"N	104°39'25.549"W
Facility Reference Pt			3234693.72	1400582.41	40°25'47.777"N	104°39'24.984"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 6 (RKB) to Facility Vertical Datum	4648.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4648.00ft
Vertical Reference Pt	XTREME 6 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	111.55°



Actual Wellpath Report

WINTERS 19-3 AWP

Page 2 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 WINTERS 19-3 (1695'FSL & 499'FWL)
Area	COLORADO	Well	WINTERS 19-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WINTERS 19-3 AWB
Facility	SEC.03-T5N-R65W		

WELLPATH DATA (84 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	99.200	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	99.200	16.00	0.00	0.00	0.00	0.00	
158.00	0.300	99.200	158.00	0.36	-0.06	0.37	0.21	
251.00	0.200	95.300	251.00	0.76	-0.11	0.77	0.11	
342.00	0.300	65.100	342.00	1.07	-0.03	1.14	0.18	
431.00	0.200	63.300	431.00	1.34	0.14	1.49	0.11	
520.00	0.300	73.900	520.00	1.63	0.27	1.86	0.12	
619.00	0.600	51.400	618.99	2.09	0.67	2.51	0.35	
706.00	2.600	110.400	705.96	4.29	0.27	4.72	2.70	
793.00	4.600	118.200	792.78	9.73	-2.07	9.64	2.36	
882.00	6.300	118.500	881.38	18.12	-6.09	17.08	1.91	
971.00	8.000	118.900	969.68	29.11	-11.41	26.79	1.91	
1060.00	9.800	118.200	1057.61	42.78	-17.98	38.89	2.03	
1148.00	12.100	112.600	1144.00	59.44	-25.07	54.01	2.88	
1237.00	14.000	115.400	1230.70	79.51	-33.27	72.35	2.25	
1326.00	15.900	116.100	1316.68	102.41	-43.25	93.02	2.14	
1416.00	15.700	114.000	1403.28	126.86	-53.63	115.22	0.67	
1505.00	15.400	108.300	1489.03	150.69	-62.24	137.44	1.75	
1594.00	15.600	107.600	1574.79	174.43	-69.57	160.06	0.31	
1682.00	16.400	109.000	1659.38	198.64	-77.19	183.09	1.01	
1773.00	15.400	110.100	1746.90	223.56	-85.53	206.58	1.15	
1862.00	15.900	110.100	1832.60	247.56	-93.78	229.13	0.56	
1951.00	15.900	115.400	1918.20	271.91	-103.20	251.59	1.63	
2041.00	14.500	114.300	2005.05	295.47	-113.12	273.00	1.59	
2132.00	15.100	111.100	2093.03	318.70	-122.08	294.44	1.11	
2221.00	15.500	109.700	2178.88	342.18	-130.26	316.45	0.61	
2311.00	15.900	110.400	2265.52	366.52	-138.61	339.33	0.49	
2400.00	17.000	110.400	2350.88	391.72	-147.39	362.95	1.24	
2489.00	16.400	109.700	2436.12	417.29	-156.16	386.97	0.71	
2576.00	16.600	110.400	2519.54	441.99	-164.64	410.19	0.32	
2663.00	17.800	109.700	2602.65	467.70	-173.45	434.35	1.40	
2750.00	18.000	109.000	2685.44	494.42	-182.31	459.58	0.34	
2839.00	17.800	109.400	2770.13	521.75	-191.31	485.42	0.26	
2928.00	16.000	108.700	2855.28	547.60	-199.76	509.87	2.04	
3017.00	17.400	111.500	2940.53	573.16	-208.57	533.87	1.81	
3106.00	15.800	111.500	3025.81	598.59	-217.89	557.53	1.80	
3195.00	14.500	111.900	3111.72	621.85	-226.48	579.14	1.47	
3284.00	14.900	117.100	3197.81	644.38	-235.85	599.66	1.55	
3371.00	14.600	115.700	3281.94	666.45	-245.70	619.50	0.54	
3460.00	15.600	112.600	3367.87	689.60	-255.17	640.66	1.44	
3550.00	14.900	116.800	3454.70	713.22	-265.03	662.16	1.45	
3637.00	15.600	114.700	3538.64	736.04	-274.97	682.77	1.02	
3724.00	18.400	112.600	3621.83	761.46	-285.13	706.08	3.29	
3812.00	18.700	111.500	3705.26	789.45	-295.64	732.03	0.52	
3902.00	19.100	111.500	3790.41	818.60	-306.33	759.15	0.44	



Actual Wellpath Report

WINTERS 19-3 AWP

Page 3 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 WINTERS 19-3 (1695'FSL & 499'FWL)
Area	COLORADO	Well	WINTERS 19-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WINTERS 19-3 AWP
Facility	SEC.03-T5N-R65W		

WELLPATH DATA (84 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3992.00	17.700	111.500	3875.80	847.01	-316.74	785.58	1.56	
4081.00	15.900	109.700	3961.00	872.73	-325.81	809.65	2.11	
4168.00	14.900	110.800	4044.88	895.82	-333.79	831.33	1.20	
4257.00	14.800	112.900	4130.91	918.63	-342.28	852.49	0.62	
4348.00	13.100	111.100	4219.22	940.56	-350.52	872.82	1.93	
4436.00	11.700	110.800	4305.16	959.46	-357.28	890.47	1.59	
4525.00	9.800	107.600	4392.60	976.04	-362.77	906.13	2.24	
4613.00	8.500	110.400	4479.48	990.01	-367.30	919.36	1.56	
4703.00	5.900	113.600	4568.76	1001.29	-371.47	929.84	2.92	
4792.00	4.400	117.100	4657.40	1009.26	-374.86	937.07	1.72	
4881.00	2.900	108.700	4746.22	1014.90	-377.14	942.24	1.78	
4971.00	1.600	102.400	4836.15	1018.42	-378.14	945.62	1.47	
5061.00	0.500	87.200	4926.13	1020.02	-378.39	947.24	1.25	
5152.00	0.600	85.300	5017.12	1020.81	-378.33	948.12	0.11	
5240.00	0.700	74.600	5105.12	1021.65	-378.15	949.09	0.18	
5329.00	0.700	70.000	5194.11	1022.49	-377.82	950.13	0.06	
5419.00	0.800	59.800	5284.10	1023.29	-377.32	951.19	0.18	
5506.00	0.500	40.800	5371.10	1023.79	-376.72	951.96	0.42	
5596.00	0.600	18.000	5461.10	1023.89	-375.98	952.36	0.26	
5687.00	0.900	12.000	5552.09	1023.74	-374.83	952.66	0.34	
5774.00	1.000	6.700	5639.08	1023.44	-373.40	952.89	0.15	
5862.00	0.800	330.500	5727.07	1022.76	-372.11	952.68	0.67	
5951.00	0.900	328.400	5816.06	1021.72	-370.97	952.00	0.12	
6041.00	1.000	349.900	5906.04	1020.74	-369.59	951.50	0.41	
6130.00	1.100	344.900	5995.03	1019.82	-368.00	951.14	0.15	
6219.00	1.300	353.700	6084.01	1018.84	-366.18	950.80	0.30	
6308.00	1.400	353.700	6172.98	1017.86	-364.09	950.57	0.11	
6399.00	1.800	350.500	6263.95	1016.61	-361.58	950.22	0.45	
6489.00	2.000	350.900	6353.90	1015.08	-358.63	949.73	0.22	
6579.00	2.200	359.700	6443.84	1013.63	-355.35	949.48	0.42	
6668.00	2.100	1.500	6532.78	1012.44	-352.02	949.51	0.14	
6757.00	2.600	358.600	6621.70	1011.09	-348.37	949.50	0.58	
6846.00	2.700	357.900	6710.61	1009.47	-344.26	949.38	0.12	
6933.00	2.600	348.100	6797.51	1007.56	-340.28	948.90	0.53	
7022.00	2.800	336.900	6886.41	1004.92	-336.30	947.63	0.63	
7109.00	2.500	343.500	6973.32	1002.25	-332.53	946.25	0.49	
7199.00	2.100	348.100	7063.25	1000.13	-329.03	945.36	0.49	
7253.00	1.900	356.500	7117.22	999.21	-327.17	945.10	0.66	LAST BHI MWD SURVEY
7303.00	1.900	356.500	7167.19	998.51	-325.52	945.00	0.00	PROJECTION TO BIT



Actual Wellpath Report

WINTERS 19-3 AWP

Page 4 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 WINTERS 19-3 (1695'FSL & 499'FWL)
Area	COLORADO	Well	WINTERS 19-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WINTERS 19-3 AWB
Facility	SEC.03-T5N-R65W		

HOLE & CASING SECTIONS Ref Wellbore: WINTERS 19-3 AWB Ref Wellpath: WINTERS 19-3 AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	16.00	554.00	538.00	16.00	554.00	0.00	0.00	0.35	2.05
8.625in Casing Surface	16.00	536.00	520.00	16.00	536.00	0.00	0.00	0.30	1.94
7.875in Open Hole	536.00	7303.00	6767.00	536.00	7167.19	0.30	1.94	-325.52	945.00

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
WINTERS 19-3 GEO TARGET 50' RADIUS (1300'FSL & 1455'FWL, REV-1)		6000.00	-374.86	949.41	3235617.61	1398669.45	40°25'28.787"N	104°39'13.273"W	circle
WINTERS 19-3 LEGAL BOX (376'S,424'N,540'W,260'E OF GEO TARGET)		6000.00	-350.86	809.41	3235477.39	1398692.11	40°25'29.024"N	104°39'15.083"W	square

WELLPATH COMPOSITION Ref Wellbore: WINTERS 19-3 AWB Ref Wellpath: WINTERS 19-3 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	520.00	NaviTrak (Standard)	BHI MWD SURVEY 12.25 HOLE <158-520>	WINTERS 19-3 AWB
520.00	7253.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <619-7253>	WINTERS 19-3 AWB
7253.00	7303.00	Blind Drilling (std)	Projection to bit	WINTERS 19-3 AWB



Actual Wellpath Report

WINTERS 19-3 AWP

Page 5 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	WINTERS 19-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WINTERS 19-3 AWB
Facility	SEC.03-T5N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7253.00	1.900	356.500	7117.22	LAST BHI MWD SURVEY
7303.00	1.900	356.500	7167.19	PROJECTION TO BIT