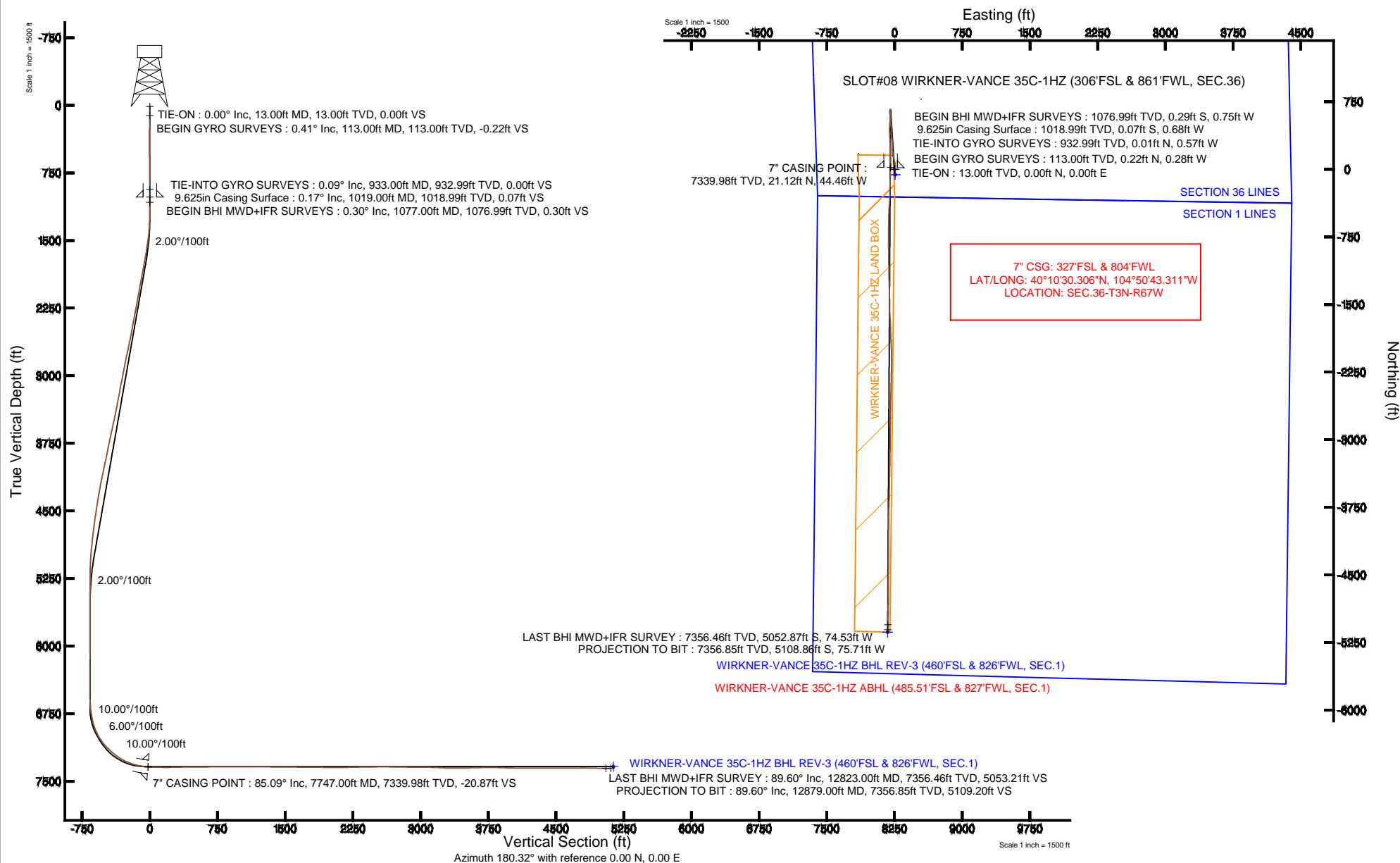


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
 Field: WELD COUNTY (KERR MCGEE) Well: WIRKNER-VANCE 35C-1HZ
 Facility: SEC.36-T3N-R67W Wellbore: WIRKNER-VANCE 35C-1HZ PWB

Plot reference wellpath is WIRKNER-VANCE 35C-1HZ (REV-B.0) PWP

True vertical depths are referenced to ENSIGN 138 (RKB 13) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to ENSIGN 138 (RKB 13) (RKB)	North Reference: True north
ENSGN 138 (RKB 13) (RKB) to Mean Sea Level: 4835 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wlsje02 on 1/22/2014





Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWB
Facility	SEC.36-T3N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Wilsjef02
Scale	0.999958	Report Generated	1/22/2014 at 07:53:55
Convergence at slot	n/a	Database/Source file	WellArchitectDB/WIRKNER-VANCE_35C-1HZ_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2915.49	431.75	3182970.70	1307280.77	40°10'30.097"N	104°50'42.738"W
Facility Reference Pt			3182517.51	1310192.87	40°10'58.908"N	104°50'48.300"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	ENSIGN 138 (RKB 13') (RKB) to Facility Vertical Datum	4835.00ft
Horizontal Reference Pt	Slot	ENSIGN 138 (RKB 13') (RKB) to Mean Sea Level	4835.00ft
Vertical Reference Pt	ENSIGN 138 (RKB 13') (RKB)	ENSIGN 138 (RKB 13') (RKB) to Mud Line at Slot (SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36))	4835.00ft
MD Reference Pt	ENSIGN 138 (RKB 13') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.85°



Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWP
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	308.210	0.00	0.00	0.00	0.00	40°10'30.097"N	104°50'42.738"W	0.00	
13.00	0.000	308.210	13.00	0.00	0.00	0.00	40°10'30.097"N	104°50'42.738"W	0.00	TIE-ON
113.00	0.410	308.210	113.00	-0.22	0.22	-0.28	40°10'30.099"N	104°50'42.742"W	0.41	BEGIN GYRO SURVEYS
213.00	0.260	5.060	213.00	-0.66	0.67	-0.54	40°10'30.104"N	104°50'42.745"W	0.35	
313.00	0.220	359.460	313.00	-1.08	1.09	-0.52	40°10'30.108"N	104°50'42.745"W	0.05	
413.00	0.110	247.350	413.00	-1.23	1.24	-0.61	40°10'30.109"N	104°50'42.746"W	0.28	
513.00	0.170	155.820	513.00	-1.06	1.07	-0.64	40°10'30.108"N	104°50'42.746"W	0.20	
613.00	0.350	183.260	613.00	-0.62	0.63	-0.60	40°10'30.103"N	104°50'42.746"W	0.21	
713.00	0.110	185.840	712.99	-0.22	0.23	-0.63	40°10'30.099"N	104°50'42.746"W	0.24	
813.00	0.090	174.170	812.99	-0.05	0.05	-0.63	40°10'30.098"N	104°50'42.746"W	0.03	
913.00	0.060	71.950	912.99	0.02	-0.01	-0.57	40°10'30.097"N	104°50'42.745"W	0.12	
933.00	0.090	308.260	932.99	0.00	0.01	-0.57	40°10'30.097"N	104°50'42.745"W	0.67	TIE-INTO GYRO SURVEYS
1077.00	0.300	193.200	1076.99	0.30	-0.29	-0.75	40°10'30.094"N	104°50'42.748"W	0.24	BEGIN BHI MWD+IFR SURVEYS
1168.00	0.300	250.500	1167.99	0.62	-0.60	-1.03	40°10'30.091"N	104°50'42.751"W	0.32	
1259.00	2.100	28.000	1258.97	-0.78	0.79	-0.47	40°10'30.105"N	104°50'42.744"W	2.56	
1350.00	4.400	26.500	1349.82	-5.41	5.39	1.87	40°10'30.150"N	104°50'42.714"W	2.53	
1441.00	7.000	18.800	1440.36	-13.84	13.76	5.22	40°10'30.233"N	104°50'42.671"W	2.97	
1531.00	8.400	6.000	1529.56	-25.60	25.49	7.67	40°10'30.349"N	104°50'42.639"W	2.45	
1642.00	8.600	356.100	1639.34	-41.95	41.84	7.96	40°10'30.510"N	104°50'42.636"W	1.33	
1733.00	10.900	350.300	1729.03	-57.19	57.11	6.04	40°10'30.661"N	104°50'42.660"W	2.75	
1824.00	10.800	348.200	1818.40	-73.97	73.93	2.85	40°10'30.828"N	104°50'42.701"W	0.45	
1915.00	10.800	347.800	1907.79	-90.59	90.61	-0.70	40°10'30.992"N	104°50'42.747"W	0.08	
2006.00	10.600	346.000	1997.21	-106.99	107.07	-4.52	40°10'31.155"N	104°50'42.796"W	0.43	
2096.00	10.700	347.200	2085.66	-123.11	123.25	-8.38	40°10'31.315"N	104°50'42.846"W	0.27	
2187.00	10.600	346.000	2175.09	-139.41	139.61	-12.27	40°10'31.477"N	104°50'42.896"W	0.27	
2278.00	10.500	348.400	2264.55	-155.60	155.85	-15.96	40°10'31.637"N	104°50'42.944"W	0.50	
2369.00	11.100	351.700	2353.94	-172.34	172.64	-18.90	40°10'31.803"N	104°50'42.981"W	0.95	
2552.00	10.200	353.700	2533.79	-205.81	206.18	-23.22	40°10'32.134"N	104°50'43.037"W	0.53	
2644.00	12.100	359.800	2624.05	-223.54	223.92	-24.14	40°10'32.310"N	104°50'43.049"W	2.43	
2827.00	11.600	0.000	2803.15	-261.11	261.50	-24.21	40°10'32.681"N	104°50'43.050"W	0.27	
3011.00	10.900	359.700	2983.61	-297.00	297.39	-24.30	40°10'33.036"N	104°50'43.051"W	0.38	
3103.00	11.300	352.400	3073.89	-314.62	315.03	-25.54	40°10'33.210"N	104°50'43.067"W	1.59	
3196.00	10.500	349.800	3165.22	-331.95	332.40	-28.25	40°10'33.382"N	104°50'43.102"W	1.01	
3291.00	10.700	351.000	3258.59	-349.13	349.63	-31.16	40°10'33.552"N	104°50'43.139"W	0.31	
3386.00	11.200	354.300	3351.87	-366.99	367.52	-33.45	40°10'33.729"N	104°50'43.169"W	0.84	
3482.00	11.900	352.900	3445.92	-386.05	386.62	-35.60	40°10'33.918"N	104°50'43.197"W	0.79	
3577.00	11.600	359.700	3538.94	-405.30	405.89	-36.87	40°10'34.108"N	104°50'43.213"W	1.49	
3671.00	12.900	1.400	3630.79	-425.24	425.83	-36.66	40°10'34.305"N	104°50'43.210"W	1.44	
3765.00	11.800	0.400	3722.62	-445.35	445.93	-36.33	40°10'34.504"N	104°50'43.206"W	1.19	
3859.00	11.000	0.500	3814.76	-463.93	464.51	-36.19	40°10'34.687"N	104°50'43.204"W	0.85	
3954.00	12.000	351.100	3907.86	-482.73	483.34	-37.64	40°10'34.873"N	104°50'43.223"W	2.23	
4049.00	12.200	351.300	4000.75	-502.36	503.02	-40.68	40°10'35.068"N	104°50'43.262"W	0.22	
4144.00	11.800	350.600	4093.67	-521.81	522.52	-43.79	40°10'35.261"N	104°50'43.302"W	0.45	
4238.00	11.300	359.600	4185.78	-540.48	541.21	-45.42	40°10'35.445"N	104°50'43.323"W	1.99	
4334.00	10.200	3.300	4280.09	-558.38	559.11	-45.00	40°10'35.622"N	104°50'43.318"W	1.35	



Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4429.00	9.200	352.100	4373.74	-574.29	575.03	-45.56	40°10'35.779"N	104°50'43.325"W	2.24	
4523.00	8.800	350.100	4466.59	-588.78	589.55	-47.83	40°10'35.923"N	104°50'43.354"W	0.54	
4619.00	8.500	350.300	4561.49	-602.97	603.78	-50.29	40°10'36.064"N	104°50'43.386"W	0.31	
4714.00	7.200	354.700	4655.60	-615.79	616.63	-52.02	40°10'36.191"N	104°50'43.408"W	1.51	
4809.00	6.800	352.200	4749.89	-627.27	628.13	-53.33	40°10'36.304"N	104°50'43.425"W	0.53	
4903.00	6.300	4.500	4843.28	-637.92	638.79	-53.68	40°10'36.410"N	104°50'43.430"W	1.58	
4998.00	5.600	10.600	4937.77	-647.69	648.54	-52.42	40°10'36.506"N	104°50'43.413"W	0.99	
5093.00	3.600	10.300	5032.46	-655.20	656.03	-51.04	40°10'36.580"N	104°50'43.395"W	2.11	
5187.00	2.400	29.100	5126.33	-659.85	660.65	-49.55	40°10'36.626"N	104°50'43.376"W	1.63	
5282.00	0.700	116.800	5221.30	-661.35	662.13	-48.07	40°10'36.640"N	104°50'43.357"W	2.60	
5472.00	0.300	89.800	5411.30	-660.85	661.61	-46.53	40°10'36.635"N	104°50'43.337"W	0.24	
5945.00	0.600	87.200	5884.28	-661.03	661.73	-42.82	40°10'36.636"N	104°50'43.290"W	0.06	
6417.00	2.200	289.000	6356.19	-664.01	664.81	-48.92	40°10'36.667"N	104°50'43.368"W	0.59	
6511.00	0.700	194.400	6450.16	-664.01	664.84	-50.77	40°10'36.667"N	104°50'43.392"W	2.51	
6606.00	1.300	125.000	6545.15	-662.84	663.66	-50.03	40°10'36.655"N	104°50'43.383"W	1.31	
6700.00	3.900	166.500	6639.05	-659.15	659.94	-48.41	40°10'36.618"N	104°50'43.362"W	3.25	
6795.00	7.500	177.800	6733.57	-649.82	650.60	-47.42	40°10'36.526"N	104°50'43.349"W	3.95	
6842.00	9.600	179.600	6780.04	-642.84	643.61	-47.27	40°10'36.457"N	104°50'43.347"W	4.50	
6889.00	12.900	178.200	6826.13	-633.68	634.45	-47.08	40°10'36.367"N	104°50'43.345"W	7.04	
6936.00	17.000	178.500	6871.53	-621.57	622.33	-46.73	40°10'36.247"N	104°50'43.340"W	8.72	
6984.00	21.000	179.900	6916.91	-605.95	606.71	-46.54	40°10'36.092"N	104°50'43.338"W	8.39	
7079.00	29.600	183.800	7002.72	-565.42	566.19	-48.06	40°10'35.692"N	104°50'43.357"W	9.22	
7173.00	39.000	185.500	7080.29	-512.63	513.47	-52.45	40°10'35.171"N	104°50'43.414"W	10.05	
7268.00	46.600	180.700	7149.96	-448.22	449.09	-55.74	40°10'34.535"N	104°50'43.456"W	8.70	
7315.00	49.500	178.200	7181.38	-413.28	414.15	-55.39	40°10'34.190"N	104°50'43.452"W	7.33	
7362.00	51.900	177.700	7211.15	-376.96	377.80	-54.08	40°10'33.830"N	104°50'43.435"W	5.17	
7409.00	56.500	177.300	7238.63	-338.92	339.73	-52.42	40°10'33.454"N	104°50'43.413"W	9.81	
7459.00	62.100	177.300	7264.15	-296.02	296.80	-50.39	40°10'33.030"N	104°50'43.387"W	11.20	
7506.00	66.600	177.400	7284.49	-253.74	254.49	-48.43	40°10'32.612"N	104°50'43.362"W	9.58	
7553.00	70.700	177.900	7301.60	-210.05	210.76	-46.64	40°10'32.180"N	104°50'43.339"W	8.78	
7600.00	75.300	178.400	7315.33	-165.16	165.85	-45.19	40°10'31.736"N	104°50'43.320"W	9.84	
7648.00	79.000	178.700	7326.01	-118.41	119.08	-44.01	40°10'31.274"N	104°50'43.305"W	7.73	
7695.00	81.700	180.300	7333.89	-72.09	72.75	-43.61	40°10'30.816"N	104°50'43.300"W	6.65	
7708.00	82.300	180.800	7335.70	-59.22	59.88	-43.73	40°10'30.689"N	104°50'43.301"W	5.98	
7747.00†	85.092	181.332	7339.98	-20.46	21.12	-44.46	40°10'30.306"N	104°50'43.311"W	7.29	7" CASING POINT
7789.00	88.100	181.900	7342.47	21.46	-20.78	-45.64	40°10'29.892"N	104°50'43.326"W	7.29	
7883.00	89.200	181.400	7344.69	115.42	-114.72	-48.34	40°10'28.963"N	104°50'43.361"W	1.29	
7978.00	90.400	181.300	7345.02	210.41	-209.69	-50.58	40°10'28.025"N	104°50'43.390"W	1.27	
8072.00	91.400	182.100	7343.54	304.39	-303.63	-53.37	40°10'27.097"N	104°50'43.426"W	1.36	
8167.00	91.200	183.400	7341.38	399.31	-398.50	-57.93	40°10'26.159"N	104°50'43.484"W	1.38	
8263.00	90.100	182.200	7340.30	495.25	-494.37	-62.62	40°10'25.212"N	104°50'43.545"W	1.70	
8357.00	90.000	180.700	7340.21	589.24	-588.34	-64.99	40°10'24.283"N	104°50'43.575"W	1.60	
8452.00	91.100	180.800	7339.30	684.23	-683.32	-66.24	40°10'23.344"N	104°50'43.591"W	1.16	
8546.00	90.000	179.600	7338.40	778.22	-777.32	-66.57	40°10'22.416"N	104°50'43.596"W	1.73	
8641.00	90.600	179.300	7337.90	873.19	-872.31	-65.65	40°10'21.477"N	104°50'43.584"W	0.71	



Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWP
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (134 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8736.00	90.000	179.100	7337.40	968.15	-967.30	-64.33	40°10'20.538"N	104°50'43.567"W	0.67	
8830.00	89.800	179.200	7337.57	1062.10	-1061.29	-62.93	40°10'19.609"N	104°50'43.549"W	0.24	
8924.00	89.300	179.300	7338.31	1156.06	-1155.28	-61.70	40°10'18.681"N	104°50'43.533"W	0.54	
9114.00	89.700	178.300	7339.97	1345.93	-1345.23	-57.72	40°10'16.803"N	104°50'43.482"W	0.57	
9209.00	89.400	178.800	7340.71	1440.85	-1440.19	-55.32	40°10'15.865"N	104°50'43.451"W	0.61	
9304.00	90.000	179.600	7341.21	1535.81	-1535.18	-53.99	40°10'14.926"N	104°50'43.434"W	1.05	
9399.00	88.400	177.000	7342.54	1630.70	-1630.12	-51.18	40°10'13.988"N	104°50'43.397"W	3.21	
9494.00	90.000	177.700	7343.86	1725.51	-1725.00	-46.78	40°10'13.050"N	104°50'43.341"W	1.84	
9588.00	90.300	178.000	7343.62	1819.38	-1818.94	-43.26	40°10'12.122"N	104°50'43.295"W	0.45	
9683.00	88.300	177.100	7344.78	1914.21	-1913.84	-39.20	40°10'11.184"N	104°50'43.243"W	2.31	
9778.00	89.700	177.900	7346.43	2009.03	-2008.73	-35.05	40°10'10.247"N	104°50'43.190"W	1.70	
9873.00	90.500	179.600	7346.27	2103.96	-2103.70	-32.98	40°10'09.308"N	104°50'43.163"W	1.98	
9969.00	91.400	181.700	7344.68	2199.94	-2199.68	-34.07	40°10'08.360"N	104°50'43.177"W	2.38	
10063.00	90.900	181.200	7342.79	2293.92	-2293.63	-36.45	40°10'07.431"N	104°50'43.208"W	0.75	
10157.00	90.600	181.000	7341.56	2387.91	-2387.60	-38.25	40°10'06.503"N	104°50'43.231"W	0.38	
10251.00	90.900	181.800	7340.33	2481.89	-2481.56	-40.55	40°10'05.574"N	104°50'43.260"W	0.91	
10347.00	90.000	181.500	7339.57	2577.88	-2577.52	-43.31	40°10'04.626"N	104°50'43.296"W	0.99	
10443.00	89.300	181.000	7340.16	2673.87	-2673.49	-45.41	40°10'03.677"N	104°50'43.323"W	0.90	
10537.00	89.800	181.000	7340.90	2767.87	-2767.48	-47.05	40°10'02.749"N	104°50'43.344"W	0.53	
10632.00	88.200	180.200	7342.56	2862.85	-2862.45	-48.04	40°10'01.810"N	104°50'43.357"W	1.88	
10727.00	89.700	180.400	7344.30	2957.83	-2957.43	-48.54	40°10'00.872"N	104°50'43.363"W	1.59	
10821.00	90.300	180.600	7344.30	3051.83	-3051.43	-49.36	40°09'59.943"N	104°50'43.374"W	0.67	
10918.00	88.000	181.000	7345.74	3148.81	-3148.40	-50.71	40°09'58.984"N	104°50'43.391"W	2.41	
11013.00	87.600	180.800	7349.38	3243.74	-3243.32	-52.21	40°09'58.046"N	104°50'43.410"W	0.47	
11107.00	89.500	181.200	7351.76	3337.70	-3337.27	-53.85	40°09'57.118"N	104°50'43.432"W	2.07	
11203.00	90.300	181.200	7351.93	3433.70	-3433.25	-55.86	40°09'56.170"N	104°50'43.457"W	0.83	
11298.00	91.600	180.900	7350.36	3528.68	-3528.22	-57.60	40°09'55.231"N	104°50'43.480"W	1.40	
11393.00	91.000	181.300	7348.20	3623.66	-3623.18	-59.42	40°09'54.293"N	104°50'43.503"W	0.76	
11488.00	90.700	181.600	7346.79	3718.64	-3718.14	-61.82	40°09'53.354"N	104°50'43.534"W	0.45	
11583.00	89.400	181.700	7346.71	3813.63	-3813.09	-64.56	40°09'52.416"N	104°50'43.570"W	1.37	
11677.00	87.600	180.200	7349.17	3907.59	-3907.04	-66.12	40°09'51.487"N	104°50'43.590"W	2.49	
11773.00	89.000	180.100	7352.02	4003.54	-4003.00	-66.37	40°09'50.539"N	104°50'43.593"W	1.46	
11869.00	90.300	179.800	7352.60	4099.53	-4098.99	-66.29	40°09'49.591"N	104°50'43.592"W	1.39	
11964.00	89.800	179.900	7352.52	4194.51	-4193.99	-66.04	40°09'48.652"N	104°50'43.589"W	0.54	
12058.00	89.700	180.400	7352.93	4288.50	-4287.99	-66.28	40°09'47.723"N	104°50'43.592"W	0.54	
12153.00	90.000	180.600	7353.18	4383.50	-4382.99	-67.11	40°09'46.784"N	104°50'43.602"W	0.38	
12248.00	89.700	180.800	7353.43	4478.50	-4477.98	-68.27	40°09'45.845"N	104°50'43.617"W	0.38	
12342.00	89.500	180.400	7354.08	4572.50	-4571.97	-69.26	40°09'44.917"N	104°50'43.630"W	0.48	
12436.00	90.900	180.000	7353.76	4666.49	-4665.97	-69.58	40°09'43.988"N	104°50'43.634"W	1.55	
12531.00	90.700	180.200	7352.43	4761.47	-4760.96	-69.75	40°09'43.049"N	104°50'43.636"W	0.30	
12625.00	89.000	181.100	7352.68	4855.46	-4854.95	-70.82	40°09'42.120"N	104°50'43.650"W	2.05	
12720.00	88.500	181.000	7354.75	4950.44	-4949.91	-72.56	40°09'41.182"N	104°50'43.673"W	0.54	
12823.00	89.600	181.200	7356.46	5053.42	-5052.87	-74.53	40°09'40.164"N	104°50'43.698"W	1.09	LAST BHI MWD+IFR SURVEY
12879.00	89.600	181.200	7356.85	5109.42	-5108.86	-75.71	40°09'39.611"N	104°50'43.713"W	0.00	PROJECTION TO BIT



Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWB
Facility	SEC.36-T3N-R67W		

HOLE & CASING SECTIONS - Ref Wellbore: WIRKNER-VANCE 35C-1HZ AWB Ref Wellpath: WIRKNER-VANCE 35C-1HZ 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]
13.5in Open Hole	13.00	1019.00	1006.00	13.00	1018.99	0.00	0.00	-0.07	-0.68
9.625in Casing Surface	13.00	1019.00	1006.00	13.00	1018.99	0.00	0.00	-0.07	-0.68
8.75in Open Hole	1019.00	7762.00	6743.00	1018.99	7341.12	-0.07	-0.68	6.17	-44.83
7in Casing Intermediate	13.00	7747.00	7734.00	13.00	7339.98	0.00	0.00	21.12	-44.46
6.125in Open Hole	7747.00	12879.00	5132.00	7339.98	7356.85	21.12	-44.46	-5108.86	-75.71

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WIRKNER-VANCE 35C-1HZ BHL REV-3 (460'FSL & 826'FWL, SEC.1)		7337.00	-5134.37	-76.71	3182931.91	1302146.20	40°09'39.359"N	104°50'43.726"W	point
CANTRELL REDV 1-13 150' RADIUS		7340.00	-4960.62	-236.18	3182771.17	1302318.76	40°09'41.076"N	104°50'45.780"W	circle
WIRKNER-VANCE 35C-1HZ BHL ON PLAT REV-1 (460'FSL & 801'FWL, SEC.1)		7342.00	-5134.37	-101.71	3182906.91	1302146.01	40°09'39.359"N	104°50'44.048"W	point
WIRKNER-VANCE 35C-1HZ BHL REV-2 (460'FSL & 826'FWL, SEC.1)		7342.00	-5134.37	-76.71	3182931.91	1302146.20	40°09'39.359"N	104°50'43.726"W	point
WIRKNER SECTION 1 LINES		7400.00	-59.40	6.99	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon
WIRKNER SECTION 36 LINES		7400.00	-59.40	6.99	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon
WIRKNER-VANCE 35C-1HZ LAND BOX		7400.00	0.00	0.00	3182970.70	1307280.76	40°10'30.097"N	104°50'42.738"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: WIRKNER-VANCE 35C-1HZ AWB Ref Wellpath: WIRKNER-VANCE 35C-1HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	933.00	Generic gyro - continuous (Standard)	MS GYRODATA SURVEYS <113-933>	WIRKNER-VANCE 35C-1HZ AWB
933.00	7708.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1077-7708>	WIRKNER-VANCE 35C-1HZ AWB
7708.00	12823.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7789-12823>	WIRKNER-VANCE 35C-1HZ AWB
12823.00	12879.00	Blind Drilling (std)	Projection to bit	WIRKNER-VANCE 35C-1HZ AWB



Actual Wellpath Report

WIRKNER-VANCE 35C-1HZ AWP

Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 WIRKNER-VANCE 35C-1HZ (306'FSL & 861'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 35C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 35C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	308.210	13.00	TIE-ON
113.00	0.410	308.210	113.00	BEGIN GYRO SURVEYS
933.00	0.090	308.260	932.99	TIE-INTO GYRO SURVEYS
1077.00	0.300	193.200	1076.99	BEGIN BHI MWD+IFR SURVEYS
7747.00	85.092	181.332	7339.98	7" CASING POINT
12823.00	89.600	181.200	7356.46	LAST BHI MWD+IFR SURVEY
12879.00	89.600	181.200	7356.85	PROJECTION TO BIT