





# Planned Wellpath Report

WIRKNER-VANCE 29C-36HZX (REV-A.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 WIRKNER-VANCE 29C-36HZ (455'FSL & 849'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 29C-36HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 29C-36HZX PWB
Facility	SEC.36-T3N-R67W	Sidetrack from	WIRKNER-VANCE 29C-36HZ AWB at 7717.00 MD

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	1/7/2014 at 17:34:14
Convergence at slot	n/a	Database/Source file	WellArchitectDB/WIRKNER-VANCE_29C-36HZX_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2766.44	414.12	3182951.98	1307429.68	40°10'31.570"N	104°50'42.965"W
Facility Reference Pt			3182517.51	1310192.87	40°10'58.908"N	104°50'48.300"W
Field Reference Pt			<b>3197771.84</b>	<b>1268891.29</b>	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#13 WIRKNER-VANCE 29C-36HZ (455'FSL & 849'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	1.34°



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Area	COLORADO	Well	WIRKNER-VANCE 29C-36HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 29C-36HZX PWB
Facility	SEC.36-T3N-R67W	Sidetrack from	WIRKNER-VANCE 29C-36HZ AWB at 7717.00 MD

WELLPATH DATA (53 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7717.00	85.000	0.200	7345.73	245.70	242.95	120.34	40°10'33.971"N	104°50'41.415"W	0.00	TIE-INTO BHI MWD-OH
7780.00	90.193	0.063	7348.37	308.61	305.87	120.48	40°10'34.593"N	104°50'41.413"W	8.25	BEGIN TURN & DROP
7817.00†	90.121	2.281	7348.27	345.61	342.86	121.24	40°10'34.958"N	104°50'41.403"W	6.00	
7879.01	90.000	6.000	7348.20	407.53	404.69	125.72	40°10'35.569"N	104°50'41.345"W	6.00	END TURN & DROP
7917.00†	90.000	6.000	7348.20	445.40	442.48	129.69	40°10'35.943"N	104°50'41.294"W	0.00	
8017.00†	90.000	6.000	7348.20	545.07	541.93	140.14	40°10'36.925"N	104°50'41.160"W	0.00	
8054.01	90.000	6.000	7348.20	581.95	578.74	144.01	40°10'37.289"N	104°50'41.110"W	0.00	BEGIN TURN
8117.00†	90.000	4.740	7348.20	644.79	641.45	149.90	40°10'37.909"N	104°50'41.034"W	2.00	
8217.00†	90.000	2.740	7348.20	744.70	741.23	156.43	40°10'38.895"N	104°50'40.950"W	2.00	
8317.00†	90.000	0.740	7348.20	844.69	841.18	159.46	40°10'39.883"N	104°50'40.911"W	2.00	
8417.00†	90.000	358.740	7348.20	944.64	941.17	159.01	40°10'40.871"N	104°50'40.916"W	2.00	
8421.51	90.000	358.650	7348.20	949.15	945.68	158.91	40°10'40.915"N	104°50'40.918"W	2.00	END TURN
8517.00†	90.000	358.650	7348.20	1044.53	1041.15	156.66	40°10'41.859"N	104°50'40.947"W	0.00	
8617.00†	90.000	358.650	7348.20	1144.42	1141.12	154.30	40°10'42.847"N	104°50'40.977"W	0.00	
8621.51	90.000	358.650	7348.20	1148.93	1145.63	154.19	40°10'42.891"N	104°50'40.978"W	0.00	BEGIN TURN
8717.00†	90.000	356.740	7348.20	1244.22	1241.03	150.35	40°10'43.834"N	104°50'41.028"W	2.00	
8804.01	90.000	355.000	7348.20	1330.83	1327.81	144.09	40°10'44.691"N	104°50'41.109"W	2.00	END TURN
8817.00†	90.000	355.000	7348.20	1343.74	1340.76	142.96	40°10'44.819"N	104°50'41.123"W	0.00	
8917.00†	90.000	355.000	7348.20	1443.13	1440.38	134.24	40°10'45.804"N	104°50'41.236"W	0.00	
9017.00†	90.000	355.000	7348.20	1542.52	1540.00	125.52	40°10'46.788"N	104°50'41.348"W	0.00	
9117.00†	90.000	355.000	7348.20	1641.90	1639.61	116.81	40°10'47.773"N	104°50'41.460"W	0.00	
9217.00†	90.000	355.000	7348.20	1741.29	1739.23	108.09	40°10'48.757"N	104°50'41.572"W	0.00	
9317.00†	90.000	355.000	7348.20	1840.68	1838.85	99.38	40°10'49.742"N	104°50'41.685"W	0.00	
9344.01	90.000	355.000	7348.20	1867.52	1865.76	97.02	40°10'50.007"N	104°50'41.715"W	0.00	BEGIN TURN
9417.00†	90.000	356.460	7348.20	1940.16	1938.55	91.59	40°10'50.727"N	104°50'41.785"W	2.00	
9517.00†	90.000	358.460	7348.20	2039.93	2038.44	87.16	40°10'51.714"N	104°50'41.842"W	2.00	
9526.51	90.000	358.650	7348.20	2049.42	2047.95	86.92	40°10'51.808"N	104°50'41.845"W	2.00	END TURN
9617.00†	90.000	358.650	7348.20	2139.81	2138.41	84.79	40°10'52.702"N	104°50'41.873"W	0.00	
9717.00†	90.000	358.650	7348.20	2239.70	2238.39	82.43	40°10'53.690"N	104°50'41.903"W	0.00	
9817.00†	90.000	358.650	7348.20	2339.59	2338.36	80.07	40°10'54.678"N	104°50'41.933"W	0.00	
9917.00†	90.000	358.650	7348.20	2439.48	2438.33	77.72	40°10'55.666"N	104°50'41.964"W	0.00	
10017.00†	90.000	358.650	7348.20	2539.37	2538.30	75.36	40°10'56.654"N	104°50'41.994"W	0.00	
10117.00†	90.000	358.650	7348.20	2639.26	2638.28	73.01	40°10'57.641"N	104°50'42.024"W	0.00	
10217.00†	90.000	358.650	7348.20	2739.15	2738.25	70.65	40°10'58.629"N	104°50'42.055"W	0.00	
10317.00†	90.000	358.650	7348.20	2839.04	2838.22	68.29	40°10'59.617"N	104°50'42.085"W	0.00	
10417.00†	90.000	358.650	7348.20	2938.93	2938.19	65.94	40°11'00.605"N	104°50'42.115"W	0.00	
10517.00†	90.000	358.650	7348.20	3038.82	3038.16	63.58	40°11'01.593"N	104°50'42.146"W	0.00	
10617.00†	90.000	358.650	7348.20	3138.71	3138.14	61.23	40°11'02.581"N	104°50'42.176"W	0.00	
10680.00	90.000	358.650	7348.20	3201.64	3201.12	59.74	40°11'03.204"N	104°50'42.195"W	0.00	BEGIN TURN
10717.00†	90.000	359.390	7348.20	3238.61	3238.11	59.11	40°11'03.569"N	104°50'42.203"W	2.00	
10817.00†	90.000	1.390	7348.20	3338.59	3338.11	59.79	40°11'04.557"N	104°50'42.195"W	2.00	
10860.30	90.000	2.256	7348.20	3381.89	3381.38	61.17	40°11'04.985"N	104°50'42.177"W	2.00	END TURN
10917.00†	90.090	2.269	7348.16	3438.58	3438.04	63.41	40°11'05.545"N	104°50'42.148"W	0.16	
11017.00†	90.248	2.291	7347.86	3538.57	3537.96	67.38	40°11'06.532"N	104°50'42.097"W	0.16	
11117.00†	90.406	2.313	7347.29	3638.55	3637.88	71.40	40°11'07.520"N	104°50'42.045"W	0.16	



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Area	COLORADO	Well	WIRKNER-VANCE 29C-36HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 29C-36HZX PWB
Facility	SEC.36-T3N-R67W	Sidetrack from	WIRKNER-VANCE 29C-36HZ AWB at 7717.00 MD

WELLPATH DATA (53 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11217.00†	90.564	2.336	7346.45	3738.53	3737.79	75.46	40°11'08.507"N	104°50'41.993"W	0.16	
11317.00†	90.722	2.358	7345.32	3838.51	3837.70	79.55	40°11'09.494"N	104°50'41.940"W	0.16	
11417.00†	90.880	2.380	7343.93	3938.49	3937.61	83.68	40°11'10.481"N	104°50'41.887"W	0.16	
11517.00†	91.039	2.403	7342.25	4038.46	4037.51	87.86	40°11'11.469"N	104°50'41.833"W	0.16	
11617.00†	91.197	2.425	7340.30	4138.42	4137.40	92.07	40°11'12.456"N	104°50'41.779"W	0.16	
11717.00†	91.355	2.447	7338.07	4238.38	4237.28	96.32	40°11'13.443"N	104°50'41.724"W	0.16	
11817.00†	91.513	2.470	7335.57	4338.33	4337.16	100.61	40°11'14.430"N	104°50'41.669"W	0.16	
11874.77	91.604	2.483	7334.00 <sup>1</sup>	4396.06	4394.85	103.10	40°11'15.000"N	104°50'41.637"W	0.16	TOTAL DEPTH

HOLE & CASING SECTIONS -									
Ref Wellbore: WIRKNER-VANCE 29C-36HZX PWB    Ref Wellpath: WIRKNER-VANCE 29C-36HZX (REV-A.0) PWP									
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	1018.97	0.00	0.00	4.72	-5.31
9.625in Casing Intermediate	13.00	1019.00	1006.00	13.00	1018.97	0.00	0.00	4.72	-5.31
8.75in Open Hole	1019.00	7717.00	6698.00	1018.97	7345.73	4.72	-5.31	242.95	120.34
7in Casing Intermediate	13.00	7717.00	7704.00	13.00	7345.73	0.00	0.00	242.95	120.34
6.125in Open Hole	7717.00	11874.77	4157.77	7345.73	7334.00	242.95	120.34	4394.85	103.10



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Area	COLORADO	Well	WIRKNER-VANCE 29C-36HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 29C-36HZX PWB
Facility	SEC.36-T3N-R67W	Sidetrack from	WIRKNER-VANCE 29C-36HZ AWB at 7717.00 MD

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WIRKNER-VANCE 29N-36HZ/29C-36HZ LAND BOX		7200.00	-59.81	6.99	3182959.41	1307369.93	40°10'30.979"N	104°50'42.875"W	polygon
WIRKNER-VANCE 29C-36HZ BHL REV-3 (460'FNL & 1085'FWL, SEC.36)		7328.00	4394.85	103.10	3183022.63	1311824.98	40°11'15.000"N	104°50'41.637"W	point
WIRKNER-VANCE 29C-36HZ BHL ON PLAT REV-1 (460'FNL & 985'FWL, SEC.36)		7330.00	4394.85	3.09	3182922.62	1311824.24	<b>40°11'15.000"N</b>	<b>104°50'42.925"W</b>	point
WIRKNER-VANCE 29C-36HZ BHL REV-2 (460'FNL & 1085'FWL, SEC.36)		7330.00	4394.85	103.10	3183022.63	1311824.98	40°11'15.000"N	104°50'41.637"W	point
1) WIRKNER-VANCE 29C-36HZ BHL REV-4 (460'FNL & 1085'FWL, SEC.36)	11874.77	7334.00	4394.85	103.10	3183022.63	1311824.98	40°11'15.000"N	104°50'41.637"W	point
WIRKNER SECTION 1 LINES		7400.00	-208.46	24.61	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon
WIRKNER SECTION 36 LINES		7400.00	-208.46	24.61	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon

SURVEY PROGRAM - Ref Wellbore: WIRKNER-VANCE 29C-36HZX PWB    Ref Wellpath: WIRKNER-VANCE 29C-36HZX (REV-A.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	933.00	Generic gyro - continuous (Standard)		WIRKNER-VANCE 29C-36HZ AWB
933.00	7717.00	NaviTrak (MAGCORR,IFR)		WIRKNER-VANCE 29C-36HZ AWB
7717.00	11874.77	NaviTrak (MAGCORR,IFR)		WIRKNER-VANCE 29C-36HZX PWB



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**WIRKNER-VANCE 29C-36HZX (REV-A.0) PWP**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	<b>KERR-MCGEE OIL &amp; GAS ONSHORE LP</b>	Slot	<b>SLOT#13 WIRKNER-VANCE 29C-36HZ (455'FSL &amp; 849'FWL, SEC.36)</b>
Area	<b>COLORADO</b>	Well	<b>WIRKNER-VANCE 29C-36HZX</b>
Field	<b>WELD COUNTY (KERR MCGEE)</b>	Wellbore	<b>WIRKNER-VANCE 29C-36HZX PWB</b>
Facility	<b>SEC.36-T3N-R67W</b>	Sidetrack from	<b>WIRKNER-VANCE 29C-36HZ AWB at 7717.00 MD</b>

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	311.930	13.00	TIE-ON
113.00	0.570	311.930	113.00	BEGIN GYRO SURVEYS