



Planned Wellpath Report

COLFER 14C-34HZX (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#13 COLFER 14C-34HZ (231'FNL & 2443'FWL, SEC.34)
Area	COLORADO	Well	COLFER 14C-34HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COLFER 14C-34HZX PWB
Facility	SEC.34-T2N-R65W	Sidetrack from	COLFER 14C-34HZ AWB at 6629.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.2
North Reference	True	User	Wilsjef02
Scale	0.99996	Report Generated	2/25/2013 at 14:23:18
Convergence at slot	0.55° East	Database/Source file	WellArchitectDB/COLFER_14C-34HZX_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	239.89	1838.56	3237625.95	1281015.49	40°06'05.958"N	104°39'01.879"W
Facility Reference Pt			3235789.83	1280758.14	40°06'03.588"N	104°39'25.539"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 145 (RKB) to Facility Vertical Datum	4977.00ft
Horizontal Reference Pt	Slot	ENSIGN 145 (RKB) to Mean Sea Level	4977.00ft
Vertical Reference Pt	ENSIGN 145 (RKB)	ENSIGN 145 (RKB) to Mud Line at Slot (SLOT#13 COLFER 14C-34HZ (231'FNL & 2443'FWL, SEC.34))	4977.00ft
MD Reference Pt	ENSIGN 145 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	181.62°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	COLFER 14C-34HZX PWB
Facility	SEC.34-T2N-R65W	Sidetrack from	COLFER 14C-34HZ AWB at 6629.00 MD

WELLPATH DATA (62 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6629.00	0.380	247.420	6608.26	-169.89	173.92	-139.66	40°06'07.677"N	104°39'03.676"W	0.00	TIE-INTO OH
6729.00†	8.256	200.821	6707.91	-162.97	167.07	-142.52	40°06'07.609"N	104°39'03.713"W	8.00	
6800.82	14.000	200.000	6778.35	-149.84	154.07	-147.33	40°06'07.481"N	104°39'03.775"W	8.00	BEGIN NUDGE
6829.00†	14.000	200.000	6805.69	-143.37	147.67	-149.66	40°06'07.417"N	104°39'03.805"W	0.00	
6860.18	14.000	200.000	6835.94	-136.21	140.58	-152.24	40°06'07.347"N	104°39'03.838"W	0.00	END NUDGE
6929.00†	20.453	191.778	6901.65	-116.45	120.96	-157.55	40°06'07.153"N	104°39'03.907"W	10.00	
7029.00†	30.160	186.051	6991.96	-74.10	78.77	-163.78	40°06'06.736"N	104°39'03.987"W	10.00	
7129.00†	40.002	182.941	7073.70	-16.78	21.55	-168.09	40°06'06.171"N	104°39'04.042"W	10.00	
7229.00†	49.898	180.899	7144.39	53.77	-48.97	-170.35	40°06'05.474"N	104°39'04.071"W	10.00	
7329.00†	59.821	179.381	7201.88	135.41	-130.64	-170.48	40°06'04.667"N	104°39'04.073"W	10.00	
7429.00†	69.758	178.143	7244.42	225.66	-220.98	-168.49	40°06'03.774"N	104°39'04.047"W	10.00	
7461.00†	72.940	177.783	7254.65	255.91	-251.27	-167.41	40°06'03.475"N	104°39'04.033"W	10.00	Last BHI OH MWD Surveys
7514.00†	78.211	177.213	7267.85	307.09	-302.53	-165.17	40°06'02.968"N	104°39'04.004"W	10.00	OH Projection to Bit
7529.00†	79.703	177.056	7270.72	321.77	-317.24	-164.43	40°06'02.823"N	104°39'03.995"W	10.00	
7629.00†	89.652	176.035	7279.99	420.82	-416.50	-158.43	40°06'01.842"N	104°39'03.918"W	10.00	
7632.50	90.000	176.000	7280.00	424.30	-419.99	-158.19	40°06'01.808"N	104°39'03.915"W	10.00	LANDING POINT
7729.00†	90.000	176.000	7280.00	520.34	-516.26	-151.46	40°06'00.856"N	104°39'03.828"W	0.00	
7829.00†	90.000	176.000	7280.00	619.86	-616.01	-144.48	40°05'59.870"N	104°39'03.738"W	0.00	
7884.20	90.000	176.000	7280.00	674.79	-671.08	-140.63	40°05'59.326"N	104°39'03.689"W	0.00	BEGIN TURN
7929.00†	90.000	176.896	7280.00	719.41	-715.79	-137.85	40°05'58.884"N	104°39'03.653"W	2.00	
8029.00†	90.000	178.896	7280.00	819.19	-815.72	-134.18	40°05'57.897"N	104°39'03.606"W	2.00	
8081.90	90.000	179.954	7280.00	872.05	-868.61	-133.65	40°05'57.374"N	104°39'03.599"W	2.00	END TURN
8129.00†	90.000	179.954	7280.00	919.13	-915.71	-133.61	40°05'56.909"N	104°39'03.598"W	0.00	
8229.00†	90.000	179.954	7280.00	1019.09	-1015.71	-133.53	40°05'55.921"N	104°39'03.597"W	0.00	
8329.00†	90.000	179.954	7280.00	1119.05	-1115.71	-133.45	40°05'54.932"N	104°39'03.596"W	0.00	
8429.00†	90.000	179.954	7280.00	1219.00	-1215.71	-133.37	40°05'53.944"N	104°39'03.595"W	0.00	
8529.00†	90.000	179.954	7280.00	1318.96	-1315.71	-133.29	40°05'52.956"N	104°39'03.594"W	0.00	
8629.00†	90.000	179.954	7280.00	1418.92	-1415.71	-133.21	40°05'51.968"N	104°39'03.593"W	0.00	
8729.00†	90.000	179.954	7280.00	1518.88	-1515.71	-133.13	40°05'50.979"N	104°39'03.592"W	0.00	
8829.00†	90.000	179.954	7280.00	1618.83	-1615.71	-133.05	40°05'49.991"N	104°39'03.591"W	0.00	
8929.00†	90.000	179.954	7280.00	1718.79	-1715.71	-132.97	40°05'49.003"N	104°39'03.590"W	0.00	
9029.00†	90.000	179.954	7280.00	1818.75	-1815.71	-132.89	40°05'48.015"N	104°39'03.589"W	0.00	
9129.00†	90.000	179.954	7280.00	1918.71	-1915.71	-132.81	40°05'47.027"N	104°39'03.588"W	0.00	
9229.00†	90.000	179.954	7280.00	2018.67	-2015.71	-132.73	40°05'46.038"N	104°39'03.587"W	0.00	
9329.00†	90.000	179.954	7280.00	2118.62	-2115.71	-132.65	40°05'45.050"N	104°39'03.586"W	0.00	
9429.00†	90.000	179.954	7280.00	2218.58	-2215.71	-132.57	40°05'44.062"N	104°39'03.585"W	0.00	
9529.00†	90.000	179.954	7280.00	2318.54	-2315.71	-132.49	40°05'43.074"N	104°39'03.584"W	0.00	
9629.00†	90.000	179.954	7280.00	2418.50	-2415.71	-132.41	40°05'42.086"N	104°39'03.583"W	0.00	
9729.00†	90.000	179.954	7280.00	2518.45	-2515.71	-132.33	40°05'41.097"N	104°39'03.582"W	0.00	
9829.00†	90.000	179.954	7280.00	2618.41	-2615.71	-132.25	40°05'40.109"N	104°39'03.581"W	0.00	
9929.00†	90.000	179.954	7280.00	2718.37	-2715.71	-132.17	40°05'39.121"N	104°39'03.580"W	0.00	
10029.00†	90.000	179.954	7280.00	2818.33	-2815.71	-132.09	40°05'38.133"N	104°39'03.579"W	0.00	
10129.00†	90.000	179.954	7280.00	2918.28	-2915.71	-132.01	40°05'37.144"N	104°39'03.578"W	0.00	
10229.00†	90.000	179.954	7280.00	3018.24	-3015.71	-131.93	40°05'36.156"N	104°39'03.577"W	0.00	
10329.00†	90.000	179.954	7280.00	3118.20	-3115.71	-131.85	40°05'35.168"N	104°39'03.575"W	0.00	



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Area	COLORADO	Well	COLFER 14C-34HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COLFER 14C-34HZX PWB
Facility	SEC.34-T2N-R65W	Sidetrack from	COLFER 14C-34HZ AWB at 6629.00 MD

WELLPATH DATA (62 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10429.00†	90.000	179.954	7280.00	3218.16	-3215.71	-131.77	40°05'34.180"N	104°39'03.574"W	0.00	
10529.00†	90.000	179.954	7280.00	3318.11	-3315.71	-131.69	40°05'33.192"N	104°39'03.573"W	0.00	
10629.00†	90.000	179.954	7280.00	3418.07	-3415.71	-131.61	40°05'32.203"N	104°39'03.572"W	0.00	
10710.96	90.000	179.954	7280.00	3500.00	-3497.67	-131.54	40°05'31.393"N	104°39'03.572"W	0.00	BEGIN BUILD
10729.00†	90.361	179.954	7279.94	3518.03	-3515.71	-131.53	40°05'31.215"N	104°39'03.571"W	2.00	
10774.48	91.270	179.954	7279.29	3563.48	-3561.19	-131.49	40°05'30.766"N	104°39'03.571"W	2.00	END BUILD
10829.00†	91.270	179.954	7278.08	3617.97	-3615.70	-131.45	40°05'30.227"N	104°39'03.570"W	0.00	
10929.00†	91.270	179.954	7275.87	3717.90	-3715.67	-131.37	40°05'29.239"N	104°39'03.569"W	0.00	
11029.00†	91.270	179.954	7273.65	3817.83	-3815.65	-131.29	40°05'28.251"N	104°39'03.568"W	0.00	
11129.00†	91.270	179.954	7271.43	3917.77	-3915.62	-131.21	40°05'27.263"N	104°39'03.567"W	0.00	
11229.00†	91.270	179.954	7269.21	4017.70	-4015.60	-131.13	40°05'26.275"N	104°39'03.566"W	0.00	
11329.00†	91.270	179.954	7267.00	4117.63	-4115.57	-131.05	40°05'25.287"N	104°39'03.565"W	0.00	
11429.00†	91.270	179.954	7264.78	4217.57	-4215.55	-130.97	40°05'24.299"N	104°39'03.564"W	0.00	
11529.00†	91.270	179.954	7262.56	4317.50	-4315.52	-130.89	40°05'23.311"N	104°39'03.563"W	0.00	
11629.00†	91.270	179.954	7260.35	4417.43	-4415.50	-130.81	40°05'22.323"N	104°39'03.562"W	0.00	
11729.00†	91.270	179.954	7258.13	4517.37	-4515.47	-130.73	40°05'21.335"N	104°39'03.561"W	0.00	
11825.09	91.270	179.954	7256.00 [†]	4613.39	-4611.54	-130.65	40°05'20.386"N	104°39'03.560"W	0.00	TOTAL DEPTH

HOLE & CASING SECTIONS - Ref Wellbore: COLFER 14C-34HZX PWB Ref Wellpath: COLFER 14C-34HZX (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]
12.25in Open Hole	13.00	1759.00	1746.00	13.00	1758.84	0.00	0.00	-3.53	19.36
9.625in Casing Surface	13.00	1759.00	1746.00	13.00	1758.84	0.00	0.00	-3.53	19.36
8.75in Open Hole	1759.00	6629.00	4870.00	1758.84	6608.26	-3.53	19.36	173.92	-139.66
8.75in Open Hole	6629.00	7632.50	1003.50	6608.26	7280.00	173.92	-139.66	-419.99	-158.19
7in Casing Intermediate	13.00	7632.50	7619.50	13.00	7280.00	0.00	0.00	-419.99	-158.19
6.125in Open Hole	7632.50	11825.09	4192.59	7280.00	NA	-419.99	-158.19	NA	NA
4.5in Casing Production	13.00	11825.09	11812.09	13.00	NA	0.00	0.00	NA	NA



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Area	COLORADO	Well	COLFER 14C-34HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COLFER 14C-34HZX PWB
Facility	SEC.34-T2N-R65W	Sidetrack from	COLFER 14C-34HZ AWB at 6629.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
COLFER PAD SECTION LINES		19.00	-239.66	-1838.50	3235789.91	1280758.25	40°06'03.589"N	104°39'25.538"W	polygon
COLFER PAD HARDLINES (460' SETBACKS)		7047.00	-239.66	-1838.50	3235789.91	1280758.25	40°06'03.589"N	104°39'25.538"W	polygon
1) COLFER 14C-34HZ BHL ON PLAT (460'FSL & 2307'FWL, SEC.34) REV-2	11825.09	7256.00	-4611.54	-130.65	3237539.49	1276403.11	40°05'20.386"N	104°39'03.560"W	point
COLFER 14C-34HZ BHL ON PLAT (460'FSL & 2307'FWL, SEC.34) REV-1		7287.00	-4611.54	-130.65	3237539.49	1276403.10	40°05'20.386"N	104°39'03.560"W	point
COLFER 14C-34HZ LAND BOX		7287.00	0.00	0.00	3237625.95	1281015.49	40°06'05.958"N	104°39'01.879"W	polygon

SURVEY PROGRAM - Ref Wellbore: COLFER 14C-34HZX PWB Ref Wellpath: COLFER 14C-34HZX (REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	1663.00	Generic gyro - continuous (Standard)		COLFER 14C-34HZ AWB
1663.00	6629.00	NaviTrak (MagCorr)		COLFER 14C-34HZ AWB
6629.00	7632.50	NaviTrak (MagCorr)		COLFER 14C-34HZX PWB
7632.50	11825.09	OnTrak (MagCorr)		COLFER 14C-34HZX PWB



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Area	COLORADO	Well	COLFER 14C-34HZX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	COLFER 14C-34HZX PWB
Facility	SEC.34-T2N-R65W	Sidetrack from	COLFER 14C-34HZ AWB at 6629.00 MD

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	59.670	13.00	Tie-On
113.00	0.290	59.670	113.00	Begin GYRO Surveys
1663.00	0.900	153.130	1662.85	Tie-Into GYRO Surveys
1760.00	0.842	179.698	1759.84	Begin BHI OH MWD Surveys
7461.00	72.940	177.783	7254.65	Last BHI OH MWD Surveys
7514.00	78.211	177.213	7267.85	OH Projection to Bit