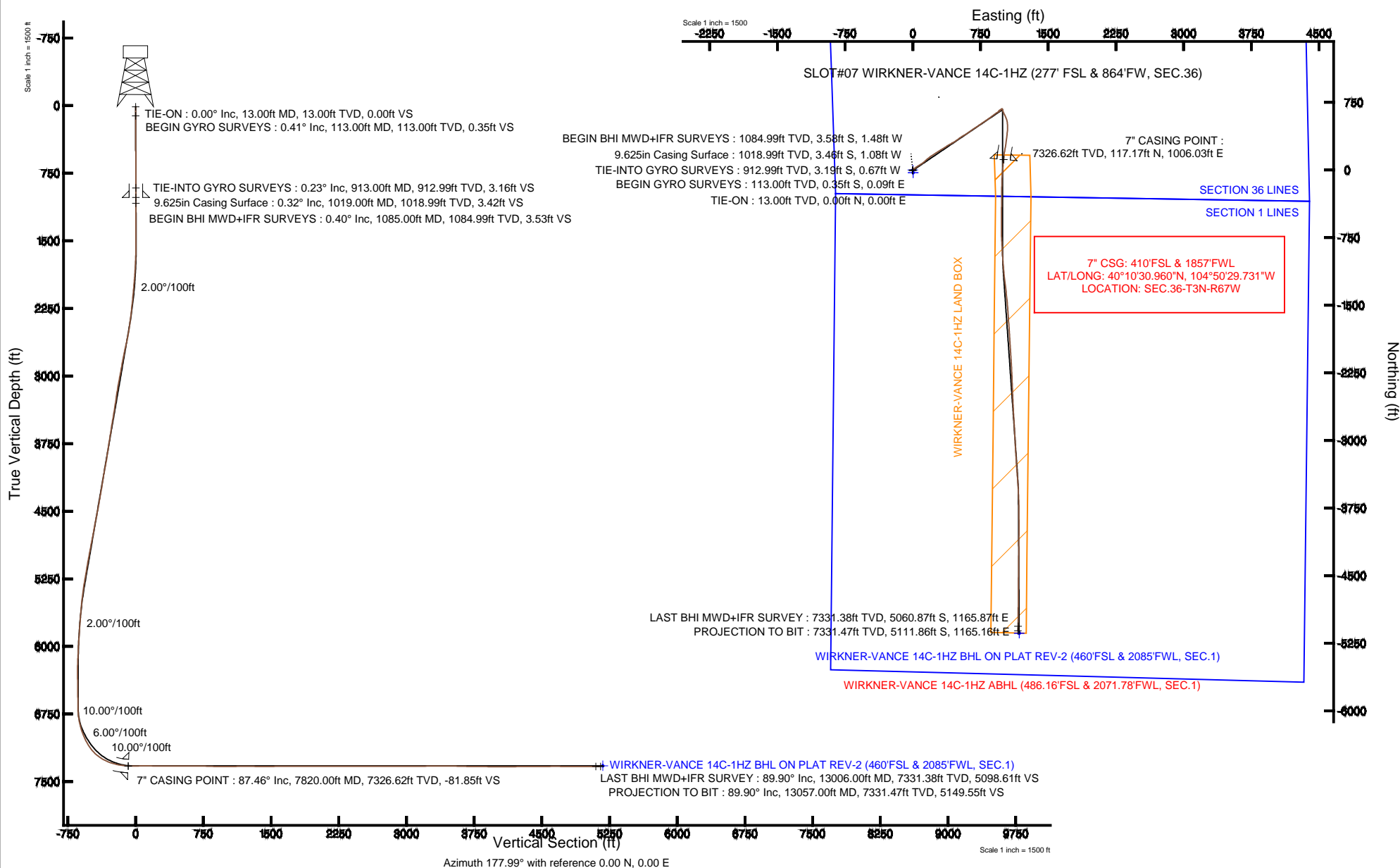


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
 Field: WELD COUNTY (KERR MCGEE) Well: WIRKNER-VANCE 14C-1HZ
 Facility: SEC.36-T3N-R67W Wellbore: WIRKNER-VANCE 14C-1HZ PWB

Plot reference wellpath is WIRKNER-VANCE 14C-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#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wlsjef02 on 1/17/2014





Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-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	1/17/2014 at 10:39:19
Convergence at slot	n/a	Database/Source file	WellArchitectDB/WIRKNER-VANCE_14C-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	-2945.35	435.39	3182974.57	1307250.94	40°10'29.802"N	104°50'42.691"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#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, 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	167.16°



Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (133 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	164.840	0.00	0.00	0.00	0.00	40°10'29.802"N	104°50'42.691"W	0.00	
13.00	0.000	164.840	13.00	0.00	0.00	0.00	40°10'29.802"N	104°50'42.691"W	0.00	TIE-ON
113.00	0.410	164.840	113.00	0.36	-0.35	0.09	40°10'29.799"N	104°50'42.690"W	0.41	BEGIN GYRO SURVEYS
213.00	0.150	148.610	213.00	0.84	-0.80	0.26	40°10'29.794"N	104°50'42.688"W	0.27	
313.00	0.130	154.760	313.00	1.07	-1.02	0.37	40°10'29.792"N	104°50'42.686"W	0.02	
413.00	0.120	184.680	413.00	1.28	-1.22	0.41	40°10'29.790"N	104°50'42.686"W	0.07	
513.00	0.270	185.370	513.00	1.61	-1.56	0.38	40°10'29.787"N	104°50'42.686"W	0.15	
613.00	0.320	208.820	613.00	2.04	-2.04	0.22	40°10'29.782"N	104°50'42.688"W	0.13	
713.00	0.340	228.590	712.99	2.39	-2.48	-0.13	40°10'29.777"N	104°50'42.693"W	0.12	
813.00	0.230	208.640	812.99	2.68	-2.86	-0.45	40°10'29.774"N	104°50'42.697"W	0.15	
913.00	0.230	218.750	912.99	2.96	-3.19	-0.67	40°10'29.770"N	104°50'42.700"W	0.04	TIE-INTO GYRO SURVEYS
1085.00	0.400	258.100	1084.99	3.16	-3.58	-1.48	40°10'29.767"N	104°50'42.710"W	0.15	BEGIN BHI MWD+IFR SURVEYS
1450.00	0.600	283.800	1449.98	2.29	-3.39	-4.58	40°10'29.769"N	104°50'42.750"W	0.08	
1562.00	1.300	86.800	1561.97	2.24	-3.18	-3.88	40°10'29.771"N	104°50'42.741"W	1.68	
1653.00	3.100	54.700	1652.90	1.47	-1.70	-0.84	40°10'29.785"N	104°50'42.702"W	2.32	
1745.00	4.300	51.000	1744.71	-1.00	1.91	3.87	40°10'29.821"N	104°50'42.641"W	1.33	
1836.00	4.900	43.800	1835.41	-4.64	6.86	9.21	40°10'29.870"N	104°50'42.572"W	0.91	
1928.00	6.800	42.000	1926.93	-9.94	13.75	15.58	40°10'29.938"N	104°50'42.490"W	2.07	
2019.00	7.700	50.700	2017.21	-15.76	21.61	23.90	40°10'30.016"N	104°50'42.383"W	1.56	
2110.00	10.600	56.300	2107.04	-21.46	30.12	35.58	40°10'30.100"N	104°50'42.233"W	3.33	
2201.00	12.100	58.700	2196.26	-27.46	39.72	50.70	40°10'30.195"N	104°50'42.038"W	1.73	
2292.00	13.400	57.000	2285.01	-34.11	50.42	67.69	40°10'30.300"N	104°50'41.819"W	1.49	
2382.00	13.800	59.500	2372.49	-40.96	61.55	85.68	40°10'30.410"N	104°50'41.587"W	0.79	
2473.00	14.700	53.600	2460.69	-48.87	73.91	104.33	40°10'30.532"N	104°50'41.347"W	1.88	
2564.00	16.500	50.900	2548.34	-59.21	88.91	123.65	40°10'30.681"N	104°50'41.098"W	2.13	
2655.00	19.500	47.200	2634.88	-72.51	107.38	144.83	40°10'30.863"N	104°50'40.825"W	3.53	
2747.00	19.900	52.500	2721.50	-86.71	127.35	168.52	40°10'31.060"N	104°50'40.520"W	1.99	
2828.00	18.900	52.200	2797.90	-98.00	143.78	189.83	40°10'31.223"N	104°50'40.246"W	1.24	
2919.00	19.200	57.600	2883.92	-109.23	160.84	214.11	40°10'31.391"N	104°50'39.933"W	1.96	
3010.00	19.100	56.300	2969.89	-119.54	177.11	239.13	40°10'31.552"N	104°50'39.610"W	0.48	
3100.00	19.600	56.900	3054.80	-130.01	193.53	264.02	40°10'31.714"N	104°50'39.290"W	0.60	
3190.00	18.900	57.100	3139.77	-140.24	209.69	288.91	40°10'31.874"N	104°50'38.969"W	0.78	
3285.00	16.400	59.900	3230.29	-149.50	224.77	313.43	40°10'32.023"N	104°50'38.653"W	2.78	
3379.00	17.000	57.500	3320.33	-158.06	238.81	336.51	40°10'32.162"N	104°50'38.356"W	0.97	
3473.00	17.400	57.100	3410.13	-167.50	253.83	359.90	40°10'32.310"N	104°50'38.055"W	0.44	
3567.00	18.900	56.800	3499.45	-177.62	269.80	384.44	40°10'32.468"N	104°50'37.738"W	1.60	
3661.00	18.800	63.400	3588.41	-186.52	284.92	410.72	40°10'32.618"N	104°50'37.400"W	2.27	
3756.00	20.000	59.500	3678.02	-195.09	300.02	438.41	40°10'32.767"N	104°50'37.043"W	1.86	
3945.00	14.300	56.400	3858.55	-213.19	329.37	485.74	40°10'33.057"N	104°50'36.433"W	3.05	
4039.00	16.500	50.500	3949.17	-223.29	344.29	505.71	40°10'33.204"N	104°50'36.176"W	2.87	
4133.00	19.900	55.600	4038.46	-235.16	361.82	529.22	40°10'33.377"N	104°50'35.873"W	3.99	
4228.00	19.300	61.100	4127.97	-245.45	378.55	556.31	40°10'33.543"N	104°50'35.524"W	2.04	
4416.00	16.800	54.300	4306.72	-264.60	409.42	605.59	40°10'33.848"N	104°50'34.889"W	1.74	
4511.00	18.200	56.000	4397.32	-275.29	425.73	629.03	40°10'34.009"N	104°50'34.587"W	1.57	
4605.00	20.200	54.500	4486.09	-286.85	443.37	654.42	40°10'34.183"N	104°50'34.260"W	2.19	



Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (133 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4699.00	20.500	56.900	4574.22	-298.80	461.78	681.42	40°10'34.365"N	104°50'33.912"W	0.94	
4794.00	19.300	57.700	4663.55	-309.79	479.25	708.63	40°10'34.538"N	104°50'33.562"W	1.30	
4888.00	19.100	54.800	4752.32	-320.82	496.42	734.33	40°10'34.708"N	104°50'33.231"W	1.04	
4981.00	19.500	54.800	4840.10	-332.51	514.14	759.44	40°10'34.883"N	104°50'32.907"W	0.43	
5075.00	19.700	56.600	4928.65	-344.04	531.90	785.49	40°10'35.058"N	104°50'32.572"W	0.68	
5170.00	19.600	56.400	5018.12	-355.31	549.54	812.13	40°10'35.232"N	104°50'32.228"W	0.13	
5266.00	16.700	54.500	5109.33	-366.34	566.46	836.78	40°10'35.400"N	104°50'31.911"W	3.08	
5361.00	16.800	52.900	5200.30	-377.24	582.67	858.84	40°10'35.560"N	104°50'31.627"W	0.50	
5455.00	16.200	53.400	5290.43	-388.10	598.68	880.20	40°10'35.718"N	104°50'31.351"W	0.66	
5551.00	13.200	52.200	5383.28	-398.12	613.39	899.62	40°10'35.863"N	104°50'31.101"W	3.14	
5645.00	12.000	55.800	5475.01	-406.21	625.46	916.18	40°10'35.983"N	104°50'30.888"W	1.53	
5741.00	10.800	58.800	5569.12	-412.68	635.73	932.13	40°10'36.084"N	104°50'30.682"W	1.39	
5835.00	8.000	53.000	5661.85	-418.13	644.23	944.89	40°10'36.168"N	104°50'30.518"W	3.14	
5931.00	5.900	48.300	5757.14	-423.25	651.53	953.91	40°10'36.240"N	104°50'30.402"W	2.26	
6025.00	6.000	43.700	5850.63	-428.29	658.30	960.91	40°10'36.307"N	104°50'30.312"W	0.52	
6120.00	5.500	53.300	5945.16	-432.87	664.61	967.99	40°10'36.369"N	104°50'30.220"W	1.14	
6215.00	5.800	57.800	6039.70	-436.30	669.89	975.70	40°10'36.422"N	104°50'30.121"W	0.56	
6309.00	4.700	52.200	6133.30	-439.50	674.78	982.77	40°10'36.470"N	104°50'30.030"W	1.29	
6404.00	2.600	69.000	6228.11	-441.45	677.94	987.85	40°10'36.501"N	104°50'29.965"W	2.46	
6499.00	1.500	108.100	6323.05	-441.12	678.32	991.05	40°10'36.505"N	104°50'29.923"W	1.81	
6594.00	0.900	196.900	6418.03	-439.83	677.22	992.01	40°10'36.494"N	104°50'29.911"W	1.82	
6815.00	0.500	178.000	6639.02	-437.37	674.60	991.54	40°10'36.468"N	104°50'29.917"W	0.21	
6878.00	1.600	164.500	6702.01	-436.23	673.47	991.79	40°10'36.457"N	104°50'29.914"W	1.78	
6973.00	8.900	161.400	6796.54	-427.58	665.22	994.49	40°10'36.376"N	104°50'29.879"W	7.69	
7019.00	12.100	159.800	6841.77	-419.25	657.32	997.29	40°10'36.297"N	104°50'29.843"W	6.98	
7068.00	16.000	159.200	6889.29	-407.47	646.18	1001.46	40°10'36.187"N	104°50'29.789"W	7.96	
7163.00	23.000	154.000	6978.79	-376.39	617.22	1014.26	40°10'35.901"N	104°50'29.624"W	7.58	
7194.00	26.100	152.400	7006.99	-363.89	605.74	1020.08	40°10'35.788"N	104°50'29.549"W	10.23	
7257.00	29.900	157.200	7062.61	-335.01	578.97	1032.59	40°10'35.523"N	104°50'29.388"W	7.01	
7356.00	38.200	171.400	7144.70	-280.00	525.77	1046.78	40°10'34.997"N	104°50'29.206"W	11.56	
7403.00	44.600	177.400	7179.95	-249.22	494.88	1049.70	40°10'34.692"N	104°50'29.168"W	16.01	
7450.00	52.400	182.200	7211.08	-214.94	459.72	1049.74	40°10'34.345"N	104°50'29.167"W	18.26	
7497.00	58.000	186.000	7237.89	-178.06	421.26	1046.94	40°10'33.965"N	104°50'29.204"W	13.64	
7545.00	63.200	187.000	7261.45	-138.62	379.72	1042.19	40°10'33.554"N	104°50'29.265"W	10.98	
7592.00	67.900	187.300	7280.90	-98.42	337.28	1036.87	40°10'33.135"N	104°50'29.333"W	10.02	
7640.00	73.300	187.700	7296.84	-55.99	292.41	1030.96	40°10'32.691"N	104°50'29.409"W	11.28	
7687.00	77.500	190.500	7308.68	-13.82	247.52	1023.76	40°10'32.248"N	104°50'29.502"W	10.63	
7735.00	80.800	189.100	7317.72	29.68	201.07	1015.74	40°10'31.789"N	104°50'29.606"W	7.45	
7772.00	83.200	186.400	7322.87	63.98	164.77	1010.80	40°10'31.430"N	104°50'29.669"W	9.71	
7787.00	84.900	185.600	7324.42	78.10	149.94	1009.24	40°10'31.283"N	104°50'29.689"W	12.51	
7820.00†	87.462	185.600	7326.62	109.33	117.17	1006.03	40°10'30.960"N	104°50'29.731"W	7.76	7" CASING POINT
7872.00	91.500	185.600	7327.09	158.65	65.43	1000.95	40°10'30.448"N	104°50'29.796"W	7.76	
7967.00	90.700	184.600	7325.27	249.01	-29.17	992.51	40°10'29.514"N	104°50'29.905"W	1.35	
8061.00	89.300	181.800	7325.27	339.34	-123.01	987.27	40°10'28.586"N	104°50'29.973"W	3.33	
8156.00	88.900	180.200	7326.76	431.57	-217.99	985.61	40°10'27.648"N	104°50'29.994"W	1.74	



Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH DATA (133 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8250.00	89.900	180.600	7327.74	523.06	-311.98	984.95	40°10'26.719"N	104°50'30.002"W	1.15	
8345.00	90.700	181.000	7327.25	615.38	-406.97	983.62	40°10'25.780"N	104°50'30.020"W	0.94	
8440.00	89.500	179.900	7327.08	707.83	-501.96	982.88	40°10'24.841"N	104°50'30.029"W	1.71	
8535.00	90.300	180.900	7327.25	800.31	-596.95	982.22	40°10'23.903"N	104°50'30.038"W	1.35	
8630.00	89.500	178.900	7327.41	892.96	-691.95	982.38	40°10'22.964"N	104°50'30.036"W	2.27	
8724.00	88.100	177.200	7329.38	985.24	-785.87	985.58	40°10'22.036"N	104°50'29.995"W	2.34	
8819.00	89.800	177.000	7331.12	1078.80	-880.73	990.38	40°10'21.098"N	104°50'29.933"W	1.80	
8914.00	89.800	176.000	7331.45	1172.54	-975.55	996.18	40°10'20.161"N	104°50'29.858"W	1.05	
9008.00	90.900	175.400	7330.88	1265.49	-1069.28	1003.23	40°10'19.235"N	104°50'29.767"W	1.33	
9103.00	90.500	174.500	7329.72	1359.61	-1163.90	1011.59	40°10'18.300"N	104°50'29.660"W	1.04	
9197.00	88.900	172.600	7330.21	1453.01	-1257.30	1022.15	40°10'17.377"N	104°50'29.524"W	2.64	
9291.00	89.800	173.600	7331.28	1546.50	-1350.61	1033.44	40°10'16.455"N	104°50'29.378"W	1.43	
9387.00	90.500	174.300	7331.03	1641.83	-1446.07	1043.56	40°10'15.512"N	104°50'29.248"W	1.03	
9482.00	90.500	175.600	7330.20	1735.94	-1540.70	1051.92	40°10'14.577"N	104°50'29.140"W	1.37	
9576.00	90.600	176.400	7329.29	1828.82	-1634.47	1058.48	40°10'13.650"N	104°50'29.056"W	0.86	
9671.00	89.100	175.900	7329.54	1922.65	-1729.25	1064.86	40°10'12.713"N	104°50'28.974"W	1.66	
9765.00	89.900	176.200	7330.36	2015.52	-1823.02	1071.33	40°10'11.787"N	104°50'28.890"W	0.91	
9860.00	90.700	176.400	7329.87	2109.31	-1917.82	1077.46	40°10'10.850"N	104°50'28.812"W	0.87	
9955.00	90.300	176.800	7329.04	2203.02	-2012.65	1083.10	40°10'09.913"N	104°50'28.739"W	0.60	
10050.00	89.700	176.400	7329.04	2296.73	-2107.48	1088.73	40°10'08.976"N	104°50'28.667"W	0.76	
10144.00	89.400	176.800	7329.78	2389.46	-2201.31	1094.31	40°10'08.048"N	104°50'28.595"W	0.53	
10238.00	90.200	177.900	7330.10	2481.97	-2295.21	1098.65	40°10'07.120"N	104°50'28.539"W	1.45	
10333.00	90.300	178.100	7329.69	2575.27	-2390.15	1101.97	40°10'06.182"N	104°50'28.496"W	0.24	
10429.00	90.000	177.400	7329.44	2669.64	-2486.07	1105.74	40°10'05.234"N	104°50'28.448"W	0.79	
10523.00	90.200	177.200	7329.27	2762.17	-2579.97	1110.16	40°10'04.306"N	104°50'28.391"W	0.30	
10712.00	90.000	176.700	7328.94	2948.42	-2768.70	1120.22	40°10'02.441"N	104°50'28.261"W	0.28	
10902.00	90.000	177.000	7328.94	3135.70	-2958.41	1130.66	40°10'00.567"N	104°50'28.127"W	0.16	
11187.00	90.600	176.500	7327.45	3416.72	-3242.95	1146.82	40°09'57.755"N	104°50'27.919"W	0.27	
11280.00	90.500	175.200	7326.56	3508.64	-3335.70	1153.55	40°09'56.838"N	104°50'27.832"W	1.40	
11375.00	89.500	175.600	7326.56	3602.66	-3430.39	1161.17	40°09'55.902"N	104°50'27.734"W	1.13	
11471.00	88.400	176.800	7328.32	3697.45	-3526.16	1167.53	40°09'54.956"N	104°50'27.652"W	1.70	
11566.00	89.000	177.700	7330.47	3790.95	-3621.03	1172.08	40°09'54.019"N	104°50'27.594"W	1.14	
11662.00	89.600	179.600	7331.65	3885.02	-3716.99	1174.35	40°09'53.070"N	104°50'27.565"W	2.08	
11851.00	89.100	179.300	7333.79	4069.67	-3905.97	1176.16	40°09'51.203"N	104°50'27.541"W	0.31	
11946.00	90.100	180.600	7334.45	4162.31	-4000.96	1176.24	40°09'50.264"N	104°50'27.540"W	1.73	
12041.00	90.500	180.500	7333.96	4254.73	-4095.95	1175.33	40°09'49.325"N	104°50'27.552"W	0.43	
12230.00	90.700	180.900	7331.98	4438.46	-4284.93	1173.02	40°09'47.458"N	104°50'27.582"W	0.24	
12325.00	89.900	180.200	7331.48	4530.88	-4379.92	1172.11	40°09'46.519"N	104°50'27.594"W	1.12	
12514.00	90.700	181.300	7330.49	4714.58	-4568.90	1169.64	40°09'44.652"N	104°50'27.626"W	0.72	
12609.00	89.200	179.800	7330.57	4806.99	-4663.89	1168.72	40°09'43.713"N	104°50'27.638"W	2.23	
12798.00	90.200	180.500	7331.56	4991.15	-4852.88	1168.23	40°09'41.845"N	104°50'27.644"W	0.65	
13006.00	89.900	180.800	7331.38	5193.41	-5060.87	1165.87	40°09'39.790"N	104°50'27.675"W	0.20	LAST BHI MWD+IFR SURVEY
13057.00	89.900	180.800	7331.47	5242.97	-5111.86	1165.16	40°09'39.286"N	104°50'27.684"W	0.00	PROJECTION TO BIT



Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-1HZ AWB
Facility	SEC.36-T3N-R67W		

HOLE & CASING SECTIONS - Ref Wellbore: WIRKNER-VANCE 14C-1HZ AWB Ref Wellpath: WIRKNER-VANCE 14C-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	-3.46	-1.08
9.625in Casing Surface	13.00	1019.00	1006.00	13.00	1018.99	0.00	0.00	-3.46	-1.08
8.75in Open Hole	1019.00	7840.00	6821.00	1018.99	7327.23	-3.46	-1.08	97.28	1004.08
7in Casing Intermediate	13.00	7820.00	7807.00	13.00	7326.62	0.00	0.00	117.17	1006.03
6.125in Open Hole	7820.00	13057.00	5237.00	7326.62	7331.47	117.17	1006.03	-5111.86	1165.16

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WIRKNER-VANCE 14C-1HZ BHL ON PLAT REV-2 (460'FSL & 2085'FWL, SEC.1)		7324.00	-5138.02	1178.38	3184190.80	1302121.99	40°09'39.028"N	104°50'27.514"W	point
BAKER RED V 1-14A		7325.00	-4939.49	1015.70	3184026.67	1302319.31	40°09'40.990"N	104°50'29.609"W	circle
WIRKNER-VANCE 14C-1HZ BHL ON PLAT REV-1 (460'FSL & 2085'FWL, SEC.1)		7329.00	-5138.02	1178.38	3184190.80	1302121.99	40°09'39.028"N	104°50'27.514"W	point
WIRKNER-VANCE 14C-1HZ LAND BOX		7350.00	0.00	0.00	3182974.57	1307250.94	40°10'29.802"N	104°50'42.691"W	polygon
WIRKNER SECTION 1 LINES		7400.00	-29.55	3.34	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon
WIRKNER SECTION 36 LINES		7400.00	-29.55	3.34	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: WIRKNER-VANCE 14C-1HZ AWB Ref Wellpath: WIRKNER-VANCE 14C-1HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	913.00	Generic gyro - continuous (Standard)	MS GYRODATA SURVEYS <113-913>	WIRKNER-VANCE 14C-1HZ AWB
913.00	7787.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1085-7787>	WIRKNER-VANCE 14C-1HZ AWB
7787.00	13006.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7872-13006>	WIRKNER-VANCE 14C-1HZ AWB
13006.00	13057.00	Blind Drilling (std)	Projection to bit	WIRKNER-VANCE 14C-1HZ AWB



Actual Wellpath Report

WIRKNER-VANCE 14C-1HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 WIRKNER-VANCE 14C-1HZ (277' FSL & 864'FW, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 14C-1HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 14C-1HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	164.840	13.00	TIE-ON
113.00	0.410	164.840	113.00	BEGIN GYRO SURVEYS
913.00	0.230	218.750	912.99	TIE-INTO GYRO SURVEYS
1085.00	0.400	258.100	1084.99	BEGIN BHI MWD+IFR SURVEYS
7820.00	87.462	185.600	7326.62	7" CASING POINT
13006.00	89.900	180.800	7331.38	LAST BHI MWD+IFR SURVEY
13057.00	89.900	180.800	7331.47	PROJECTION TO BIT