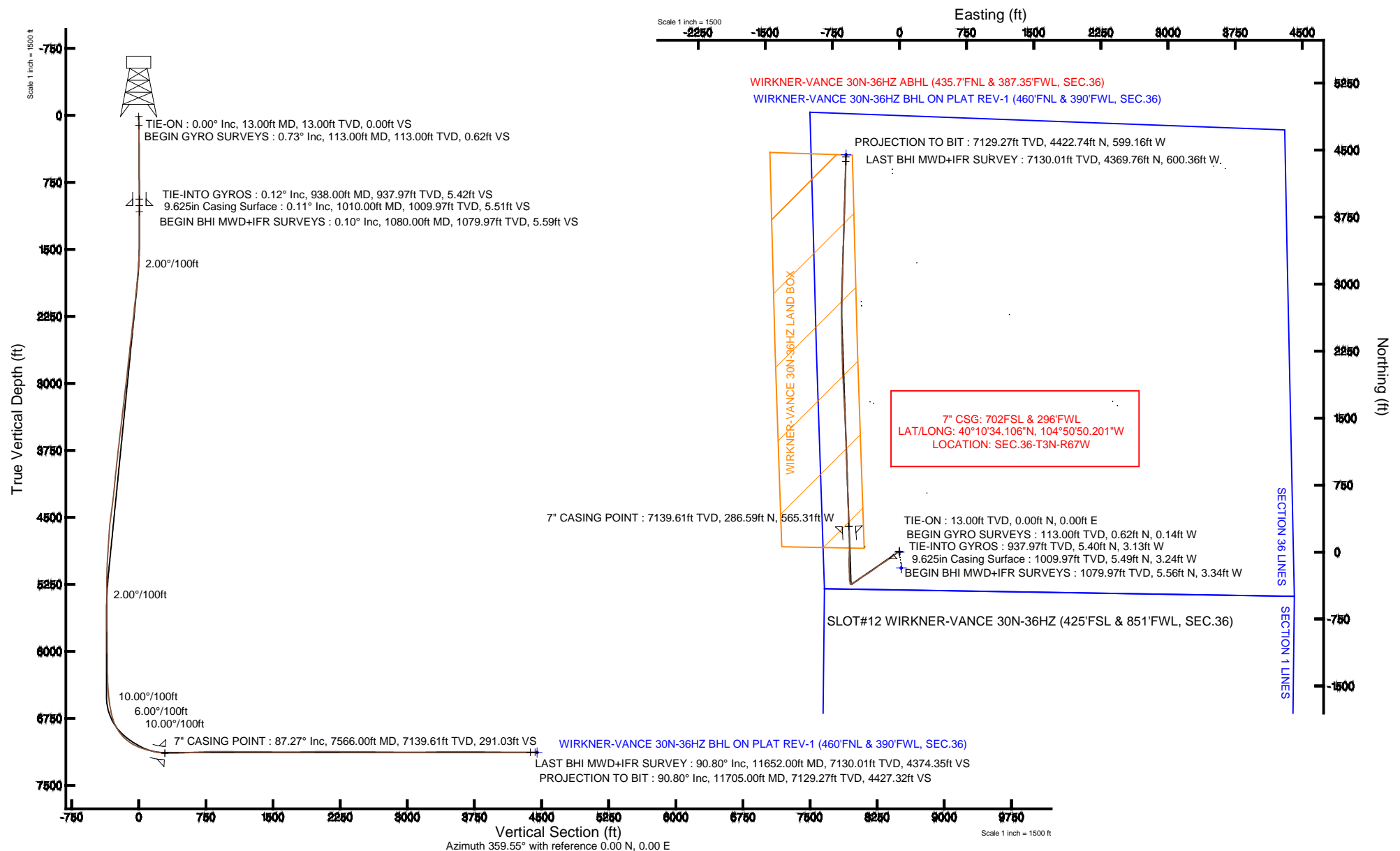


Location:	COLORADO	Slot:	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Field:	WELD COUNTY (KERR MCGEE)	Well:	WIRKNER-VANCE 30N-36HZ
Facility:	SEC.36-T3N-R67W	Wellbore:	WIRKNER-VANCE 30N-36HZ PWB

Plot reference wellpath is WIRKNER-VANCE 30N-36HZ (REV-C.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#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wilsjef02 on 1/29/2014





# Actual Wellpath Report

WIRKNER-VANCE 30N-36HZ AWP

Page 1 of 6



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ 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	1/29/2014 at 16:16:27
Convergence at slot	n/a	Database/Source file	WellArchitectDB/WIRKNER-VANCE_30N-36HZ_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2796.39	417.77	3182955.85	1307399.76	40°10'31.274"N	104°50'42.918"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#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'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	352.29°



# Actual Wellpath Report

WIRKNER-VANCE 30N-36HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ AWB
Facility	SEC.36-T3N-R67W		

## WELLPATH DATA (102 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	347.230	0.00	0.00	0.00	0.00	40°10'31.274"N	104°50'42.918"W	0.00	
13.00	0.000	347.230	13.00	0.00	0.00	0.00	40°10'31.274"N	104°50'42.918"W	0.00	TIE-ON
113.00	0.730	347.230	113.00	0.63	0.62	-0.14	40°10'31.280"N	104°50'42.920"W	0.73	BEGIN GYRO SURVEYS
213.00	0.640	348.480	212.99	1.83	1.79	-0.39	40°10'31.292"N	104°50'42.923"W	0.09	
313.00	0.600	338.060	312.98	2.89	2.82	-0.70	40°10'31.302"N	104°50'42.927"W	0.12	
413.00	0.470	314.200	412.98	3.72	3.59	-1.19	40°10'31.310"N	104°50'42.933"W	0.26	
513.00	0.400	330.010	512.98	4.37	4.18	-1.66	40°10'31.315"N	104°50'42.939"W	0.14	
613.00	0.340	321.690	612.98	4.95	4.72	-2.02	40°10'31.321"N	104°50'42.944"W	0.08	
713.00	0.260	327.710	712.97	5.41	5.14	-2.32	40°10'31.325"N	104°50'42.948"W	0.09	
813.00	0.340	287.510	812.97	5.74	5.42	-2.73	40°10'31.328"N	104°50'42.953"W	0.22	
913.00	0.150	216.210	912.97	5.77	5.41	-3.09	40°10'31.327"N	104°50'42.958"W	0.32	
938.00	0.120	311.210	937.97	5.77	5.40	-3.13	40°10'31.327"N	104°50'42.958"W	0.80	TIE-INTO GYROS
1080.00	0.100	302.700	1079.97	5.96	5.56	-3.34	40°10'31.329"N	104°50'42.961"W	0.02	BEGIN BHI MWD+IFR SURVEYS
1353.00	0.300	358.200	1352.97	6.83	6.41	-3.56	40°10'31.337"N	104°50'42.964"W	0.09	
1444.00	2.400	260.100	1443.94	6.99	6.32	-5.45	40°10'31.336"N	104°50'42.988"W	2.70	
1554.00	4.300	240.100	1553.75	5.35	3.86	-11.29	40°10'31.312"N	104°50'43.063"W	2.00	
1645.00	5.700	229.200	1644.41	1.59	-0.79	-17.67	40°10'31.266"N	104°50'43.146"W	1.85	
1735.00	7.200	230.400	1733.83	-3.83	-7.31	-25.40	40°10'31.202"N	104°50'43.245"W	1.67	
1826.00	8.500	232.100	1823.98	-10.22	-15.07	-35.10	40°10'31.125"N	104°50'43.370"W	1.45	
1917.00	9.600	235.200	1913.85	-17.06	-23.53	-46.64	40°10'31.041"N	104°50'43.519"W	1.32	
2098.00	10.000	230.000	2092.21	-32.33	-42.25	-71.07	40°10'30.856"N	104°50'43.834"W	0.54	
2281.00	10.300	235.100	2272.35	-48.29	-61.82	-96.66	40°10'30.663"N	104°50'44.163"W	0.52	
2464.00	11.200	234.400	2452.13	-64.07	-81.53	-124.53	40°10'30.468"N	104°50'44.522"W	0.50	
2646.00	11.600	234.600	2630.54	-80.84	-102.42	-153.82	40°10'30.262"N	104°50'44.900"W	0.22	
2830.00	12.200	241.700	2810.60	-96.27	-122.35	-186.02	40°10'30.065"N	104°50'45.314"W	0.86	
2922.00	12.000	236.900	2900.56	-103.79	-132.19	-202.59	40°10'29.968"N	104°50'45.528"W	1.11	
3013.00	10.900	235.800	2989.74	-111.68	-142.19	-217.63	40°10'29.869"N	104°50'45.722"W	1.23	
3106.00	12.400	233.300	3080.83	-120.45	-153.10	-232.91	40°10'29.761"N	104°50'45.919"W	1.70	
3297.00	10.400	231.000	3268.05	-139.34	-176.21	-262.76	40°10'29.533"N	104°50'46.303"W	1.07	
3391.00	11.400	237.400	3360.36	-147.65	-186.55	-277.18	40°10'29.430"N	104°50'46.489"W	1.67	
3486.00	12.100	234.100	3453.37	-156.31	-197.45	-293.15	40°10'29.323"N	104°50'46.695"W	1.02	
3580.00	11.500	233.400	3545.38	-165.49	-208.81	-308.65	40°10'29.210"N	104°50'46.894"W	0.66	
3676.00	11.100	233.300	3639.52	-174.59	-220.04	-323.75	40°10'29.100"N	104°50'47.089"W	0.42	
3771.00	12.000	237.400	3732.59	-183.17	-230.83	-339.40	40°10'28.993"N	104°50'47.290"W	1.28	
3868.00	11.200	237.800	3827.61	-191.32	-241.28	-355.87	40°10'28.890"N	104°50'47.502"W	0.83	
3963.00	12.900	239.500	3920.52	-199.25	-251.58	-372.81	40°10'28.788"N	104°50'47.721"W	1.83	
4153.00	10.900	240.800	4106.42	-214.05	-271.11	-406.77	40°10'28.595"N	104°50'48.158"W	1.06	
4247.00	10.500	236.300	4198.79	-221.06	-280.20	-421.65	40°10'28.505"N	104°50'48.350"W	0.99	
4342.00	11.400	231.400	4292.06	-229.67	-290.86	-436.19	40°10'28.400"N	104°50'48.537"W	1.36	
4436.00	11.700	230.500	4384.16	-239.46	-302.72	-450.81	40°10'28.283"N	104°50'48.726"W	0.37	
4530.00	11.300	229.400	4476.27	-249.48	-314.77	-465.16	40°10'28.163"N	104°50'48.910"W	0.49	
4624.00	10.300	234.400	4568.61	-258.41	-325.66	-478.98	40°10'28.056"N	104°50'49.088"W	1.46	
4718.00	9.300	243.600	4661.24	-264.77	-333.93	-492.62	40°10'27.974"N	104°50'49.264"W	1.97	
4813.00	8.200	243.000	4755.13	-269.47	-340.42	-505.53	40°10'27.910"N	104°50'49.431"W	1.16	
4907.00	7.700	243.900	4848.23	-273.67	-346.23	-517.16	40°10'27.852"N	104°50'49.580"W	0.55	

### REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ AWB
Facility	SEC.36-T3N-R67W		

### WELLPATH DATA (102 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5002.00	6.800	233.400	4942.47	-278.40	-352.38	-527.39	40°10'27.792"N	104°50'49.712"W	1.68	
5097.00	4.300	237.500	5037.02	-282.61	-357.65	-534.91	40°10'27.740"N	104°50'49.809"W	2.66	
5191.00	2.500	239.400	5130.85	-284.88	-360.59	-539.65	40°10'27.711"N	104°50'49.870"W	1.92	
5286.00	0.400	307.300	5225.82	-285.45	-361.44	-541.70	40°10'27.702"N	104°50'49.896"W	2.50	
5759.00	1.300	283.400	5698.76	-282.35	-359.20	-548.23	40°10'27.724"N	104°50'49.981"W	0.20	
5853.00	0.900	51.300	5792.75	-281.59	-358.49	-548.69	40°10'27.731"N	104°50'49.986"W	2.11	
6327.00	0.700	330.900	6266.72	-276.97	-353.63	-547.19	40°10'27.779"N	104°50'49.967"W	0.22	
6613.00	7.100	346.400	6551.91	-257.75	-334.91	-552.20	40°10'27.964"N	104°50'50.032"W	2.25	
6707.00	10.700	344.800	6644.77	-243.31	-320.84	-555.86	40°10'28.103"N	104°50'50.079"W	3.84	
6801.00	14.900	355.300	6736.42	-222.58	-300.36	-559.14	40°10'28.306"N	104°50'50.121"W	5.09	
6848.00	19.700	1.600	6781.29	-208.72	-286.41	-559.41	40°10'28.444"N	104°50'50.125"W	10.95	
6896.00	24.900	359.900	6825.68	-190.70	-268.20	-559.21	40°10'28.624"N	104°50'50.122"W	10.92	
6990.00	36.600	357.000	6906.33	-142.99	-220.26	-560.71	40°10'29.097"N	104°50'50.141"W	12.54	
7085.00	47.000	359.100	6977.06	-80.10	-157.07	-562.75	40°10'29.722"N	104°50'50.168"W	11.04	
7180.00	59.500	0.900	7033.79	-4.84	-81.10	-562.65	40°10'30.472"N	104°50'50.166"W	13.24	
7274.00	68.800	2.600	7074.73	78.50	3.35	-560.02	40°10'31.307"N	104°50'50.133"W	10.03	
7369.00	74.300	1.100	7104.79	167.33	93.39	-557.13	40°10'32.197"N	104°50'50.095"W	5.98	
7464.00	78.600	356.900	7127.05	259.01	185.68	-558.77	40°10'33.109"N	104°50'50.116"W	6.24	
7522.00	83.500	355.500	7136.07	316.15	242.83	-562.57	40°10'33.674"N	104°50'50.165"W	8.78	
7566.00†	87.270	357.327	7139.61	359.89	286.59	-565.31	40°10'34.106"N	104°50'50.201"W	9.52	7" CASING POINT
7592.00	89.500	358.400	7140.34	385.75	312.56	-566.28	40°10'34.363"N	104°50'50.213"W	9.52	
7688.00	91.500	358.000	7139.50	481.23	408.51	-569.30	40°10'35.311"N	104°50'50.252"W	2.12	
7782.00	92.600	357.900	7136.14	574.71	502.38	-572.66	40°10'36.239"N	104°50'50.295"W	1.18	
7876.00	92.800	358.000	7131.71	668.15	596.22	-576.01	40°10'37.166"N	104°50'50.339"W	0.24	
7970.00	92.600	358.300	7127.29	761.55	690.07	-579.05	40°10'38.093"N	104°50'50.378"W	0.38	
8065.00	91.600	358.700	7123.80	855.93	784.97	-581.53	40°10'39.031"N	104°50'50.410"W	1.13	
8159.00	89.700	357.900	7122.74	949.40	878.92	-584.32	40°10'39.959"N	104°50'50.446"W	2.19	
8254.00	89.700	358.000	7123.24	1043.94	973.85	-587.72	40°10'40.898"N	104°50'50.490"W	0.11	
8349.00	89.800	358.900	7123.65	1138.39	1068.82	-590.29	40°10'41.836"N	104°50'50.523"W	0.95	
8538.00	90.100	357.600	7123.81	1326.36	1257.72	-596.06	40°10'43.703"N	104°50'50.597"W	0.71	
8633.00	89.200	357.400	7124.40	1420.96	1352.63	-600.20	40°10'44.641"N	104°50'50.651"W	0.97	
8728.00	89.200	356.700	7125.72	1515.62	1447.50	-605.09	40°10'45.578"N	104°50'50.714"W	0.74	
8823.00	89.400	356.800	7126.88	1610.33	1542.34	-610.48	40°10'46.515"N	104°50'50.783"W	0.24	
9013.00	90.600	357.300	7126.88	1799.67	1732.08	-620.25	40°10'48.390"N	104°50'50.909"W	0.68	
9108.00	90.900	356.900	7125.64	1894.32	1826.95	-625.06	40°10'49.328"N	104°50'50.971"W	0.53	
9202.00	90.900	357.800	7124.16	1987.94	1920.84	-629.41	40°10'50.256"N	104°50'51.027"W	0.96	
9297.00	91.100	357.300	7122.50	2082.53	2015.73	-633.47	40°10'51.193"N	104°50'51.079"W	0.57	
9392.00	89.900	358.300	7121.68	2177.08	2110.66	-637.11	40°10'52.131"N	104°50'51.126"W	1.64	
9486.00	88.600	358.500	7122.91	2270.54	2204.61	-639.74	40°10'53.060"N	104°50'51.160"W	1.40	
9581.00	90.200	358.600	7123.90	2364.96	2299.57	-642.14	40°10'53.998"N	104°50'51.191"W	1.69	
9676.00	89.400	359.000	7124.23	2459.35	2394.55	-644.13	40°10'54.937"N	104°50'51.217"W	0.94	
9770.00	89.800	359.300	7124.89	2552.67	2488.54	-645.52	40°10'55.866"N	104°50'51.235"W	0.53	
9865.00	89.400	359.300	7125.55	2646.96	2583.53	-646.69	40°10'56.804"N	104°50'51.250"W	0.42	
9960.00	89.300	0.800	7126.63	2741.08	2678.52	-646.60	40°10'57.743"N	104°50'51.249"W	1.58	
10055.00	89.500	1.900	7127.62	2834.88	2773.49	-644.36	40°10'58.682"N	104°50'51.220"W	1.18	



# Actual Wellpath Report

WIRKNER-VANCE 30N-36HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ AWB
Facility	SEC.36-T3N-R67W		

## WELLPATH DATA (102 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10150.00	88.900	1.600	7128.95	2928.58	2868.43	-641.46	40°10'59.620"N	104°50'51.183"W	0.71	
10244.00	89.600	1.300	7130.18	3021.37	2962.39	-639.09	40°11'00.548"N	104°50'51.152"W	0.81	
10339.00	90.400	1.500	7130.18	3115.17	3057.36	-636.76	40°11'01.487"N	104°50'51.122"W	0.87	
10624.00	91.400	1.500	7125.70	3396.46	3342.23	-629.30	40°11'04.302"N	104°50'51.026"W	0.35	
10718.00	90.200	1.800	7124.39	3489.19	3436.18	-626.60	40°11'05.230"N	104°50'50.991"W	1.32	
10910.00	89.700	2.200	7124.56	3678.44	3628.06	-619.90	40°11'07.126"N	104°50'50.905"W	0.33	
11099.00	89.600	1.500	7125.71	3864.80	3816.96	-613.80	40°11'08.993"N	104°50'50.827"W	0.37	
11288.00	89.000	1.500	7128.02	4051.35	4005.88	-608.85	40°11'10.860"N	104°50'50.763"W	0.32	
11382.00	89.700	1.200	7129.09	4144.17	4099.84	-606.64	40°11'11.789"N	104°50'50.734"W	0.81	
11478.00	89.200	1.400	7130.01	4238.98	4195.81	-604.46	40°11'12.737"N	104°50'50.706"W	0.56	
11652.00	90.800	1.300	7130.01	4410.80	4369.76	-600.36	40°11'14.456"N	104°50'50.654"W	0.92	LAST BHI MWD+IFR SURVEY
11705.00	90.800	1.300	7129.27	4463.14	4422.74	-599.16	40°11'14.980"N	104°50'50.638"W	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: WIRKNER-VANCE 30N-36HZ AWB Ref Wellpath: WIRKNER-VANCE 30N-36HZ 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	1010.00	997.00	13.00	1009.97	0.00	0.00	5.49	-3.24
9.625in Casing Surface	13.00	1010.00	997.00	13.00	1009.97	0.00	0.00	5.49	-3.24
8.75in Open Hole	1010.00	7576.00	6566.00	1009.97	7140.01	5.49	-3.24	296.57	-565.74
7in Casing Intermediate	13.00	7566.00	7553.00	13.00	7139.61	0.00	0.00	286.59	-565.31
6.125in Open Hole	7566.00	11705.00	4139.00	7139.61	7129.27	286.59	-565.31	4422.74	-599.16



# Actual Wellpath Report

WIRKNER-VANCE 30N-36HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#12 WIRKNER-VANCE 30N-36HZ (425'FSL & 851'FWL, SEC.36)
Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ AWB
Facility	SEC.36-T3N-R67W		

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WIRKNER-VANCE 30N-36HZ BHL ON PLAT REV-1 (460'FNL & 390'FWL, SEC.36)		7133.00	4447.04	-596.51	3182326.55	1311842.07	40°11'15.220"N	104°50'50.604"W	point
WIRKNER-VANCE 30N-36HZ LAND BOX		7200.00	0.00	0.00	3182955.85	1307399.76	40°10'31.274"N	104°50'42.918"W	polygon
WIRKNER SECTION 1 LINES		7400.00	-178.51	20.96	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon
WIRKNER SECTION 36 LINES		7400.00	-178.51	20.96	3182978.13	1307221.42	40°10'29.510"N	104°50'42.648"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: WIRKNER-VANCE 30N-36HZ AWB Ref Wellpath: WIRKNER-VANCE 30N-36HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	938.00	Generic gyro - continuous (Standard)	MS GYRODATA SURVEYS <113-938>	WIRKNER-VANCE 30N-36HZ AWB
938.00	7522.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1080-7522>	WIRKNER-VANCE 30N-36HZ AWB
7522.00	11652.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7592-11652>	WIRKNER-VANCE 30N-36HZ AWB
11652.00	11705.00	Blind Drilling (std)	Projection to bit	WIRKNER-VANCE 30N-36HZ AWB



# Actual Wellpath Report

WIRKNER-VANCE 30N-36HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
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Area	COLORADO	Well	WIRKNER-VANCE 30N-36HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	WIRKNER-VANCE 30N-36HZ AWB
Facility	SEC.36-T3N-R67W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	347.230	13.00	TIE-ON
113.00	0.730	347.230	113.00	BEGIN GYRO SURVEYS
938.00	0.120	311.210	937.97	TIE-INTO GYROS
1080.00	0.100	302.700	1079.97	BEGIN BHI MWD+IFR SURVEYS
7566.00	87.270	357.327	7139.61	7" CASING POINT
11652.00	90.800	1.300	7130.01	LAST BHI MWD+IFR SURVEY
11705.00	90.800	1.300	7129.27	PROJECTION TO BIT