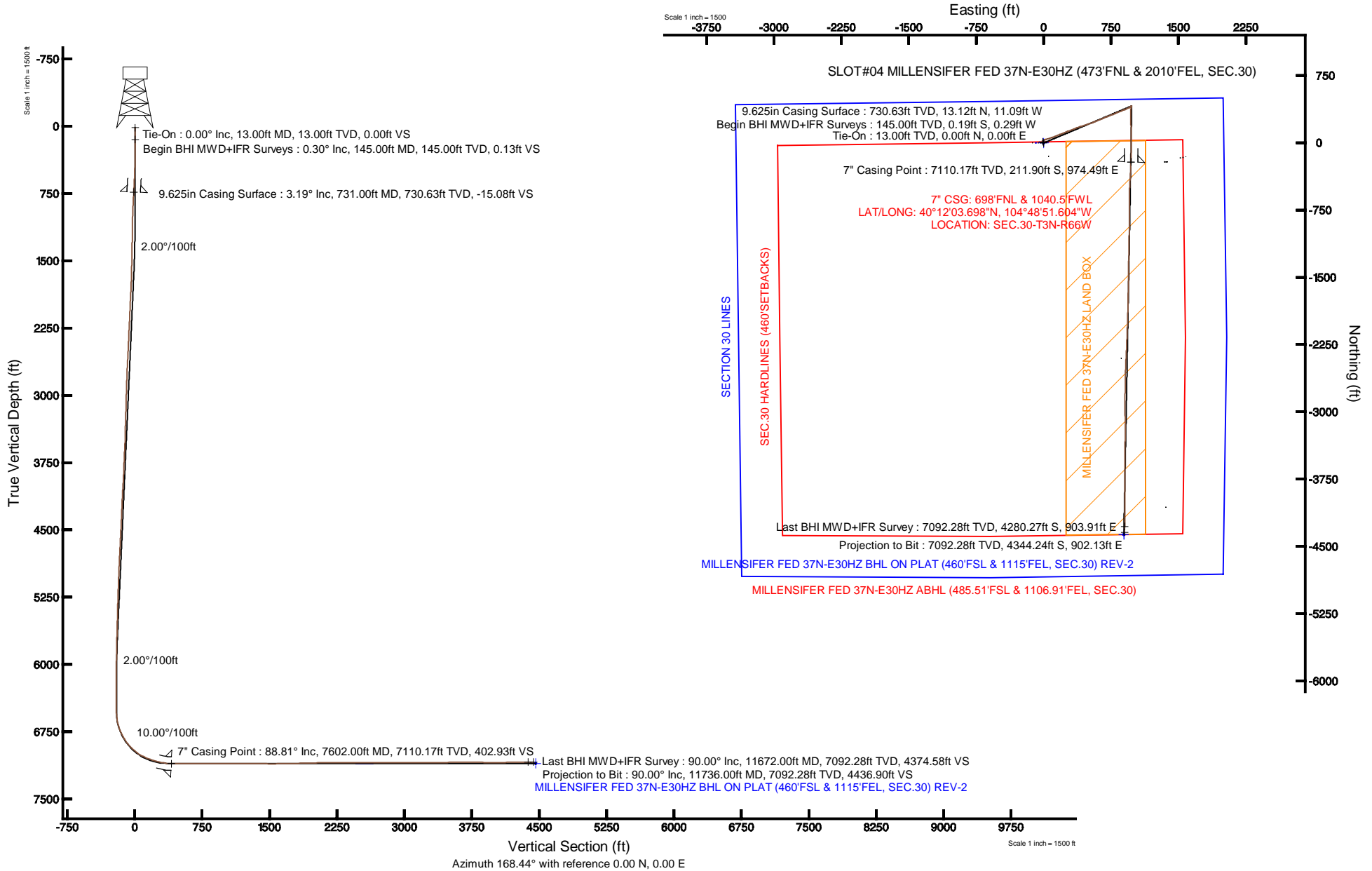


# KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)  
 Field: WELD COUNTY (KERR MCGEE) Well: MILLENSIFER FED 37N-E30HZ  
 Facility: SEC.30-T3N-R66W Wellbore: MILLENSIFER FED 37N-E30HZ PWB

Plot reference wellpath is MILLENSIFER FED 37N-E30HZ (REV-B.0) PWB

True vertical depths are referenced to ENSIGN 138 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to ENSIGN 138 (RKB)	North Reference: True north
ENSGN 138 (RKB) to Mean Sea Level: 4841 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wilsje02 on 2/22/2013





# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## 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	0.999957	Report Generated	2/22/2013 at 14:19:16
Convergence at slot	0.44° East	Database/Source file	WellArchitectDB/MILLENSIFER_FED_37N-E30HZ_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3190547.45	1317021.50	40°12'05.792"N	104°49'04.163"W
Facility Reference Pt			3190547.45	1317021.50	40°12'05.792"N	104°49'04.163"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) to Facility Vertical Datum	4841.00ft
Horizontal Reference Pt	Slot	ENSIGN 138 (RKB) to Mean Sea Level	4841.00ft
Vertical Reference Pt	ENSIGN 138 (RKB)	ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30))	4841.00ft
MD Reference Pt	ENSIGN 138 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	168.27°



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## WELLPATH DATA (128 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	236.600	0.00	0.00	0.00	0.00	40°12'05.792"N	104°49'04.163"W	0.00	
13.00	0.000	236.600	13.00	0.00	0.00	0.00	40°12'05.792"N	104°49'04.163"W	0.00	Tie-On
145.00	0.300	236.600	145.00	0.13	-0.19	-0.29	40°12'05.790"N	104°49'04.167"W	0.23	Begin BHI MWD+IFR Surveys
238.00	0.300	275.700	238.00	0.14	-0.30	-0.73	40°12'05.789"N	104°49'04.172"W	0.22	
327.00	0.800	301.700	326.99	-0.35	0.05	-1.49	40°12'05.792"N	104°49'04.182"W	0.61	
424.00	1.800	310.400	423.97	-2.02	1.39	-3.23	40°12'05.806"N	104°49'04.205"W	1.05	
519.00	2.400	319.100	518.90	-4.94	3.86	-5.67	40°12'05.830"N	104°49'04.236"W	0.71	
614.00	2.900	328.100	613.80	-8.93	7.41	-8.24	40°12'05.865"N	104°49'04.269"W	0.68	
700.00	3.300	334.900	699.68	-13.38	11.50	-10.44	40°12'05.906"N	104°49'04.298"W	0.63	
893.00	3.400	18.800	892.38	-23.71	21.95	-10.95	40°12'06.009"N	104°49'04.304"W	1.30	
965.00	2.900	38.000	964.27	-26.73	25.40	-9.14	40°12'06.043"N	104°49'04.281"W	1.61	
1026.00	4.300	61.600	1025.15	-28.38	27.71	-6.18	40°12'06.066"N	104°49'04.243"W	3.30	
1208.00	7.500	72.800	1206.17	-31.47	34.47	11.17	40°12'06.133"N	104°49'04.019"W	1.86	
1299.00	8.900	72.100	1296.24	-32.80	38.39	23.54	40°12'06.171"N	104°49'03.860"W	1.54	
1390.00	10.700	70.900	1385.91	-34.64	43.31	38.23	40°12'06.220"N	104°49'03.670"W	1.99	
1482.00	11.700	75.300	1476.15	-36.21	48.48	55.32	40°12'06.271"N	104°49'03.450"W	1.43	
1573.00	12.000	71.600	1565.22	-37.79	53.80	73.22	40°12'06.324"N	104°49'03.219"W	0.90	
1664.00	13.200	71.400	1654.02	-40.13	60.10	92.05	40°12'06.386"N	104°49'02.977"W	1.32	
1756.00	14.700	69.300	1743.31	-43.21	67.58	112.92	40°12'06.460"N	104°49'02.708"W	1.72	
1851.00	13.800	67.600	1835.38	-47.19	76.16	134.67	40°12'06.545"N	104°49'02.427"W	1.04	
1945.00	15.100	68.800	1926.41	-51.28	84.86	156.46	40°12'06.631"N	104°49'02.147"W	1.42	
2042.00	13.700	67.000	2020.36	-55.60	93.92	178.81	40°12'06.720"N	104°49'01.859"W	1.52	
2137.00	15.200	69.600	2112.35	-59.67	102.65	200.84	40°12'06.806"N	104°49'01.575"W	1.72	
2232.00	15.100	69.000	2204.05	-63.54	111.43	224.06	40°12'06.893"N	104°49'01.275"W	0.20	
2327.00	14.500	68.000	2295.90	-67.66	120.32	246.64	40°12'06.981"N	104°49'00.984"W	0.69	
2422.00	14.700	68.900	2387.83	-71.74	129.11	268.92	40°12'07.068"N	104°49'00.697"W	0.32	
2517.00	15.000	68.600	2479.66	-75.77	137.94	291.61	40°12'07.155"N	104°49'00.405"W	0.33	
2611.00	15.600	67.900	2570.33	-80.08	147.13	314.64	40°12'07.246"N	104°49'00.108"W	0.67	
2706.00	15.000	67.600	2661.96	-84.66	156.62	337.85	40°12'07.340"N	104°48'59.809"W	0.64	
2802.00	15.000	69.500	2754.69	-88.85	165.71	360.97	40°12'07.429"N	104°48'59.511"W	0.51	
2898.00	15.800	71.600	2847.24	-92.27	174.18	385.01	40°12'07.513"N	104°48'59.201"W	1.02	
2993.00	13.800	71.500	2939.08	-95.10	181.86	408.03	40°12'07.589"N	104°48'58.904"W	2.11	
3088.00	14.100	72.800	3031.28	-97.54	188.88	429.83	40°12'07.658"N	104°48'58.624"W	0.46	
3182.00	14.100	72.000	3122.45	-99.88	195.80	451.65	40°12'07.727"N	104°48'58.342"W	0.21	
3277.00	13.600	71.200	3214.69	-102.52	202.98	473.23	40°12'07.798"N	104°48'58.064"W	0.56	
3373.00	13.600	71.500	3308.00	-105.24	210.20	494.62	40°12'07.869"N	104°48'57.788"W	0.07	
3468.00	13.800	74.600	3400.30	-107.28	216.75	516.14	40°12'07.934"N	104°48'57.511"W	0.80	
3561.00	14.100	69.900	3490.56	-109.64	223.59	537.47	40°12'08.001"N	104°48'57.236"W	1.26	
3656.00	13.300	65.100	3582.85	-113.81	232.17	558.25	40°12'08.086"N	104°48'56.968"W	1.46	
3750.00	13.000	68.400	3674.39	-118.09	240.61	577.89	40°12'08.170"N	104°48'56.715"W	0.86	
3845.00	13.500	70.300	3766.86	-121.46	248.28	598.26	40°12'08.245"N	104°48'56.453"W	0.70	
3941.00	14.000	69.800	3860.11	-124.72	256.07	619.71	40°12'08.322"N	104°48'56.176"W	0.54	
4037.00	15.900	65.500	3952.86	-129.34	265.53	642.58	40°12'08.416"N	104°48'55.882"W	2.29	
4132.00	16.100	66.000	4044.18	-135.01	276.29	666.45	40°12'08.522"N	104°48'55.574"W	0.26	
4227.00	14.300	66.900	4135.85	-140.13	286.25	689.28	40°12'08.621"N	104°48'55.280"W	1.91	



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## WELLPATH DATA (128 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4321.00	13.800	69.700	4227.04	-144.08	294.69	710.47	40°12'08.704"N	104°48'55.007"W	0.90	
4415.00	15.000	69.000	4318.09	-147.71	302.94	732.34	40°12'08.786"N	104°48'54.725"W	1.29	
4511.00	14.300	69.400	4410.97	-151.54	311.57	755.04	40°12'08.871"N	104°48'54.432"W	0.74	
4605.00	14.500	67.600	4502.01	-155.51	320.14	776.79	40°12'08.955"N	104°48'54.152"W	0.52	
4699.00	15.200	66.000	4592.87	-160.31	329.63	798.92	40°12'09.049"N	104°48'53.867"W	0.86	
4793.00	15.100	68.000	4683.61	-165.11	339.23	821.53	40°12'09.144"N	104°48'53.575"W	0.57	
4888.00	14.900	68.800	4775.37	-169.32	348.28	844.39	40°12'09.234"N	104°48'53.281"W	0.30	
4983.00	14.200	67.400	4867.32	-173.53	357.18	866.54	40°12'09.321"N	104°48'52.995"W	0.82	
5077.00	13.000	68.000	4958.68	-177.59	365.57	886.99	40°12'09.404"N	104°48'52.732"W	1.29	
5173.00	11.000	68.400	5052.58	-181.09	372.99	905.52	40°12'09.478"N	104°48'52.493"W	2.09	
5268.00	8.900	66.400	5146.15	-184.15	379.27	920.68	40°12'09.540"N	104°48'52.297"W	2.24	
5363.00	8.800	66.200	5240.02	-187.18	385.14	934.06	40°12'09.598"N	104°48'52.125"W	0.11	
5457.00	7.600	65.400	5333.05	-190.07	390.63	946.29	40°12'09.652"N	104°48'51.967"W	1.28	
5551.00	5.900	66.000	5426.40	-192.48	395.18	956.36	40°12'09.697"N	104°48'51.838"W	1.81	
5647.00	5.700	62.600	5521.91	-194.82	399.39	965.10	40°12'09.739"N	104°48'51.725"W	0.41	
5742.00	4.700	58.900	5616.52	-197.38	403.57	972.62	40°12'09.780"N	104°48'51.628"W	1.11	
5837.00	3.500	44.600	5711.27	-200.28	407.64	977.99	40°12'09.820"N	104°48'51.559"W	1.65	
5932.00	2.100	46.200	5806.16	-202.81	410.91	981.28	40°12'09.852"N	104°48'51.516"W	1.48	
6026.00	0.500	0.100	5900.13	-204.13	412.51	982.53	40°12'09.868"N	104°48'51.500"W	1.90	
6216.00	0.500	335.700	6090.13	-205.75	414.10	982.19	40°12'09.884"N	104°48'51.505"W	0.11	
6403.00	0.300	256.300	6277.12	-206.53	414.73	981.37	40°12'09.890"N	104°48'51.515"W	0.29	
6579.00	0.800	252.100	6453.11	-206.38	414.24	979.76	40°12'09.885"N	104°48'51.536"W	0.28	
6636.00	1.100	237.600	6510.11	-206.14	413.82	978.92	40°12'09.881"N	104°48'51.547"W	0.67	
6684.00	5.100	191.700	6558.03	-204.02	411.49	978.09	40°12'09.858"N	104°48'51.557"W	9.18	
6731.00	9.100	189.500	6604.66	-198.64	405.77	977.06	40°12'09.802"N	104°48'51.571"W	8.53	
6779.00	13.100	187.700	6651.75	-189.97	396.64	975.70	40°12'09.711"N	104°48'51.588"W	8.36	
6826.00	17.400	185.700	6697.09	-178.23	384.36	974.29	40°12'09.590"N	104°48'51.607"W	9.22	
6873.00	22.200	184.900	6741.30	-163.01	368.51	972.83	40°12'09.433"N	104°48'51.625"W	10.23	
6920.00	26.500	182.800	6784.11	-144.35	349.18	971.56	40°12'09.242"N	104°48'51.642"W	9.33	
6968.00	31.400	180.000	6826.10	-121.72	325.96	971.04	40°12'09.013"N	104°48'51.648"W	10.59	
7015.00	36.000	178.200	6865.19	-96.11	299.90	971.47	40°12'08.755"N	104°48'51.643"W	10.01	
7064.00	41.600	178.400	6903.36	-65.89	269.22	972.38	40°12'08.452"N	104°48'51.631"W	11.43	
7111.00	45.600	179.400	6937.39	-34.05	236.82	972.99	40°12'08.132"N	104°48'51.623"W	8.64	
7159.00	50.600	179.000	6969.44	1.02	201.11	973.49	40°12'07.779"N	104°48'51.617"W	10.44	
7206.00	56.000	178.700	6997.52	38.05	163.45	974.25	40°12'07.407"N	104°48'51.607"W	11.50	
7255.00	62.400	177.900	7022.59	79.48	121.40	975.51	40°12'06.991"N	104°48'51.591"W	13.14	
7302.00	67.000	178.300	7042.67	121.33	78.94	976.92	40°12'06.572"N	104°48'51.573"W	9.82	
7349.00	71.400	179.900	7059.36	164.47	35.03	977.60	40°12'06.138"N	104°48'51.564"W	9.89	
7396.00	73.700	180.600	7073.45	208.33	-9.81	977.40	40°12'05.695"N	104°48'51.567"W	5.10	
7444.00	76.000	179.700	7086.00	253.67	-56.14	977.28	40°12'05.237"N	104°48'51.568"W	5.12	
7491.00	78.500	180.100	7096.37	298.56	-101.97	977.36	40°12'04.784"N	104°48'51.567"W	5.38	
7538.00	81.200	181.500	7104.65	343.72	-148.23	976.71	40°12'04.327"N	104°48'51.576"W	6.45	
7560.00	83.900	181.600	7107.50	364.95	-170.03	976.12	40°12'04.112"N	104°48'51.583"W	12.28	
7602.00†	88.815	182.852	7110.17	405.61	-211.90	974.49	40°12'03.698"N	104°48'51.604"W	12.07	7" Casing Point
7607.00	89.400	183.000	7110.25	410.45	-216.89	974.24	40°12'03.648"N	104°48'51.608"W	12.07	



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## WELLPATH DATA (128 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7702.00	90.200	182.900	7110.58	502.35	-311.77	969.35	40°12'02.711"N	104°48'51.671"W	0.85	
7797.00	90.800	183.800	7109.75	594.07	-406.60	963.80	40°12'01.774"N	104°48'51.742"W	1.14	
7892.00	91.600	182.400	7107.76	685.88	-501.44	958.66	40°12'00.837"N	104°48'51.808"W	1.70	
7986.00	89.500	178.700	7106.86	777.70	-595.41	957.76	40°11'59.908"N	104°48'51.820"W	4.53	
8081.00	90.300	180.300	7107.03	870.88	-690.40	958.59	40°11'58.969"N	104°48'51.809"W	1.88	
8175.00	89.900	180.400	7106.86	962.80	-784.40	958.01	40°11'58.040"N	104°48'51.817"W	0.44	
8270.00	88.900	181.100	7107.86	1055.55	-879.38	956.77	40°11'57.102"N	104°48'51.833"W	1.28	
8363.00	88.700	181.200	7109.80	1146.19	-972.34	954.91	40°11'56.183"N	104°48'51.857"W	0.24	
8458.00	90.200	180.800	7110.72	1238.84	-1067.32	953.25	40°11'55.245"N	104°48'51.878"W	1.63	
8648.00	89.800	181.200	7110.72	1424.17	-1257.29	949.93	40°11'53.367"N	104°48'51.921"W	0.30	
8742.00	89.800	181.200	7111.04	1515.79	-1351.27	947.96	40°11'52.439"N	104°48'51.947"W	0.00	
8837.00	91.100	181.300	7110.30	1608.35	-1446.24	945.89	40°11'51.500"N	104°48'51.973"W	1.37	
8933.00	91.000	179.500	7108.54	1702.19	-1542.22	945.22	40°11'50.552"N	104°48'51.982"W	1.88	
9028.00	91.200	181.300	7106.71	1795.05	-1637.20	944.56	40°11'49.613"N	104°48'51.991"W	1.91	
9122.00	91.500	181.600	7104.50	1886.55	-1731.14	942.18	40°11'48.685"N	104°48'52.021"W	0.45	
9217.00	91.500	181.000	7102.01	1979.07	-1826.08	940.03	40°11'47.747"N	104°48'52.049"W	0.63	
9311.00	91.200	181.500	7099.80	2070.64	-1920.03	937.98	40°11'46.818"N	104°48'52.076"W	0.62	
9405.00	90.900	182.000	7098.08	2162.03	-2013.97	935.10	40°11'45.890"N	104°48'52.113"W	0.62	
9500.00	90.000	182.300	7097.33	2254.25	-2108.90	931.54	40°11'44.952"N	104°48'52.159"W	1.00	
9595.00	88.800	181.800	7098.32	2346.51	-2203.83	928.14	40°11'44.014"N	104°48'52.203"W	1.37	
9691.00	89.700	183.300	7099.58	2439.53	-2299.73	923.87	40°11'43.066"N	104°48'52.258"W	1.82	
9786.00	90.600	182.400	7099.33	2531.47	-2394.61	919.15	40°11'42.128"N	104°48'52.319"W	1.34	
9881.00	89.600	182.100	7099.17	2623.66	-2489.53	915.42	40°11'41.190"N	104°48'52.367"W	1.10	
9975.00	90.000	181.500	7099.49	2715.05	-2583.49	912.47	40°11'40.262"N	104°48'52.405"W	0.77	
10070.00	90.700	180.600	7098.91	2807.69	-2678.47	910.73	40°11'39.323"N	104°48'52.427"W	1.20	
10165.00	90.100	181.600	7098.25	2900.31	-2773.44	908.90	40°11'38.385"N	104°48'52.451"W	1.23	
10259.00	89.900	179.900	7098.25	2992.09	-2867.43	907.67	40°11'37.456"N	104°48'52.467"W	1.82	
10354.00	90.000	179.600	7098.33	3085.19	-2962.43	908.09	40°11'36.517"N	104°48'52.461"W	0.33	
10547.00	90.200	179.800	7098.00	3274.36	-3155.43	909.10	40°11'34.610"N	104°48'52.448"W	0.15	
10738.00	90.900	180.500	7096.16	3461.25	-3346.42	908.60	40°11'32.723"N	104°48'52.455"W	0.52	
10926.00	91.000	180.400	7093.05	3645.00	-3534.39	907.12	40°11'30.865"N	104°48'52.474"W	0.08	
11021.00	89.000	179.900	7093.05	3737.96	-3629.38	906.87	40°11'29.926"N	104°48'52.477"W	2.17	
11210.00	88.700	180.200	7096.84	3922.94	-3818.34	906.71	40°11'28.059"N	104°48'52.480"W	0.22	
11305.00	90.600	179.800	7097.42	4015.95	-3913.33	906.71	40°11'27.120"N	104°48'52.480"W	2.04	
11400.00	90.800	180.000	7096.26	4108.99	-4008.33	906.87	40°11'26.182"N	104°48'52.477"W	0.30	
11494.00	91.400	180.200	7094.46	4200.97	-4102.31	906.71	40°11'25.253"N	104°48'52.480"W	0.67	
11672.00	90.000	181.600	7092.28	4374.64	-4280.27	903.91	40°11'23.494"N	104°48'52.516"W	1.11	Last BHI MWD+IFR Survey
11736.00	90.000	181.600	7092.28	4436.92	-4344.24	902.13	40°11'22.862"N	104°48'52.539"W	0.00	Projection to Bit



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## HOLE & CASING SECTIONS - Ref Wellbore: MILLENSIFER FED 37N-E30HZ AWB Ref Wellpath: MILLENSIFER FED 37N-E30HZ 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	731.00	718.00	13.00	730.63	0.00	0.00	13.12	-11.09
9.625in Casing Surface	13.00	731.00	718.00	13.00	730.63	0.00	0.00	13.12	-11.09
8.75in Open Hole	731.00	7612.00	6881.00	730.63	7110.30	13.12	-11.09	-221.89	973.98
7in Casing Intermediate	13.00	7602.00	7589.00	13.00	7110.17	0.00	0.00	-211.90	974.49
6.125in Open Hole	7602.00	11736.00	4134.00	7110.17	7092.28	-211.90	974.49	-4344.24	902.13

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
MILLENSIFER FED 4 PAD SECTION LINES		-2.00	0.40	-89.93	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon
MILLENSIFER FED 37N-E30HZ BHL ON PLAT (460'FSL & 1115'FEL, SEC.30) REV-1		7091.00	-4369.75	894.04	3191475.04	1312658.95	40°11'22.610"N	104°48'52.643"W	point
MEEKS L 30-22 (NOBLE) 100' CIRCLE		7106.00	-2436.24	828.24	3191394.37	1314591.81	40°11'41.717"N	104°48'53.490"W	circle
MILLENSIFER FED 37N-E30HZ BHL ON PLAT (460'FSL & 1115'FEL, SEC.30) REV-2		7106.00	-4369.75	894.04	3191475.04	1312658.95	40°11'22.610"N	104°48'52.643"W	point
MILLER 30-9K (NOBLE) 100' CIRCLE		7106.00	-2948.87	1321.27	3191891.31	1314083.01	40°11'36.651"N	104°48'47.137"W	circle
MEEKS L 30-18D (NOBLE) 100' CIRCLE		7115.00	-837.88	-683.39	3189870.56	1316178.42	40°11'57.512"N	104°49'12.970"W	circle
MEEKS L 30-21D (NOBLE) 100' CIRCLE		7115.00	-2037.03	-662.94	3189900.23	1314979.52	40°11'45.662"N	104°49'12.706"W	circle
FREEWAY L 30-10 JI (NOBLE) 100' CIRCLE		7116.00	-2661.21	-273.94	3190294.01	1314358.38	40°11'39.494"N	104°49'07.693"W	circle
MILLENSIFER 30-10K (NOBLE) 100' CIRCLE		7121.00	-3174.56	491.46	3191063.30	1313850.95	40°11'34.421"N	104°48'57.830"W	circle
MILLENSIFER 30-15K (NOBLE) 100' CIRCLE		7218.00	-4076.81	183.07	3190761.87	1312946.40	40°11'25.505"N	104°49'01.804"W	circle
MILLENSIFER FED 4 PAD HARDLINES (460'SETBACKS)		7298.00	0.40	-89.93	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon
MILLENSIFER FED 37N-E30HZ LAND BOX		7298.00	0.00	0.00	3190547.45	1317021.50	40°12'05.792"N	104°49'04.163"W	polygon



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

WELLPATH COMPOSITION - Ref Wellbore: MILLENSIFER FED 37N-E30HZ AWB Ref Wellpath: MILLENSIFER FED 37N-E30HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	700.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 13 1/2" HOLE <145-700>	MILLENSIFER FED 37N-E30HZ AWB
700.00	7560.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <893-7560>	MILLENSIFER FED 37N-E30HZ AWB
7560.00	11672.00	OnTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7607-11672>	MILLENSIFER FED 37N-E30HZ AWB
11672.00	11736.00	Blind Drilling (std)	Projection to bit	MILLENSIFER FED 37N-E30HZ AWB



# Actual Wellpath Report

MILLENSIFER FED 37N-E30HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 MILLENSIFER FED 37N-E30HZ (473'FNL & 2010'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-E30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-E30HZ AWB
Facility	SEC.30-T3N-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	236.600	13.00	Tie-On
145.00	0.300	236.600	145.00	Begin BHI MWD+IFR Surveys
7602.00	88.815	182.852	7110.17	7" Casing Point
11672.00	90.000	181.600	7092.28	Last BHI MWD+IFR Survey
11736.00	90.000	181.600	7092.28	Projection to Bit