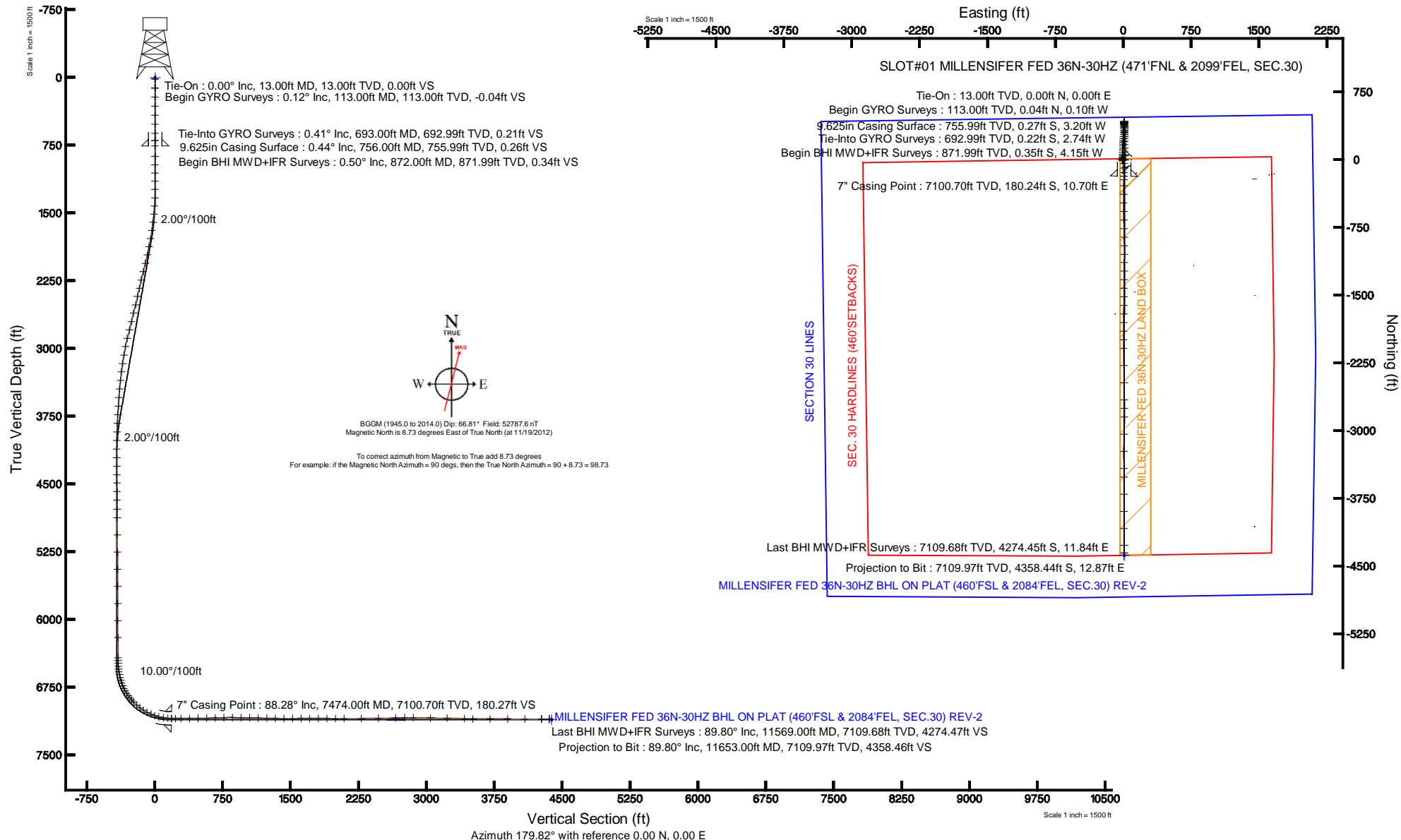


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
 Field: WELD COUNTY (KERR MCGEE) Well: MILLENSIFER FED 36N-30HZ
 Facility: SEC.30-T3N-R66W Wellbore: MILLENSIFER FED 36N-30HZ PWB

Plot reference wellpath is MILLENSIFER FED 36N-30HZ (REV-B.0) PWP

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: 4840 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wlsjef02 on 1/24/2013





Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
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	1/24/2013 at 15:06:55
Convergence at slot	0.44° East	Database/Source file	WellArchitectDB/MILLENSIFER_FED_36N-30HZ_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.40	-89.93	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"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	4840.00ft
Horizontal Reference Pt	Slot	ENSIGN 138 (RKB) to Mean Sea Level	4840.00ft
Vertical Reference Pt	ENSIGN 138 (RKB)	ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30))	4840.00ft
MD Reference Pt	ENSIGN 138 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.83°



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (123 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	291.910	0.00	0.00	0.00	0.00	40°12'05.796"N	104°49'05.322"W	0.00	
13.00	0.000	291.910	13.00	0.00	0.00	0.00	40°12'05.796"N	104°49'05.322"W	0.00	Tie-On
113.00	0.120	291.910	113.00	-0.04	0.04	-0.10	40°12'05.796"N	104°49'05.323"W	0.12	Begin GYRO Surveys
213.00	0.250	266.990	213.00	-0.07	0.07	-0.41	40°12'05.797"N	104°49'05.327"W	0.15	
313.00	0.230	280.150	313.00	-0.09	0.09	-0.83	40°12'05.797"N	104°49'05.333"W	0.06	
413.00	0.270	228.360	413.00	0.03	-0.03	-1.20	40°12'05.796"N	104°49'05.337"W	0.22	
513.00	0.330	267.640	513.00	0.19	-0.20	-1.67	40°12'05.794"N	104°49'05.343"W	0.21	
613.00	0.320	273.360	613.00	0.19	-0.19	-2.23	40°12'05.794"N	104°49'05.351"W	0.03	
693.00	0.410	263.030	693.00	0.21	-0.22	-2.74	40°12'05.794"N	104°49'05.357"W	0.14	Tie-Into GYRO Surveys
872.00	0.500	265.900	872.00	0.34	-0.35	-4.15	40°12'05.793"N	104°49'05.376"W	0.05	Begin BHI MWD+IFR Surveys
963.00	0.500	271.600	963.00	0.35	-0.37	-4.95	40°12'05.792"N	104°49'05.386"W	0.05	
1055.00	0.500	272.700	1055.00	0.32	-0.34	-5.75	40°12'05.793"N	104°49'05.396"W	0.01	
1146.00	0.500	264.100	1146.00	0.34	-0.36	-6.54	40°12'05.792"N	104°49'05.406"W	0.08	
1238.00	0.700	284.400	1238.00	0.24	-0.26	-7.48	40°12'05.793"N	104°49'05.418"W	0.31	
1329.00	2.000	340.900	1329.00	-1.40	1.38	-8.54	40°12'05.810"N	104°49'05.432"W	1.89	
1421.00	3.900	5.600	1421.00	-6.04	6.01	-8.76	40°12'05.855"N	104°49'05.435"W	2.44	
1512.00	5.400	9.100	1512.00	-13.34	13.32	-7.78	40°12'05.928"N	104°49'05.422"W	1.68	
1603.00	7.000	5.700	1603.00	-23.08	23.06	-6.55	40°12'06.024"N	104°49'05.406"W	1.80	
1695.00	8.400	4.700	1695.00	-35.36	35.34	-5.45	40°12'06.145"N	104°49'05.392"W	1.53	
1786.00	10.000	4.800	1786.00	-49.85	49.84	-4.24	40°12'06.289"N	104°49'05.377"W	1.76	
1877.00	11.400	1.100	1877.00	-66.72	66.71	-3.41	40°12'06.455"N	104°49'05.366"W	1.71	
1971.00	12.600	0.700	1971.00	-86.25	86.25	-3.10	40°12'06.648"N	104°49'05.362"W	1.28	
2065.00	13.800	0.800	2065.00	-107.72	107.71	-2.82	40°12'06.860"N	104°49'05.358"W	1.28	
2161.00	13.700	3.200	2161.00	-130.51	130.51	-2.03	40°12'07.086"N	104°49'05.348"W	0.60	
2255.00	13.500	0.800	2255.00	-152.60	152.59	-1.25	40°12'07.304"N	104°49'05.338"W	0.64	
2350.00	12.300	5.000	2350.00	-173.76	173.76	-0.22	40°12'07.513"N	104°49'05.325"W	1.60	
2444.00	13.000	1.600	2444.00	-194.30	194.31	0.95	40°12'07.716"N	104°49'05.310"W	1.09	
2539.00	12.800	4.500	2539.00	-215.47	215.48	2.08	40°12'07.925"N	104°49'05.295"W	0.71	
2634.00	14.100	4.200	2634.00	-237.50	237.51	3.75	40°12'08.143"N	104°49'05.274"W	1.37	
2729.00	14.400	4.600	2729.00	-260.81	260.83	5.54	40°12'08.373"N	104°49'05.251"W	0.33	
2825.00	14.000	3.800	2825.00	-284.29	284.31	7.27	40°12'08.606"N	104°49'05.228"W	0.46	
2921.00	13.500	3.300	2921.00	-307.06	307.09	8.69	40°12'08.831"N	104°49'05.210"W	0.54	
3016.00	10.600	359.700	3016.00	-326.87	326.90	9.28	40°12'09.026"N	104°49'05.202"W	3.15	
3110.00	9.900	357.200	3110.00	-343.59	343.61	8.84	40°12'09.192"N	104°49'05.208"W	0.88	
3205.00	8.600	3.500	3205.00	-358.83	358.86	8.87	40°12'09.342"N	104°49'05.208"W	1.73	
3300.00	7.400	2.400	3300.00	-372.04	372.07	9.56	40°12'09.473"N	104°49'05.199"W	1.27	
3395.00	6.300	359.700	3395.00	-383.36	383.39	9.79	40°12'09.585"N	104°49'05.196"W	1.21	
3490.00	4.900	359.800	3490.00	-392.63	392.66	9.75	40°12'09.676"N	104°49'05.196"W	1.47	
3585.00	4.300	357.500	3585.00	-400.25	400.28	9.58	40°12'09.752"N	104°49'05.199"W	0.66	
3680.00	3.200	8.200	3680.00	-406.43	406.46	9.80	40°12'09.813"N	104°49'05.196"W	1.37	
3775.00	3.300	7.200	3775.00	-411.76	411.80	10.52	40°12'09.865"N	104°49'05.186"W	0.12	
3871.00	2.800	10.000	3871.00	-416.81	416.85	11.28	40°12'09.915"N	104°49'05.177"W	0.54	
3965.00	2.600	6.200	3965.00	-421.19	421.23	11.91	40°12'09.959"N	104°49'05.169"W	0.29	
4060.00	0.600	2.500	4060.00	-423.83	423.87	12.16	40°12'09.985"N	104°49'05.165"W	2.11	
4155.00	0.200	108.500	4155.00	-424.27	424.31	12.34	40°12'09.989"N	104°49'05.163"W	0.72	



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (123 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4249.00	0.300	185.000	4208.34	-423.97	424.01	12.47	40°12'09.986"N	104°49'05.161"W	0.34	
4345.00	0.400	176.600	4304.33	-423.39	423.43	12.47	40°12'09.980"N	104°49'05.161"W	0.12	
4439.00	0.500	181.100	4398.33	-422.65	422.69	12.48	40°12'09.973"N	104°49'05.161"W	0.11	
4534.00	0.500	163.400	4493.33	-421.84	421.88	12.59	40°12'09.965"N	104°49'05.160"W	0.16	
4628.00	0.800	161.300	4587.32	-420.82	420.86	12.92	40°12'09.955"N	104°49'05.155"W	0.32	
4724.00	0.700	190.100	4683.31	-419.61	419.65	13.03	40°12'09.943"N	104°49'05.154"W	0.40	
4820.00	0.100	54.400	4779.31	-419.08	419.12	13.00	40°12'09.938"N	104°49'05.154"W	0.81	
4915.00	0.100	232.700	4874.31	-419.08	419.12	13.00	40°12'09.938"N	104°49'05.154"W	0.21	
5107.00	0.500	190.500	5066.31	-418.16	418.20	12.71	40°12'09.929"N	104°49'05.158"W	0.22	
5298.00	0.600	184.800	5257.30	-416.34	416.38	12.48	40°12'09.911"N	104°49'05.161"W	0.06	
5488.00	0.500	182.700	5447.29	-414.52	414.56	12.36	40°12'09.893"N	104°49'05.163"W	0.05	
5678.00	0.400	176.500	5637.29	-413.03	413.07	12.36	40°12'09.878"N	104°49'05.163"W	0.06	
5867.00	0.200	252.700	5826.28	-412.28	412.31	12.08	40°12'09.870"N	104°49'05.166"W	0.21	
6057.00	0.100	266.400	6016.28	-412.17	412.21	11.60	40°12'09.869"N	104°49'05.172"W	0.06	
6246.00	0.500	173.100	6205.28	-411.34	411.38	11.54	40°12'09.861"N	104°49'05.173"W	0.27	
6468.00	1.000	120.700	6427.26	-409.38	409.43	13.32	40°12'09.842"N	104°49'05.150"W	0.36	
6500.00	0.900	110.700	6459.26	-409.15	409.19	13.79	40°12'09.840"N	104°49'05.144"W	0.60	
6532.00	1.900	155.300	6491.25	-408.58	408.62	14.25	40°12'09.834"N	104°49'05.138"W	4.40	
6564.00	4.900	170.900	6523.19	-406.75	406.79	14.69	40°12'09.816"N	104°49'05.133"W	9.73	
6595.00	6.600	175.600	6554.03	-403.66	403.71	15.03	40°12'09.785"N	104°49'05.128"W	5.69	
6627.00	8.700	172.800	6585.75	-399.43	399.47	15.48	40°12'09.744"N	104°49'05.123"W	6.66	
6658.00	11.900	173.600	6616.24	-393.92	393.97	16.13	40°12'09.689"N	104°49'05.114"W	10.33	
6690.00	13.400	173.800	6647.47	-386.95	387.00	16.90	40°12'09.620"N	104°49'05.104"W	4.69	
6722.00	15.200	176.200	6678.47	-379.08	379.13	17.58	40°12'09.543"N	104°49'05.095"W	5.92	
6753.00	18.500	179.600	6708.14	-370.10	370.15	17.88	40°12'09.454"N	104°49'05.092"W	11.11	
6785.00	21.800	180.500	6738.18	-359.08	359.13	17.86	40°12'09.345"N	104°49'05.092"W	10.36	
6817.00	25.100	180.900	6767.53	-346.35	346.40	17.70	40°12'09.219"N	104°49'05.094"W	10.32	
6848.00	28.300	180.600	6795.22	-332.42	332.48	17.52	40°12'09.082"N	104°49'05.096"W	10.33	
6880.00	31.700	178.900	6822.93	-316.43	316.48	17.61	40°12'08.923"N	104°49'05.095"W	10.95	
6911.00	35.400	178.200	6848.76	-299.30	299.36	18.04	40°12'08.754"N	104°49'05.089"W	12.00	
6943.00	39.300	178.500	6874.19	-279.90	279.95	18.60	40°12'08.563"N	104°49'05.082"W	12.20	
6974.00	43.000	178.700	6897.53	-259.51	259.56	19.10	40°12'08.361"N	104°49'05.076"W	11.94	
7005.00	44.100	179.000	6920.00	-238.15	238.21	19.53	40°12'08.150"N	104°49'05.070"W	3.61	
7052.00	48.000	180.100	6952.61	-204.32	204.38	19.78	40°12'07.816"N	104°49'05.067"W	8.47	
7099.00	51.800	181.100	6982.88	-168.38	168.44	19.40	40°12'07.461"N	104°49'05.072"W	8.25	
7147.00	57.400	180.900	7010.68	-129.28	129.34	18.72	40°12'07.074"N	104°49'05.081"W	11.67	
7194.00	63.900	181.200	7033.70	-88.34	88.40	17.96	40°12'06.670"N	104°49'05.091"W	13.84	
7241.00	65.300	182.800	7053.86	-45.92	45.97	16.48	40°12'06.250"N	104°49'05.110"W	4.28	
7288.00	70.000	182.600	7071.73	-2.52	2.56	14.43	40°12'05.821"N	104°49'05.136"W	10.01	
7335.00	76.300	181.500	7085.35	42.41	-42.37	12.83	40°12'05.377"N	104°49'05.157"W	13.59	
7382.00	82.400	180.800	7094.03	88.56	-88.53	11.91	40°12'04.921"N	104°49'05.169"W	13.06	
7432.00	86.600	180.600	7098.82	138.32	-138.28	11.30	40°12'04.429"N	104°49'05.176"W	8.41	
7474.00†	88.280	181.045	7100.70	180.27	-180.24	10.70	40°12'04.015"N	104°49'05.184"W	4.14	7" Casing Point
7517.00	90.000	181.500	7101.34	223.25	-223.22	9.74	40°12'03.590"N	104°49'05.196"W	4.14	
7580.00	90.000	180.800	7101.34	286.23	-286.21	8.48	40°12'02.968"N	104°49'05.213"W	1.11	



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (123 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7675.00	90.400	180.800	7101.01	381.21	-381.20	7.15	40°12'02.029"N	104°49'05.230"W	0.42	
7770.00	91.000	180.300	7099.85	476.20	-476.18	6.24	40°12'01.090"N	104°49'05.242"W	0.82	
7865.00	91.200	178.800	7098.02	571.18	-571.16	6.98	40°12'00.152"N	104°49'05.232"W	1.59	
7960.00	91.900	179.000	7095.45	666.13	-666.11	8.81	40°11'59.214"N	104°49'05.208"W	0.77	
8055.00	91.100	178.200	7092.97	761.07	-761.04	11.13	40°11'58.275"N	104°49'05.179"W	1.19	
8150.00	89.500	179.100	7092.47	856.05	-856.01	13.37	40°11'57.337"N	104°49'05.150"W	1.93	
8245.00	89.800	179.300	7093.05	951.04	-951.00	14.69	40°11'56.398"N	104°49'05.133"W	0.38	
8340.00	88.400	180.400	7094.54	1046.03	-1045.99	14.94	40°11'55.460"N	104°49'05.129"W	1.87	
8434.00	88.500	180.800	7097.09	1139.98	-1139.95	13.96	40°11'54.531"N	104°49'05.142"W	0.44	
8529.00	88.500	180.800	7099.57	1234.94	-1234.90	12.63	40°11'53.593"N	104°49'05.159"W	0.00	
8624.00	88.500	180.900	7102.06	1329.89	-1329.86	11.22	40°11'52.654"N	104°49'05.177"W	0.11	
8719.00	90.100	179.500	7103.22	1424.87	-1424.85	10.89	40°11'51.716"N	104°49'05.182"W	2.24	
8813.00	90.400	180.400	7102.81	1518.87	-1518.85	10.97	40°11'50.787"N	104°49'05.181"W	1.01	
8908.00	90.100	181.100	7102.40	1613.86	-1613.84	9.73	40°11'49.848"N	104°49'05.197"W	0.80	
9003.00	90.300	180.500	7102.06	1708.84	-1708.83	8.40	40°11'48.909"N	104°49'05.214"W	0.67	
9098.00	89.900	180.900	7101.90	1803.83	-1803.82	7.24	40°11'47.971"N	104°49'05.229"W	0.60	
9193.00	89.400	180.200	7102.48	1898.82	-1898.81	6.33	40°11'47.032"N	104°49'05.240"W	0.91	
9288.00	90.200	180.100	7102.81	1993.82	-1993.81	6.08	40°11'46.093"N	104°49'05.244"W	0.85	
9383.00	89.600	179.500	7102.98	2088.82	-2088.81	6.41	40°11'45.154"N	104°49'05.239"W	0.89	
9573.00	90.600	178.700	7102.64	2278.80	-2278.78	9.40	40°11'43.277"N	104°49'05.201"W	0.67	
9763.00	91.100	179.900	7099.83	2468.77	-2468.74	11.72	40°11'41.400"N	104°49'05.171"W	0.68	
9954.00	91.100	178.400	7096.16	2659.71	-2659.68	14.55	40°11'39.513"N	104°49'05.134"W	0.79	
10051.00	90.800	180.000	7094.55	2756.69	-2756.65	15.91	40°11'38.555"N	104°49'05.117"W	1.68	
10146.00	89.400	180.600	7094.38	2851.68	-2851.65	15.41	40°11'37.616"N	104°49'05.123"W	1.60	
10336.00	89.200	181.600	7096.71	3041.62	-3041.60	11.76	40°11'35.739"N	104°49'05.170"W	0.54	
10525.00	89.000	180.000	7099.67	3230.56	-3230.55	9.12	40°11'33.872"N	104°49'05.204"W	0.85	
10714.00	88.300	179.500	7104.13	3419.51	-3419.49	9.95	40°11'32.005"N	104°49'05.194"W	0.46	
10809.00	89.800	180.000	7105.70	3514.49	-3514.48	10.36	40°11'31.066"N	104°49'05.188"W	1.66	
11000.00	90.100	180.200	7105.87	3705.49	-3705.48	10.03	40°11'29.179"N	104°49'05.193"W	0.19	
11191.00	89.100	179.900	7107.20	3896.48	-3896.47	9.86	40°11'27.291"N	104°49'05.195"W	0.55	
11380.00	89.800	179.800	7109.02	4085.47	-4085.46	10.36	40°11'25.424"N	104°49'05.189"W	0.37	
11569.00	89.800	179.300	7109.68	4274.47	-4274.45	11.84	40°11'23.556"N	104°49'05.169"W	0.26	Last BHI MWD+IFR Surveys
11653.00	89.800	179.300	7109.97	4358.46	-4358.44	12.87	40°11'22.726"N	104°49'05.156"W	0.00	Projection to Bit



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: MILLENSIFER FED 36N-30HZ AWP Ref Wellpath: MILLENSIFER FED 36N-30HZ 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	756.00	743.00	13.00	755.99	0.00	0.00	-0.27	-3.20
9.625in Casing Surface	13.00	756.00	743.00	13.00	755.99	0.00	0.00	-0.27	-3.20
8.75in Open Hole	756.00	7484.00	6728.00	755.99	7100.96	-0.27	-3.20	-190.23	10.50
7in Casing Intermediate	13.00	7474.00	7461.00	13.00	7100.70	0.00	0.00	-180.24	10.70
6.125in Open Hole	7474.00	11653.00	4179.00	7100.70	7109.97	-180.24	10.70	-4358.44	12.87

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		-3.00	0.00	0.00	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon
MILLENSIFER FED 36N-30HZ BHL ON PLAT (460'FSL & 2084'FEL, SEC.30) REV-1		7085.00	-4384.34	13.66	3190504.89	1312637.30	40°11'22.470"N	104°49'05.146"W	point
MEEKS L 30-22 (NOBLE) 100' CIRCLE		7105.00	-2436.64	918.18	3191394.37	1314591.81	40°11'41.717"N	104°48'53.490"W	circle
MILLER 30-9K (NOBLE) 100' CIRCLE		7105.00	-2949.27	1411.21	3191891.31	1314083.01	40°11'36.651"N	104°48'47.137"W	circle
MEEKS L 30-18D (NOBLE) 100' CIRCLE		7114.00	-838.29	-593.46	3189870.56	1316178.42	40°11'57.512"N	104°49'12.970"W	circle
MEEKS L 30-21D (NOBLE) 100' CIRCLE		7114.00	-2037.44	-573.00	3189900.23	1314979.52	40°11'45.662"N	104°49'12.706"W	circle
FREEWAY L 30-10 JI (NOBLE) 100' CIRCLE		7115.00	-2661.61	-183.99	3190294.01	1314358.38	40°11'39.494"N	104°49'07.693"W	circle
MILLENSIFER FED 36N-30HZ BHL ON PLAT (460'FSL & 2084'FEL, SEC.30) REV-2		7115.00	-4384.34	13.66	3190504.90	1312637.30	40°11'22.470"N	104°49'05.146"W	point
MILLENSIFER 30-10K (NOBLE) 100' CIRCLE		7120.00	-3174.96	581.41	3191063.30	1313850.95	40°11'34.421"N	104°48'57.830"W	circle
MILLENSIFER 30-15K (NOBLE) 100' CIRCLE		7217.00	-4077.22	273.02	3190761.87	1312946.40	40°11'25.505"N	104°49'01.804"W	circle
MILLENSIFER FED 36N-30HZ LAND BOX		7297.00	0.00	0.00	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon
MILLENSIFER FED 4 PAD HARDLINES (460'SETBACKS)		7297.00	0.00	0.00	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH COMPOSITION - Ref Wellbore: MILLENSIFER FED 36N-30HZ AWP Ref Wellpath: MILLENSIFER FED 36N-30HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	693.00	Generic gyro - continuous (Standard)	GYRODATA SURVEYS <113-693>	MILLENSIFER FED 36N-30HZ AWP
693.00	7432.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <872-7432>	MILLENSIFER FED 36N-30HZ AWP
7432.00	11569.00	OnTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7517-11569>	MILLENSIFER FED 36N-30HZ AWP
11569.00	11653.00	Blind Drilling (std)	Projection to bit	MILLENSIFER FED 36N-30HZ AWP



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 36N-30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 36N-30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	291.910	13.00	Tie-On
113.00	0.120	291.910	113.00	Begin GYRO Surveys
693.00	0.410	263.030	692.99	Tie-Into GYRO Surveys
872.00	0.500	265.900	871.99	Begin BHI MWD+IFR Surveys
7474.00	88.280	181.045	7100.70	7" Casing Point
11569.00	89.800	179.300	7109.68	Last BHI MWD+IFR Surveys
11653.00	89.800	179.300	7109.97	Projection to Bit