





Planned Wellpath Report
GITTLEIN 29N-28HZ (PERMIT) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33)
Area	COLORADO	Well	GITTLEIN 29N-28HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GITTLEIN 29N-28HZ PWB
Facility	SEC.33-T2N-R65W		

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	0.999961	Report Generated	8/20/2012 at 10:03:30
Convergence at slot	0.54° East	Database/Source file	WellArchitectDB/GITTLEIN_29N-28HZ_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	26.93	924.44	3231969.34	1276114.62	40°05'18.056"N	104°40'15.262"W
Facility Reference Pt			3231045.24	1276079.08	40°05'17.790"N	104°40'27.156"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Rig on SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33) (RKB)
MD Reference Pt	Rig on SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33) (RKB)
Field Vertical Reference	Mean Sea Level



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WELLPATH DATA (153 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	207.800	0.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
17.00	0.000	207.800	17.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
117.00†	0.000	207.800	117.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
217.00†	0.000	207.800	217.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
317.00†	0.000	207.800	317.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
417.00†	0.000	207.800	417.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
517.00†	0.000	207.800	517.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
617.00†	0.000	207.800	617.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
717.00†	0.000	207.800	717.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
750.00†	0.000	207.800	750.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	FOX HILLS
817.00†	0.000	207.800	817.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
917.00†	0.000	207.800	917.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1017.00†	0.000	207.800	1017.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1117.00†	0.000	207.800	1117.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1217.00†	0.000	207.800	1217.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1317.00†	0.000	207.800	1317.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1417.00†	0.000	207.800	1417.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1500.00	0.000	207.800	1500.00	0.00	0.00	0.00	40°05'18.056"N	104°40'15.262"W	0.00	
1517.00†	0.340	207.800	1517.00	-0.04	-0.04	-0.02	40°05'18.056"N	104°40'15.262"W	2.00	
1591.50	1.830	207.800	1591.48	-1.28	-1.29	-0.68	40°05'18.043"N	104°40'15.271"W	2.00	
1617.00†	1.830	207.800	1616.97	-2.00	-2.01	-1.06	40°05'18.036"N	104°40'15.276"W	0.00	
1717.00†	1.830	207.800	1716.92	-4.80	-4.84	-2.55	40°05'18.008"N	104°40'15.295"W	0.00	
1817.00†	1.830	207.800	1816.87	-7.60	-7.66	-4.04	40°05'17.980"N	104°40'15.314"W	0.00	
1917.00†	1.830	207.800	1916.82	-10.41	-10.49	-5.53	40°05'17.952"N	104°40'15.333"W	0.00	
2017.00†	1.830	207.800	2016.77	-13.21	-13.31	-7.02	40°05'17.924"N	104°40'15.352"W	0.00	
2117.00†	1.830	207.800	2116.72	-16.01	-16.14	-8.51	40°05'17.897"N	104°40'15.371"W	0.00	
2217.00†	1.830	207.800	2216.67	-18.82	-18.96	-10.00	40°05'17.869"N	104°40'15.391"W	0.00	
2317.00†	1.830	207.800	2316.61	-21.62	-21.79	-11.49	40°05'17.841"N	104°40'15.410"W	0.00	
2417.00†	1.830	207.800	2416.56	-24.42	-24.61	-12.98	40°05'17.813"N	104°40'15.429"W	0.00	
2517.00†	1.830	207.800	2516.51	-27.23	-27.44	-14.47	40°05'17.785"N	104°40'15.448"W	0.00	
2617.00†	1.830	207.800	2616.46	-30.03	-30.26	-15.95	40°05'17.757"N	104°40'15.467"W	0.00	
2717.00†	1.830	207.800	2716.41	-32.83	-33.09	-17.44	40°05'17.729"N	104°40'15.486"W	0.00	
2817.00†	1.830	207.800	2816.36	-35.64	-35.91	-18.93	40°05'17.701"N	104°40'15.506"W	0.00	
2917.00†	1.830	207.800	2916.31	-38.44	-38.74	-20.42	40°05'17.673"N	104°40'15.525"W	0.00	
3017.00†	1.830	207.800	3016.26	-41.24	-41.56	-21.91	40°05'17.645"N	104°40'15.544"W	0.00	
3117.00†	1.830	207.800	3116.21	-44.05	-44.39	-23.40	40°05'17.617"N	104°40'15.563"W	0.00	
3217.00†	1.830	207.800	3216.16	-46.85	-47.21	-24.89	40°05'17.589"N	104°40'15.582"W	0.00	
3317.00†	1.830	207.800	3316.10	-49.65	-50.03	-26.38	40°05'17.562"N	104°40'15.601"W	0.00	
3417.00†	1.830	207.800	3416.05	-52.46	-52.86	-27.87	40°05'17.534"N	104°40'15.621"W	0.00	
3517.00†	1.830	207.800	3516.00	-55.26	-55.68	-29.36	40°05'17.506"N	104°40'15.640"W	0.00	
3617.00†	1.830	207.800	3615.95	-58.06	-58.51	-30.85	40°05'17.478"N	104°40'15.659"W	0.00	
3717.00†	1.830	207.800	3715.90	-60.87	-61.33	-32.34	40°05'17.450"N	104°40'15.678"W	0.00	
3817.00†	1.830	207.800	3815.85	-63.67	-64.16	-33.83	40°05'17.422"N	104°40'15.697"W	0.00	
3917.00†	1.830	207.800	3915.80	-66.47	-66.98	-35.32	40°05'17.394"N	104°40'15.716"W	0.00	
4017.00†	1.830	207.800	4015.75	-69.28	-69.81	-36.81	40°05'17.366"N	104°40'15.736"W	0.00	



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Area	COLORADO	Well	GITTLEIN 29N-28HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GITTLEIN 29N-28HZ PWB
Facility	SEC.33-T2N-R65W		

WELLPATH DATA (153 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4117.00†	1.830	207.800	4115.70	-72.08	-72.63	-38.30	40°05'17.338"N	104°40'15.755"W	0.00	
4217.00†	1.830	207.800	4215.65	-74.88	-75.46	-39.78	40°05'17.310"N	104°40'15.774"W	0.00	
4317.00†	1.830	207.800	4315.59	-77.69	-78.28	-41.27	40°05'17.282"N	104°40'15.793"W	0.00	
4417.00†	1.830	207.800	4415.54	-80.49	-81.11	-42.76	40°05'17.254"N	104°40'15.812"W	0.00	
4517.00†	1.830	207.800	4515.49	-83.29	-83.93	-44.25	40°05'17.227"N	104°40'15.831"W	0.00	
4617.00†	1.830	207.800	4615.44	-86.10	-86.76	-45.74	40°05'17.199"N	104°40'15.851"W	0.00	
4717.00†	1.830	207.800	4715.39	-88.90	-89.58	-47.23	40°05'17.171"N	104°40'15.870"W	0.00	
4817.00†	1.830	207.800	4815.34	-91.70	-92.41	-48.72	40°05'17.143"N	104°40'15.889"W	0.00	
4917.00†	1.830	207.800	4915.29	-94.51	-95.23	-50.21	40°05'17.115"N	104°40'15.908"W	0.00	
4944.73†	1.830	207.800	4943.00	-95.29	-96.02	-50.62	40°05'17.107"N	104°40'15.913"W	0.00	SUSSEX
5017.00†	1.830	207.800	5015.24	-97.31	-98.06	-51.70	40°05'17.087"N	104°40'15.927"W	0.00	
5117.00†	1.830	207.800	5115.19	-100.11	-100.88	-53.19	40°05'17.059"N	104°40'15.946"W	0.00	
5217.00†	1.830	207.800	5215.14	-102.92	-103.71	-54.68	40°05'17.031"N	104°40'15.966"W	0.00	
5317.00†	1.830	207.800	5315.08	-105.72	-106.53	-56.17	40°05'17.003"N	104°40'15.985"W	0.00	
5417.00†	1.830	207.800	5415.03	-108.52	-109.36	-57.66	40°05'16.975"N	104°40'16.004"W	0.00	
5517.00†	1.830	207.800	5514.98	-111.33	-112.18	-59.15	40°05'16.947"N	104°40'16.023"W	0.00	
5617.00†	1.830	207.800	5614.93	-114.13	-115.01	-60.64	40°05'16.919"N	104°40'16.042"W	0.00	
5717.00†	1.830	207.800	5714.88	-116.94	-117.83	-62.13	40°05'16.892"N	104°40'16.061"W	0.00	
5817.00†	1.830	207.800	5814.83	-119.74	-120.66	-63.61	40°05'16.864"N	104°40'16.080"W	0.00	
5917.00†	1.830	207.800	5914.78	-122.54	-123.48	-65.10	40°05'16.836"N	104°40'16.100"W	0.00	
6017.00†	1.830	207.800	6014.73	-125.35	-126.31	-66.59	40°05'16.808"N	104°40'16.119"W	0.00	
6117.00†	1.830	207.800	6114.68	-128.15	-129.13	-68.08	40°05'16.780"N	104°40'16.138"W	0.00	
6217.00†	1.830	207.800	6214.63	-130.95	-131.95	-69.57	40°05'16.752"N	104°40'16.157"W	0.00	
6317.00†	1.830	207.800	6314.57	-133.76	-134.78	-71.06	40°05'16.724"N	104°40'16.176"W	0.00	
6417.00†	1.830	207.800	6414.52	-136.56	-137.60	-72.55	40°05'16.696"N	104°40'16.195"W	0.00	
6460.45	1.830	207.800	6457.95	-137.78	-138.83	-73.20	40°05'16.684"N	104°40'16.204"W	0.00	
6517.00†	4.129	347.857	6514.46	-136.57	-137.64	-74.05	40°05'16.696"N	104°40'16.215"W	10.00	
6617.00†	14.064	356.407	6613.08	-120.87	-121.95	-75.57	40°05'16.851"N	104°40'16.234"W	10.00	
6717.00†	24.053	357.912	6707.48	-88.27	-89.38	-77.08	40°05'17.173"N	104°40'16.254"W	10.00	
6817.00†	34.048	358.566	6794.79	-39.78	-40.90	-78.52	40°05'17.652"N	104°40'16.272"W	10.00	
6917.00†	44.045	358.948	6872.35	23.13	22.00	-79.87	40°05'18.273"N	104°40'16.290"W	10.00	
6990.87†	51.431	359.151	6922.00	77.76	76.62	-80.77	40°05'18.813"N	104°40'16.301"W	10.00	SHARON SPRINGS
7017.00†	54.043	359.213	6937.82	98.56	97.41	-81.06	40°05'19.019"N	104°40'16.305"W	10.00	
7040.10†	56.353	359.265	6951.00	117.52	116.38	-81.32	40°05'19.206"N	104°40'16.308"W	10.00	NIORARA A
7117.00†	64.042	359.418	6989.19	184.20	183.05	-82.08	40°05'19.865"N	104°40'16.318"W	10.00	
7210.17†	73.358	359.579	7023.00	270.91	269.76	-82.83	40°05'20.722"N	104°40'16.328"W	10.00	NIORARA B
7217.00†	74.041	359.591	7024.92	277.47	276.32	-82.88	40°05'20.787"N	104°40'16.328"W	10.00	
7317.00†	84.039	359.746	7043.91	375.51	374.37	-83.45	40°05'21.756"N	104°40'16.336"W	10.00	
7376.61	90.000	359.836	7047.00	435.02	433.87	-83.66	40°05'22.344"N	104°40'16.338"W	10.00	
7417.00†	90.000	359.836	7047.00	475.40	474.26	-83.78	40°05'22.743"N	104°40'16.340"W	0.00	
7517.00†	90.000	359.836	7047.00	575.39	574.26	-84.06	40°05'23.731"N	104°40'16.344"W	0.00	
7617.00†	90.000	359.836	7047.00	675.39	674.26	-84.35	40°05'24.719"N	104°40'16.347"W	0.00	
7717.00†	90.000	359.836	7047.00	775.38	774.26	-84.64	40°05'25.707"N	104°40'16.351"W	0.00	
7817.00†	90.000	359.836	7047.00	875.38	874.26	-84.92	40°05'26.696"N	104°40'16.355"W	0.00	
7917.00†	90.000	359.836	7047.00	975.37	974.26	-85.21	40°05'27.684"N	104°40'16.358"W	0.00	



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8017.00†	90.000	359.836	7047.00	1075.36	1074.25	-85.50	40°05'28.672"N	104°40'16.362"W	0.00	
8117.00†	90.000	359.836	7047.00	1175.36	1174.25	-85.78	40°05'29.660"N	104°40'16.366"W	0.00	
8217.00†	90.000	359.836	7047.00	1275.35	1274.25	-86.07	40°05'30.648"N	104°40'16.369"W	0.00	
8317.00†	90.000	359.836	7047.00	1375.34	1374.25	-86.35	40°05'31.637"N	104°40'16.373"W	0.00	
8417.00†	90.000	359.836	7047.00	1475.34	1474.25	-86.64	40°05'32.625"N	104°40'16.377"W	0.00	
8517.00†	90.000	359.836	7047.00	1575.33	1574.25	-86.93	40°05'33.613"N	104°40'16.380"W	0.00	
8617.00†	90.000	359.836	7047.00	1675.32	1674.25	-87.21	40°05'34.601"N	104°40'16.384"W	0.00	
8717.00†	90.000	359.836	7047.00	1775.32	1774.25	-87.50	40°05'35.589"N	104°40'16.388"W	0.00	
8817.00†	90.000	359.836	7047.00	1875.31	1874.25	-87.79	40°05'36.578"N	104°40'16.392"W	0.00	
8917.00†	90.000	359.836	7047.00	1975.30	1974.25	-88.07	40°05'37.566"N	104°40'16.395"W	0.00	
9017.00†	90.000	359.836	7047.00	2075.30	2074.25	-88.36	40°05'38.554"N	104°40'16.399"W	0.00	
9117.00†	90.000	359.836	7047.00	2175.29	2174.25	-88.64	40°05'39.542"N	104°40'16.403"W	0.00	
9217.00†	90.000	359.836	7047.00	2275.29	2274.25	-88.93	40°05'40.531"N	104°40'16.406"W	0.00	
9317.00†	90.000	359.836	7047.00	2375.28	2374.25	-89.22	40°05'41.519"N	104°40'16.410"W	0.00	
9417.00†	90.000	359.836	7047.00	2475.27	2474.25	-89.50	40°05'42.507"N	104°40'16.414"W	0.00	
9517.00†	90.000	359.836	7047.00	2575.27	2574.25	-89.79	40°05'43.495"N	104°40'16.417"W	0.00	
9617.00†	90.000	359.836	7047.00	2675.26	2674.25	-90.08	40°05'44.483"N	104°40'16.421"W	0.00	
9717.00†	90.000	359.836	7047.00	2775.25	2774.25	-90.36	40°05'45.472"N	104°40'16.425"W	0.00	
9817.00†	90.000	359.836	7047.00	2875.25	2874.25	-90.65	40°05'46.460"N	104°40'16.428"W	0.00	
9917.00†	90.000	359.836	7047.00	2975.24	2974.25	-90.93	40°05'47.448"N	104°40'16.432"W	0.00	
10017.00†	90.000	359.836	7047.00	3075.23	3074.25	-91.22	40°05'48.436"N	104°40'16.436"W	0.00	
10117.00†	90.000	359.836	7047.00	3175.23	3174.25	-91.51	40°05'49.424"N	104°40'16.440"W	0.00	
10217.00†	90.000	359.836	7047.00	3275.22	3274.25	-91.79	40°05'50.413"N	104°40'16.443"W	0.00	
10317.00†	90.000	359.836	7047.00	3375.21	3374.25	-92.08	40°05'51.401"N	104°40'16.447"W	0.00	
10417.00†	90.000	359.836	7047.00	3475.21	3474.25	-92.37	40°05'52.389"N	104°40'16.451"W	0.00	
10517.00†	90.000	359.836	7047.00	3575.20	3574.24	-92.65	40°05'53.377"N	104°40'16.454"W	0.00	
10617.00†	90.000	359.836	7047.00	3675.19	3674.24	-92.94	40°05'54.365"N	104°40'16.458"W	0.00	
10717.00†	90.000	359.836	7047.00	3775.19	3774.24	-93.23	40°05'55.354"N	104°40'16.462"W	0.00	
10817.00†	90.000	359.836	7047.00	3875.18	3874.24	-93.51	40°05'56.342"N	104°40'16.465"W	0.00	
10917.00†	90.000	359.836	7047.00	3975.18	3974.24	-93.80	40°05'57.330"N	104°40'16.469"W	0.00	
11017.00†	90.000	359.836	7047.00	4075.17	4074.24	-94.08	40°05'58.318"N	104°40'16.473"W	0.00	
11117.00†	90.000	359.836	7047.00	4175.16	4174.24	-94.37	40°05'59.307"N	104°40'16.476"W	0.00	
11217.00†	90.000	359.836	7047.00	4275.16	4274.24	-94.66	40°06'00.295"N	104°40'16.480"W	0.00	
11317.00†	90.000	359.836	7047.00	4375.15	4374.24	-94.94	40°06'01.283"N	104°40'16.484"W	0.00	
11417.00†	90.000	359.836	7047.00	4475.14	4474.24	-95.23	40°06'02.271"N	104°40'16.487"W	0.00	
11517.00†	90.000	359.836	7047.00	4575.14	4574.24	-95.52	40°06'03.259"N	104°40'16.491"W	0.00	
11617.00†	90.000	359.836	7047.00	4675.13	4674.24	-95.80	40°06'04.248"N	104°40'16.495"W	0.00	
11717.00†	90.000	359.836	7047.00	4775.12	4774.24	-96.09	40°06'05.236"N	104°40'16.499"W	0.00	
11817.00†	90.000	359.836	7047.00	4875.12	4874.24	-96.38	40°06'06.224"N	104°40'16.502"W	0.00	
11917.00†	90.000	359.836	7047.00	4975.11	4974.24	-96.66	40°06'07.212"N	104°40'16.506"W	0.00	
12017.00†	90.000	359.836	7047.00	5075.10	5074.24	-96.95	40°06'08.200"N	104°40'16.510"W	0.00	
12117.00†	90.000	359.836	7047.00	5175.10	5174.24	-97.23	40°06'09.189"N	104°40'16.513"W	0.00	
12217.00†	90.000	359.836	7047.00	5275.09	5274.24	-97.52	40°06'10.177"N	104°40'16.517"W	0.00	
12317.00†	90.000	359.836	7047.00	5375.08	5374.24	-97.81	40°06'11.165"N	104°40'16.521"W	0.00	
12417.00†	90.000	359.836	7047.00	5475.08	5474.24	-98.09	40°06'12.153"N	104°40'16.524"W	0.00	



Planned Wellpath Report

GITTLEIN 29N-28HZ (PERMIT) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33)
Area	COLORADO	Well	GITTLEIN 29N-28HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GITTLEIN 29N-28HZ PWB
Facility	SEC.33-T2N-R65W		

WELLPATH DATA (153 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12517.00†	90.000	359.836	7047.00	5575.07	5574.24	-98.38	40°06'13.142"N	104°40'16.528"W	0.00	
12617.00†	90.000	359.836	7047.00	5675.07	5674.24	-98.67	40°06'14.130"N	104°40'16.532"W	0.00	
12717.00†	90.000	359.836	7047.00	5775.06	5774.24	-98.95	40°06'15.118"N	104°40'16.535"W	0.00	
12817.00†	90.000	359.836	7047.00	5875.05	5874.24	-99.24	40°06'16.106"N	104°40'16.539"W	0.00	
12917.00†	90.000	359.836	7047.00	5975.05	5974.23	-99.53	40°06'17.094"N	104°40'16.543"W	0.00	
13017.00†	90.000	359.836	7047.00	6075.04	6074.23	-99.81	40°06'18.083"N	104°40'16.547"W	0.00	
13117.00†	90.000	359.836	7047.00	6175.03	6174.23	-100.10	40°06'19.071"N	104°40'16.550"W	0.00	
13217.00†	90.000	359.836	7047.00	6275.03	6274.23	-100.38	40°06'20.059"N	104°40'16.554"W	0.00	
13317.00†	90.000	359.836	7047.00	6375.02	6374.23	-100.67	40°06'21.047"N	104°40'16.558"W	0.00	
13417.00†	90.000	359.836	7047.00	6475.01	6474.23	-100.96	40°06'22.035"N	104°40'16.561"W	0.00	
13517.00†	90.000	359.836	7047.00	6575.01	6574.23	-101.24	40°06'23.024"N	104°40'16.565"W	0.00	
13617.00†	90.000	359.836	7047.00	6675.00	6674.23	-101.53	40°06'24.012"N	104°40'16.569"W	0.00	
13717.00†	90.000	359.836	7047.00	6774.99	6774.23	-101.82	40°06'25.000"N	104°40'16.572"W	0.00	
13817.00†	90.000	359.836	7047.00	6874.99	6874.23	-102.10	40°06'25.988"N	104°40'16.576"W	0.00	
13917.00†	90.000	359.836	7047.00	6974.98	6974.23	-102.39	40°06'26.976"N	104°40'16.580"W	0.00	
14017.00†	90.000	359.836	7047.00	7074.98	7074.23	-102.68	40°06'27.965"N	104°40'16.583"W	0.00	
14117.00†	90.000	359.836	7047.00	7174.97	7174.23	-102.96	40°06'28.953"N	104°40'16.587"W	0.00	
14194.83	90.000	359.836	7047.00†	7252.79	7252.06	-103.19	40°06'29.722"N	104°40'16.590"W	0.00	

HOLE & CASING SECTIONS - Ref Wellbore: GITTLEIN 29N-28HZ PWB Ref Wellpath: GITTLEIN 29N-28HZ (PERMIT) 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	17.00	1300.00	1283.00	17.00	1300.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	17.00	1300.00	1283.00	17.00	1300.00	0.00	0.00	0.00	0.00
8.75in Open Hole	1300.00	7376.61	6076.61	1300.00	7047.00	0.00	0.00	433.87	-83.66
7in Casing Intermediate	17.00	7376.61	7359.61	17.00	7047.00	0.00	0.00	433.87	-83.66
6.125in Open Hole	7376.61	14194.83	6818.22	7047.00	7047.00	433.87	-83.66	7252.06	-103.19
4.5in Casing Production	17.00	14194.83	14177.83	17.00	7047.00	0.00	0.00	7252.06	-103.19



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GITTLEIN 29N-28HZ (PERMIT) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33)
Area	COLORADO	Well	GITTLEIN 29N-28HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GITTLEIN 29N-28HZ PWB
Facility	SEC.33-T2N-R65W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
GITTLEIN 4 PAD SECTION 28 LINES		-6.00	-26.90	-924.44	3231045.24	1276079.08	40°05'17.790"N	104°40'27.156"W	polygon
GITTLEIN 4 PAD SECTION 33 LINES		-6.00	-26.90	-924.44	3231045.24	1276079.08	40°05'17.790"N	104°40'27.156"W	polygon
1) GITTLEIN 29N-28HZ BHL ON PLAT (2181'FSL & 1980'FWL, SEC.28) REV-1	14194.83	7047.00	7252.06	-103.19	3231798.36	1283365.10	40°06'29.722"N	104°40'16.590"W	point
GITTLEIN 4 PAD SEC. 28 HARDLINES (460'SETBACKS)		7294.00	-26.90	-924.44	3231045.24	1276079.08	40°05'17.790"N	104°40'27.156"W	polygon
GITTLEIN 4 PAD SEC. 33 HARDLINES (460'SETBACKS)		7294.00	-26.90	-924.44	3231045.24	1276079.08	40°05'17.790"N	104°40'27.156"W	polygon

SURVEY PROGRAM - Ref Wellbore: GITTLEIN 29N-28HZ PWB Ref Wellpath: GITTLEIN 29N-28HZ (PERMIT) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	7376.61	NaviTrak (Standard)		GITTLEIN 29N-28HZ PWB
7376.61	14194.83	OnTrak (Standard)		GITTLEIN 29N-28HZ PWB



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GITTLEIN 29N-28HZ (PERMIT) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#06 GITTLEIN 29N-28HZ (191'FSL & 2062'FWL, SEC.33)
Area	COLORADO	Well	GITTLEIN 29N-28HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GITTLEIN 29N-28HZ PWB
Facility	SEC.33-T2N-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
750.00	0.000	207.800	750.00	FOX HILLS
4944.73	1.830	207.800	4943.00	SUSSEX
6990.87	51.431	359.151	6922.00	SHARON SPRINGS
7040.10	56.353	359.265	6951.00	NIOBRARA A
7210.17	73.358	359.579	7023.00	NIOBRARA B