

Location: COLORADO

Field: WELD COUNTY (KERR MCGEE)

Facility: SEC.14-T3N-R68W

SLOT#25 DOCHEFF 34N-13HZ (975 FSL & 1513 FWL, SEC.14)

Well: DOCHEFF 34N-13HZ

Wellbore: DOCHEFF 34N-13HZ PWB

Plot reference wellpath is DOCHEFF 34N-13HZ (PERMT REV-1) PWP

True vertical depths are referenced to PERMT (17Kb) (RkB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to PERMT (17Kb) (RkB)	North Reference: True north
PERMT (17Kb) (RkB) to Mean Sea Level: 4952 feet	Scale: True distance
Mean Sea Level to Mud line (M Slot: SLOT#25 DOCHEFF 34N-13HZ (975 FSL & 1513 FWL, SEC.14): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by preacin on 11/sep/2014

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.14-T3N-R68W			3146766.378	1323729.589	40°13'15.029"N	104°58'27.900"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#25 DOCHEFF 34N-13HZ (975 FSL & 1513 FWL, SEC.14)	279.80	56.01	3146820.723	1324009.504	40°13'17.792"N	104°58'27.178"W
PERMT (17Kb) (RkB) to Mud line (M Slot: SLOT#25 DOCHEFF 34N-13HZ (975 FSL & 1513 FWL, SEC.14))					4952ft	
Mean Sea Level to Mud line (M Slot: SLOT#25 DOCHEFF 34N-13HZ (975 FSL & 1513 FWL, SEC.14))					0ft	
PERMT (17Kb) (RkB) to Mean Sea Level					4952ft	

Survey Program

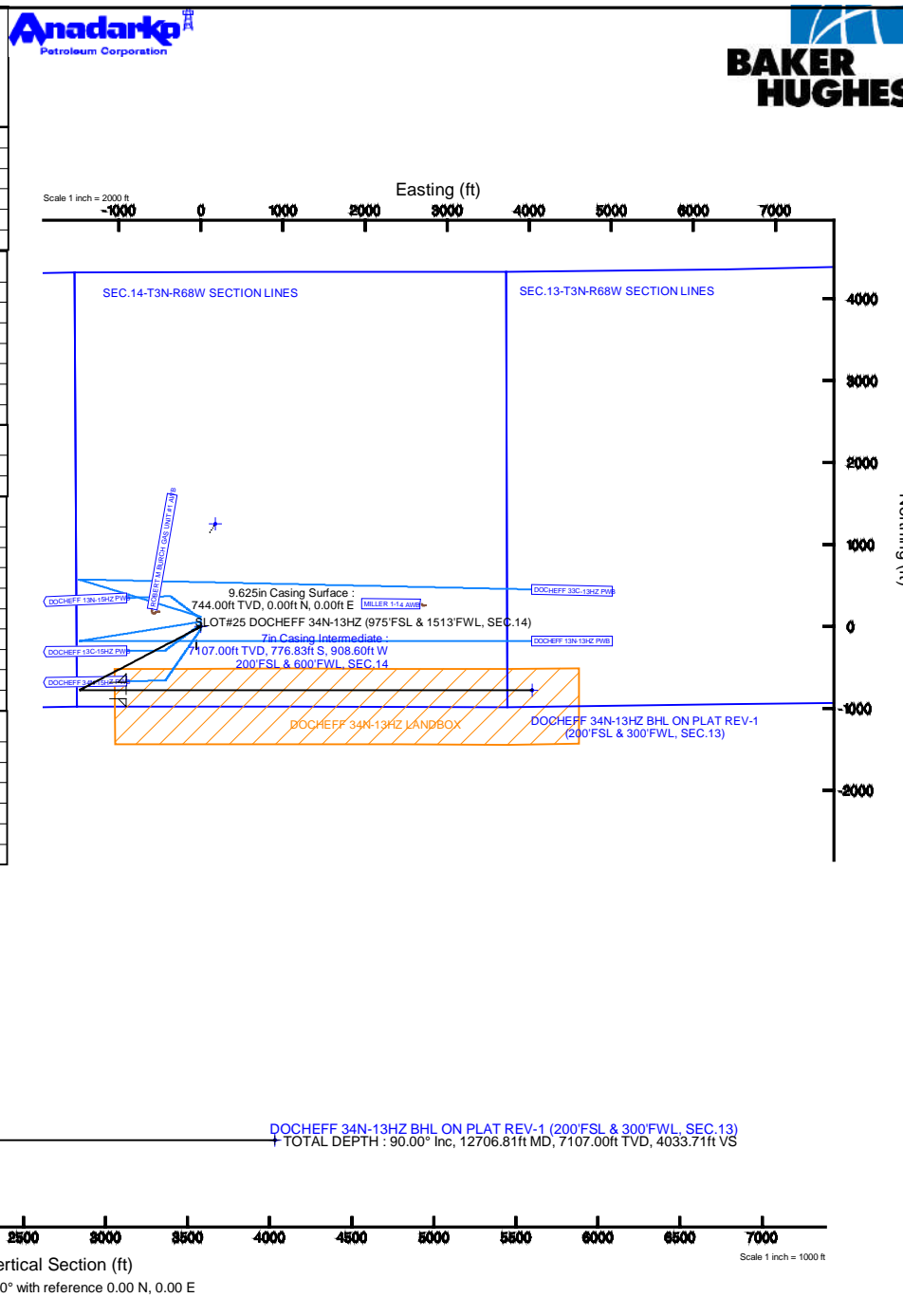
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
17.00	12706.81	NaviTrak	NaviTrak (IFR)_1		DOCHEFF 34N-13HZ PWB

Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
TIE ON	17.00	0.000	242.330	17.00	0.00	0.00	0.00	0.00
BEGIN NUDGE	1100.00	0.000	242.330	1100.00	0.00	0.00	0.00	0.00
END NUDGE	2350.00	25.000	242.330	2310.71	-124.64	-237.71	2.00	-237.71
BEGIN DROP	5038.15	25.000	242.330	4747.00	-652.20	-1243.85	2.00	-1243.86
END DROP	6288.15	0.000	89.998	5957.71	-776.85	-1481.56	0.00	-1481.57
KOP, BUILD @ 10°/100'	6864.48	0.000	89.998	6534.04	-776.85	-1481.56	0.00	-1481.57
LANDING POINT	7764.48	90.000	89.998	7107.00	-776.83	-908.60	10.00	-908.62
TOTAL DEPTH	12706.81	90.000	89.999	7107.00	-776.68	4033.73	0.00	4033.71

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.15-T3N-R68W SECTION LINES		1.00	1253.60	174.53	3146987.81	1325264.06	40°13'30.180"N	104°58'24.928"W
SEC.13-T3N-R68W SECTION LINES		4952.00	3487.80	8446.30	3155245.81	1327547.17	40°13'52.244"N	104°56'38.278"W
SEC.14-T3N-R68W SECTION LINES		4952.00	3487.80	8446.30	3155245.81	1327547.17	40°13'52.244"N	104°56'38.278"W
DOCHEFF 34N-13HZ BH ON PLAT REV-1 (2007 FSL & 300 FWL, SEC.13)	12706.81	7107.00	-776.68	4033.73	3150668.40	1325256.78	40°13'10.114"N	104°57'35.179"W
DOCHEFF 34N-13HZ LAMBOCK		7107.00	0.00	0.00	3146820.72	1324009.50	40°13'17.792"N	104°58'27.178"W



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Precain
Scale	0.999957	Report Generated	11/Sep/2014 at 11:07
Convergence at slot	n/a	Database/Source file	WellArchitectDB/DOCHEFF_34N-13HZ_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	279.60	56.01	3146820.72	1324009.50	40°13'17.792"N	104°58'27.178"W
Facility Reference Pt			3146766.38	1323729.59	40°13'15.029"N	104°58'27.900"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	PERMIT (17'KB) (RKB) to Facility Vertical Datum	4952.00ft
Horizontal Reference Pt	Slot	PERMIT (17'KB) (RKB) to Mean Sea Level	4952.00ft
Vertical Reference Pt	PERMIT (17'KB) (RKB)	PERMIT (17'KB) (RKB) to Mud Line at Slot (SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14))	4952.00ft
MD Reference Pt	PERMIT (17'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.00°

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

WELLPATH DATA (142 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	242.330	0.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
17.00	0.000	242.330	17.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	TIE ON
117.00†	0.000	242.330	117.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
217.00†	0.000	242.330	217.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
317.00†	0.000	242.330	317.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
417.00†	0.000	242.330	417.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
517.00†	0.000	242.330	517.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
552.00†	0.000	242.330	552.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	BASE FOX HILLS
617.00†	0.000	242.330	617.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
717.00†	0.000	242.330	717.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
744.00†	0.000	242.330	744.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	SURFACE CSG SETTING DEPTH
817.00†	0.000	242.330	817.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
917.00†	0.000	242.330	917.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
1017.00†	0.000	242.330	1017.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	
1100.00	0.000	242.330	1100.00	0.00	0.00	0.00	40°13'17.792"N	104°58'27.178"W	0.00	BEGIN NUDGE
1117.00†	0.340	242.330	1117.00	-0.04	-0.02	-0.04	40°13'17.792"N	104°58'27.179"W	2.00	
1217.00†	2.340	242.330	1216.97	-2.12	-1.11	-2.12	40°13'17.781"N	104°58'27.205"W	2.00	
1317.00†	4.340	242.330	1316.79	-7.28	-3.81	-7.28	40°13'17.754"N	104°58'27.272"W	2.00	
1417.00†	6.340	242.330	1416.35	-15.52	-8.14	-15.52	40°13'17.712"N	104°58'27.378"W	2.00	
1517.00†	8.340	242.330	1515.53	-26.83	-14.07	-26.83	40°13'17.653"N	104°58'27.524"W	2.00	
1617.00†	10.340	242.330	1614.20	-41.20	-21.60	-41.20	40°13'17.579"N	104°58'27.709"W	2.00	
1717.00†	12.340	242.330	1712.24	-58.62	-30.74	-58.62	40°13'17.488"N	104°58'27.934"W	2.00	
1817.00†	14.340	242.330	1809.54	-79.05	-41.45	-79.05	40°13'17.382"N	104°58'28.197"W	2.00	
1917.00†	16.340	242.330	1905.97	-102.48	-53.73	-102.48	40°13'17.261"N	104°58'28.499"W	2.00	
2017.00†	18.340	242.330	2001.42	-128.87	-67.57	-128.87	40°13'17.124"N	104°58'28.839"W	2.00	
2117.00†	20.340	242.330	2095.77	-158.20	-82.95	-158.20	40°13'16.972"N	104°58'29.217"W	2.00	
2217.00†	22.340	242.330	2188.91	-190.43	-99.85	-190.43	40°13'16.805"N	104°58'29.633"W	2.00	
2317.00†	24.340	242.330	2280.72	-225.52	-118.25	-225.51	40°13'16.623"N	104°58'30.085"W	2.00	
2350.00	25.000	242.330	2310.71	-237.71	-124.64	-237.71	40°13'16.560"N	104°58'30.242"W	2.00	END NUDGE
2417.00†	25.000	242.330	2371.43	-262.79	-137.79	-262.79	40°13'16.430"N	104°58'30.566"W	0.00	
2517.00†	25.000	242.330	2462.07	-300.22	-157.42	-300.22	40°13'16.236"N	104°58'31.048"W	0.00	
2617.00†	25.000	242.330	2552.70	-337.65	-177.04	-337.65	40°13'16.042"N	104°58'31.531"W	0.00	
2717.00†	25.000	242.330	2643.33	-375.08	-196.67	-375.08	40°13'15.849"N	104°58'32.013"W	0.00	
2817.00†	25.000	242.330	2733.96	-412.51	-216.29	-412.50	40°13'15.655"N	104°58'32.496"W	0.00	
2917.00†	25.000	242.330	2824.59	-449.94	-235.92	-449.93	40°13'15.461"N	104°58'32.978"W	0.00	
3017.00†	25.000	242.330	2915.22	-487.37	-255.55	-487.36	40°13'15.267"N	104°58'33.461"W	0.00	
3117.00†	25.000	242.330	3005.85	-524.79	-275.17	-524.79	40°13'15.073"N	104°58'33.943"W	0.00	
3217.00†	25.000	242.330	3096.48	-562.22	-294.80	-562.22	40°13'14.879"N	104°58'34.426"W	0.00	
3317.00†	25.000	242.330	3187.11	-599.65	-314.42	-599.65	40°13'14.685"N	104°58'34.908"W	0.00	
3417.00†	25.000	242.330	3277.74	-637.08	-334.05	-637.08	40°13'14.491"N	104°58'35.391"W	0.00	
3517.00†	25.000	242.330	3368.37	-674.51	-353.67	-674.50	40°13'14.297"N	104°58'35.873"W	0.00	
3617.00†	25.000	242.330	3459.00	-711.94	-373.30	-711.93	40°13'14.103"N	104°58'36.356"W	0.00	
3717.00†	25.000	242.330	3549.63	-749.37	-392.92	-749.36	40°13'13.909"N	104°58'36.838"W	0.00	
3814.50†	25.000	242.330	3638.00	-785.86	-412.06	-785.85	40°13'13.720"N	104°58'37.309"W	0.00	PARKMAN
3817.00†	25.000	242.330	3640.27	-786.80	-412.55	-786.79	40°13'13.715"N	104°58'37.321"W	0.00	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

WELLPATH DATA (142 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3917.00†	25.000	242.330	3730.90	-824.23	-432.17	-824.22	40°13'13.521"N	104°58'37.803"W	0.00	
4017.00†	25.000	242.330	3821.53	-861.66	-451.80	-861.65	40°13'13.327"N	104°58'38.286"W	0.00	
4117.00†	25.000	242.330	3912.16	-899.08	-471.43	-899.08	40°13'13.133"N	104°58'38.768"W	0.00	
4217.00†	25.000	242.330	4002.79	-936.51	-491.05	-936.50	40°13'12.939"N	104°58'39.251"W	0.00	
4317.00†	25.000	242.330	4093.42	-973.94	-510.68	-973.93	40°13'12.745"N	104°58'39.733"W	0.00	
4325.36†	25.000	242.330	4101.00	-977.07	-512.32	-977.06	40°13'12.729"N	104°58'39.773"W	0.00	SUSSEX
4417.00†	25.000	242.330	4184.05	-1011.37	-530.30	-1011.36	40°13'12.551"N	104°58'40.216"W	0.00	
4517.00†	25.000	242.330	4274.68	-1048.80	-549.93	-1048.79	40°13'12.357"N	104°58'40.698"W	0.00	
4617.00†	25.000	242.330	4365.31	-1086.23	-569.55	-1086.22	40°13'12.163"N	104°58'41.181"W	0.00	
4717.00†	25.000	242.330	4455.94	-1123.66	-589.18	-1123.65	40°13'11.970"N	104°58'41.663"W	0.00	
4817.00†	25.000	242.330	4546.57	-1161.09	-608.80	-1161.08	40°13'11.776"N	104°58'42.146"W	0.00	
4917.00†	25.000	242.330	4637.20	-1198.52	-628.43	-1198.51	40°13'11.582"N	104°58'42.628"W	0.00	
5017.00†	25.000	242.330	4727.84	-1235.95	-648.05	-1235.93	40°13'11.388"N	104°58'43.111"W	0.00	
5038.15	25.000	242.330	4747.00	-1243.86	-652.20	-1243.85	40°13'11.347"N	104°58'43.213"W	0.00	BEGIN DROP
5117.00†	23.423	242.330	4818.92	-1272.50	-667.22	-1272.49	40°13'11.198"N	104°58'43.582"W	2.00	
5217.00†	21.423	242.330	4911.35	-1306.28	-684.93	-1306.27	40°13'11.023"N	104°58'44.017"W	2.00	
5317.00†	19.423	242.330	5005.06	-1337.18	-701.14	-1337.17	40°13'10.863"N	104°58'44.416"W	2.00	
5417.00†	17.423	242.330	5099.93	-1365.17	-715.81	-1365.16	40°13'10.718"N	104°58'44.776"W	2.00	
5517.00†	15.423	242.330	5195.84	-1390.21	-728.94	-1390.20	40°13'10.588"N	104°58'45.099"W	2.00	
5617.00†	13.423	242.330	5292.69	-1412.27	-740.51	-1412.25	40°13'10.474"N	104°58'45.383"W	2.00	
5717.00†	11.423	242.330	5390.34	-1431.32	-750.50	-1431.31	40°13'10.375"N	104°58'45.629"W	2.00	
5817.00†	9.423	242.330	5488.69	-1447.34	-758.90	-1447.33	40°13'10.292"N	104°58'45.836"W	2.00	
5917.00†	7.423	242.330	5587.60	-1460.31	-765.70	-1460.30	40°13'10.225"N	104°58'46.003"W	2.00	
6017.00†	5.423	242.330	5686.97	-1470.22	-770.89	-1470.21	40°13'10.174"N	104°58'46.130"W	2.00	
6117.00†	3.423	242.330	5786.67	-1477.05	-774.47	-1477.03	40°13'10.138"N	104°58'46.218"W	2.00	
6217.00†	1.423	242.330	5886.57	-1480.79	-776.44	-1480.78	40°13'10.119"N	104°58'46.267"W	2.00	
6288.15	0.000	89.998	5957.71	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	2.00	END DROP
6317.00†	0.000	89.998	5986.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6417.00†	0.000	89.998	6086.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6517.00†	0.000	89.998	6186.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6617.00†	0.000	89.998	6286.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6717.00†	0.000	89.998	6386.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6817.00†	0.000	89.998	6486.57	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	
6864.48	0.000	89.998	6534.04	-1481.57	-776.85	-1481.56	40°13'10.115"N	104°58'46.277"W	0.00	KOP, BUILD @ 10°/100'
6917.00†	5.252	89.998	6586.49	-1479.17	-776.85	-1479.16	40°13'10.115"N	104°58'46.246"W	10.00	
7017.00†	15.252	89.998	6684.77	-1461.39	-776.85	-1461.38	40°13'10.115"N	104°58'46.017"W	10.00	
7117.00†	25.252	89.998	6778.47	-1426.82	-776.85	-1426.81	40°13'10.115"N	104°58'45.571"W	10.00	
7217.00†	35.252	89.998	6864.74	-1376.50	-776.84	-1376.49	40°13'10.115"N	104°58'44.922"W	10.00	
7317.00†	45.252	89.998	6940.97	-1311.97	-776.84	-1311.96	40°13'10.115"N	104°58'44.090"W	10.00	
7349.23†	48.476	89.998	6963.00	-1288.45	-776.84	-1288.44	40°13'10.115"N	104°58'43.787"W	10.00	SHARON SPRINGS
7417.00†	55.252	89.998	7004.82	-1235.18	-776.84	-1235.17	40°13'10.115"N	104°58'43.101"W	10.00	
7468.02†	60.354	89.998	7032.00	-1192.02	-776.84	-1192.01	40°13'10.115"N	104°58'42.544"W	10.00	NIOBRARA
7517.00†	65.252	89.998	7054.38	-1148.47	-776.84	-1148.46	40°13'10.115"N	104°58'41.983"W	10.00	
7612.64†	74.816	89.998	7087.00	-1058.68	-776.83	-1058.67	40°13'10.115"N	104°58'40.825"W	10.00	NIOBRARA B
7617.00†	75.252	89.998	7088.12	-1054.47	-776.83	-1054.46	40°13'10.115"N	104°58'40.771"W	10.00	

Planned Wellpath Report

DOCHEFF 34N-13HZ (PERMIT REV-1) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

WELLPATH DATA (142 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7717.00†	85.252	89.998	7105.03	-956.04	-776.83	-956.03	40°13'10.115"N	104°58'39.502"W	10.00	
7764.48	90.000	89.998	7107.00	-908.62	-776.83	-908.60	40°13'10.115"N	104°58'38.891"W	10.00	LANDING POINT
7817.00†	90.000	89.998	7107.00	-856.09	-776.83	-856.08	40°13'10.115"N	104°58'38.214"W	0.00	
7917.00†	90.000	89.998	7107.00	-756.09	-776.82	-756.08	40°13'10.115"N	104°58'36.925"W	0.00	
8017.00†	90.000	89.998	7107.00	-656.09	-776.82	-656.08	40°13'10.115"N	104°58'35.636"W	0.00	
8117.00†	90.000	89.998	7107.00	-556.09	-776.82	-556.08	40°13'10.115"N	104°58'34.346"W	0.00	
8217.00†	90.000	89.998	7107.00	-456.09	-776.81	-456.08	40°13'10.116"N	104°58'33.057"W	0.00	
8317.00†	90.000	89.998	7107.00	-356.09	-776.81	-356.08	40°13'10.116"N	104°58'31.768"W	0.00	
8417.00†	90.000	89.998	7107.00	-256.09	-776.81	-256.08	40°13'10.116"N	104°58'30.479"W	0.00	
8517.00†	90.000	89.998	7107.00	-156.09	-776.80	-156.08	40°13'10.116"N	104°58'29.190"W	0.00	
8617.00†	90.000	89.998	7107.00	-56.09	-776.80	-56.08	40°13'10.116"N	104°58'27.901"W	0.00	
8717.00†	90.000	89.998	7107.00	43.91	-776.80	43.92	40°13'10.116"N	104°58'26.612"W	0.00	
8817.00†	90.000	89.998	7107.00	143.91	-776.79	143.92	40°13'10.116"N	104°58'25.323"W	0.00	
8917.00†	90.000	89.998	7107.00	243.91	-776.79	243.92	40°13'10.116"N	104°58'24.034"W	0.00	
9017.00†	90.000	89.998	7107.00	343.91	-776.79	343.92	40°13'10.116"N	104°58'22.745"W	0.00	
9117.00†	90.000	89.998	7107.00	443.91	-776.78	443.92	40°13'10.116"N	104°58'21.455"W	0.00	
9217.00†	90.000	89.998	7107.00	543.91	-776.78	543.92	40°13'10.116"N	104°58'20.166"W	0.00	
9317.00†	90.000	89.998	7107.00	643.91	-776.78	643.92	40°13'10.116"N	104°58'18.877"W	0.00	
9417.00†	90.000	89.998	7107.00	743.91	-776.77	743.92	40°13'10.116"N	104°58'17.588"W	0.00	
9517.00†	90.000	89.998	7107.00	843.91	-776.77	843.92	40°13'10.116"N	104°58'16.299"W	0.00	
9617.00†	90.000	89.998	7107.00	943.91	-776.77	943.92	40°13'10.116"N	104°58'15.010"W	0.00	
9717.00†	90.000	89.998	7107.00	1043.91	-776.76	1043.92	40°13'10.116"N	104°58'13.721"W	0.00	
9817.00†	90.000	89.998	7107.00	1143.91	-776.76	1143.92	40°13'10.116"N	104°58'12.432"W	0.00	
9917.00†	90.000	89.998	7107.00	1243.91	-776.76	1243.92	40°13'10.116"N	104°58'11.143"W	0.00	
10017.00†	90.000	89.998	7107.00	1343.91	-776.76	1343.92	40°13'10.116"N	104°58'09.854"W	0.00	
10117.00†	90.000	89.998	7107.00	1443.91	-776.75	1443.92	40°13'10.116"N	104°58'08.564"W	0.00	
10217.00†	90.000	89.998	7107.00	1543.91	-776.75	1543.92	40°13'10.116"N	104°58'07.275"W	0.00	
10317.00†	90.000	89.998	7107.00	1643.91	-776.75	1643.92	40°13'10.116"N	104°58'05.986"W	0.00	
10417.00†	90.000	89.998	7107.00	1743.91	-776.74	1743.92	40°13'10.116"N	104°58'04.697"W	0.00	
10517.00†	90.000	89.998	7107.00	1843.91	-776.74	1843.92	40°13'10.116"N	104°58'03.408"W	0.00	
10617.00†	90.000	89.998	7107.00	1943.91	-776.74	1943.92	40°13'10.116"N	104°58'02.119"W	0.00	
10717.00†	90.000	89.998	7107.00	2043.91	-776.74	2043.92	40°13'10.116"N	104°58'00.830"W	0.00	
10817.00†	90.000	89.998	7107.00	2143.91	-776.73	2143.92	40°13'10.115"N	104°57'59.541"W	0.00	
10917.00†	90.000	89.998	7107.00	2243.91	-776.73	2243.92	40°13'10.115"N	104°57'58.252"W	0.00	
11017.00†	90.000	89.998	7107.00	2343.91	-776.73	2343.92	40°13'10.115"N	104°57'56.963"W	0.00	
11117.00†	90.000	89.998	7107.00	2443.91	-776.72	2443.92	40°13'10.115"N	104°57'55.673"W	0.00	
11217.00†	90.000	89.998	7107.00	2543.91	-776.72	2543.92	40°13'10.115"N	104°57'54.384"W	0.00	
11317.00†	90.000	89.998	7107.00	2643.91	-776.72	2643.92	40°13'10.115"N	104°57'53.095"W	0.00	
11417.00†	90.000	89.999	7107.00	2743.91	-776.72	2743.92	40°13'10.115"N	104°57'51.806"W	0.00	
11517.00†	90.000	89.999	7107.00	2843.91	-776.71	2843.92	40°13'10.115"N	104°57'50.517"W	0.00	
11617.00†	90.000	89.999	7107.00	2943.91	-776.71	2943.92	40°13'10.115"N	104°57'49.228"W	0.00	
11717.00†	90.000	89.999	7107.00	3043.91	-776.71	3043.92	40°13'10.115"N	104°57'47.939"W	0.00	
11817.00†	90.000	89.999	7107.00	3143.91	-776.71	3143.92	40°13'10.115"N	104°57'46.650"W	0.00	
11917.00†	90.000	89.999	7107.00	3243.91	-776.70	3243.92	40°13'10.115"N	104°57'45.361"W	0.00	
12017.00†	90.000	89.999	7107.00	3343.91	-776.70	3343.92	40°13'10.114"N	104°57'44.072"W	0.00	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

WELLPATH DATA (142 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12117.00†	90.000	89.999	7107.00	3443.91	-776.70	3443.92	40°13'10.114"N	104°57'42.782"W	0.00	
12217.00†	90.000	89.999	7107.00	3543.91	-776.70	3543.92	40°13'10.114"N	104°57'41.493"W	0.00	
12317.00†	90.000	89.999	7107.00	3643.91	-776.69	3643.92	40°13'10.114"N	104°57'40.204"W	0.00	
12417.00†	90.000	89.999	7107.00	3743.91	-776.69	3743.92	40°13'10.114"N	104°57'38.915"W	0.00	
12517.00†	90.000	89.999	7107.00	3843.91	-776.69	3843.92	40°13'10.114"N	104°57'37.626"W	0.00	
12617.00†	90.000	89.999	7107.00	3943.91	-776.69	3943.92	40°13'10.114"N	104°57'36.337"W	0.00	
12706.81	90.000	89.999	7107.00 ¹	4033.71	-776.68	4033.73	40°13'10.114"N	104°57'35.179"W	0.00	TOTAL DEPTH

HOLE & CASING SECTIONS - Ref Wellbore: DOCHEFF 34N-13HZ PWB Ref Wellpath: DOCHEFF 34N-13HZ (PERMIT REV-1) 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]
13.5in Open Hole	17.00	744.00	727.00	17.00	744.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	17.00	744.00	727.00	17.00	744.00	0.00	0.00	0.00	0.00
8.75in Open Hole	744.00	7764.48	7020.48	744.00	7107.00	0.00	0.00	-776.83	-908.60
7in Casing Intermediate	17.00	7764.48	7747.48	17.00	7107.00	0.00	0.00	-776.83	-908.60
6.125in Open Hole	7764.48	12706.81	4942.33	7107.00	NA	-776.83	-908.60	NA	NA
4.5in Casing Production	17.00	12706.81	12689.81	17.00	NA	0.00	0.00	NA	NA

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO	Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.15-T3N-R68W SECTION LINES		1.00	1253.60	174.53	3146987.81	1325264.06	40°13'30.180"N	104°58'24.928"W	polygon
SEC.13-T3N-R68W SECTION LINES		4952.00	3487.80	8446.30	3155245.81	1327547.17	40°13'52.244"N	104°56'38.278"W	polygon
SEC.14-T3N-R68W SECTION LINES		4952.00	3487.80	8446.30	3155245.81	1327547.17	40°13'52.244"N	104°56'38.278"W	polygon
1) DOCHEFF 34N-13HZ BHL ON PLAT REV-1 (200'FSL & 300'FWL, SEC.13)	12706.81	7107.00	-776.68	4033.73	3150858.80	1323256.78	40°13'10.114"N	104°57'35.179"W	point
DOCHEFF 34N-13HZ LANDBOX		7107.00	0.00	0.00	3146820.72	1324009.50	40°13'17.792"N	104°58'27.178"W	polygon

SURVEY PROGRAM - Ref Wellbore: DOCHEFF 34N-13HZ PWB Ref Wellpath: DOCHEFF 34N-13HZ (PERMIT REV-1) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	12706.81	NaviTrak (IFR)_1		DOCHEFF 34N-13HZ PWB

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP		Slot	SLOT#25 DOCHEFF 34N-13HZ (975'FSL & 1513'FWL, SEC.14)
Area	COLORADO		Well	DOCHEFF 34N-13HZ
Field	WELD COUNTY (KERR MCGEE)		Wellbore	DOCHEFF 34N-13HZ PWB
Facility	SEC.14-T3N-R68W			

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
552.00	0.000	242.330	552.00	BASE FOX HILLS
744.00	0.000	242.330	744.00	SURFACE CSG SETTING DEPTH
3814.50	25.000	242.330	3638.00	PARKMAN
4325.36	25.000	242.330	4101.00	SUSSEX
7349.23	48.476	89.998	6963.00	SHARON SPRINGS
7468.02	60.354	89.998	7032.00	NIOBRARA
7612.64	74.816	89.998	7087.00	NIOBRARA B

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	242.330	17.00	TIE ON
1100.00	0.000	242.330	1100.00	BEGIN NUDGE
2350.00	25.000	242.330	2310.71	END NUDGE
5038.15	25.000	242.330	4747.00	BEGIN DROP
6288.15	0.000	89.998	5957.71	END DROP
6864.48	0.000	89.998	6534.04	KOP, BUILD @ 10°/100'
7764.48	90.000	89.998	7107.00	LANDING POINT
12706.81	90.000	89.999	7107.00	TOTAL DEPTH