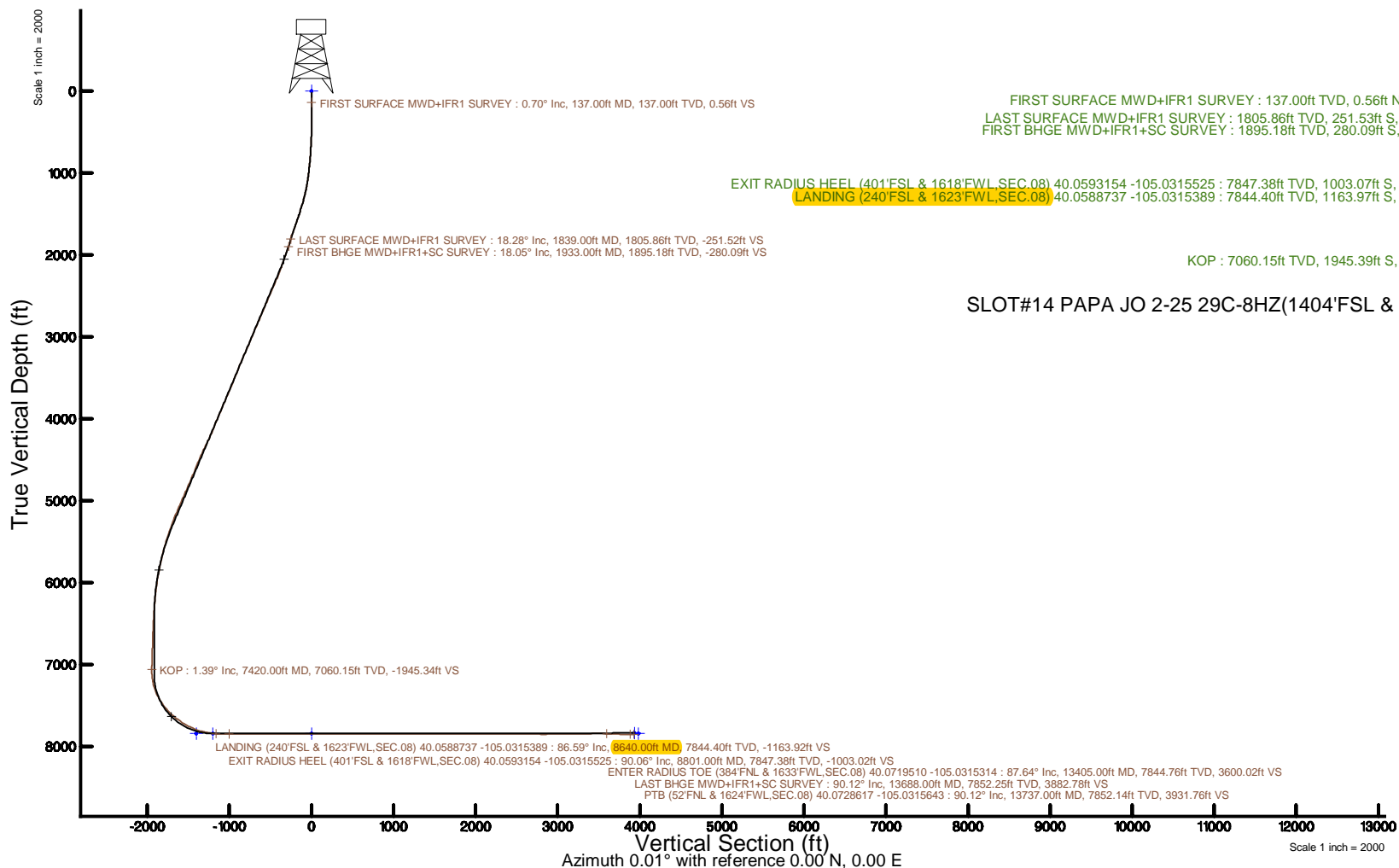


Location:	COLORADO	Slot:	SLOT#14 PAPA JO 2-25 29C-8HZ(1404FSL & 1309FWL,SEC.08)
Field:	WELD COUNTY (UTM/TRUE NORTH)	Well:	PAPA JO 2-25 29C-8HZ
Facility:	SEC.08-T1N-R6W	Wellbore:	PAPA JO 2-25 29C-8HZ PWB
Plot reference wellpath is PAPA JO 2-25 29C-8HZ PWP Rev.B.0			
True vertical depths are referenced to PD 564 (26) (RT)			
Measured depths are referenced to PD 564 (26) (RT)			
PD 564 (26) to Mean Sea Level: 5089 feet			
Mean Sea Level to Mud line (At Slot: SLO#14 PAPA JO 2-25 29C-8HZ(1404FSL & 1309FWL,SEC.08)): 0 feet			
Coordinates are in feet referenced to Slot			
		Grid System: NAD83 / UTM Zone 13 North, US feet	
		* = Wellpath was transformed from a different geoidic datum	
		North Reference: True north	
		Scale: True distance	
		Depths are in feet	
		Created by: painstmr on 2018-01-11	
		Database: WA_DEN_Anadarko_Data	



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 13 North, US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Painsetr
Scale	0.999600	Report Generated	1/11/2018 at 9:07 AM
Convergence at slot	0.03° West	Database/Source file	WA_DEN_Anadarko_Defn/PAPA_JO_2-25_29C-8HZ_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-841.90	-928.99	1631278.80	14549337.06	40°03'43.448"N	105°01'57.572"W
Facility Reference Pt			1632207.69	14550178.32	40°03'51.768"N	105°01'45.624"W
Field Reference Pt			1698235.31	14552047.82	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	PD 564 (26') (RT) to Facility Vertical Datum	5089.00ft
Horizontal Reference Pt	Slot	PD 564 (26') (RT) to Mean Sea Level	5089.00ft
Vertical Reference Pt	PD 564 (26') (RT)	PD 564 (26') (RT) to Mud Line at Slot (SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08))	5089.00ft
MD Reference Pt	PD 564 (26') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.01°

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

## WELLPATH DATA (192 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	34.470	0.00	0.00	0.00	0.00	1631278.80	14549337.06	40°03'43.448"N	105°01'57.572"W	0.00	
26.00	0.000	34.470	26.00	0.00	0.00	0.00	1631278.80	14549337.06	40°03'43.448"N	105°01'57.572"W	0.00	
137.00	0.700	34.470	137.00	0.56	0.56	0.38	1631279.18	14549337.62	40°03'43.454"N	105°01'57.567"W	0.63	FIRST SURFACE MWD+IFR1 SURVEY
169.00	0.830	47.480	168.99	0.88	0.88	0.67	1631279.47	14549337.94	40°03'43.457"N	105°01'57.563"W	0.68	
200.00	0.790	22.690	199.99	1.23	1.23	0.91	1631279.71	14549338.29	40°03'43.460"N	105°01'57.560"W	1.13	
232.00	0.880	38.600	231.99	1.62	1.62	1.15	1631279.95	14549338.68	40°03'43.464"N	105°01'57.557"W	0.77	
263.00	1.230	34.120	262.98	2.08	2.08	1.49	1631280.29	14549339.14	40°03'43.469"N	105°01'57.553"W	1.16	
295.00	0.750	7.580	294.98	2.57	2.57	1.71	1631280.51	14549339.64	40°03'43.473"N	105°01'57.550"W	2.04	
326.00	0.700	6.520	325.98	2.96	2.96	1.76	1631280.56	14549340.03	40°03'43.477"N	105°01'57.549"W	0.17	
358.00	0.310	319.410	357.97	3.22	3.22	1.72	1631280.52	14549340.28	40°03'43.480"N	105°01'57.550"W	1.68	
389.00	0.750	251.120	388.97	3.22	3.22	1.47	1631280.28	14549340.28	40°03'43.480"N	105°01'57.553"W	2.25	
453.00	1.760	225.020	452.96	2.39	2.39	0.38	1631279.18	14549339.45	40°03'43.472"N	105°01'57.567"W	1.77	
484.00	2.020	210.960	483.94	1.59	1.59	-0.23	1631278.57	14549338.65	40°03'43.464"N	105°01'57.575"W	1.71	
516.00	2.330	211.040	515.92	0.55	0.55	-0.86	1631277.94	14549337.61	40°03'43.453"N	105°01'57.583"W	0.97	
547.00	2.680	207.260	546.89	-0.64	-0.64	-1.52	1631277.28	14549336.43	40°03'43.442"N	105°01'57.592"W	1.25	
579.00	2.370	183.530	578.86	-1.96	-1.96	-1.90	1631276.90	14549335.10	40°03'43.429"N	105°01'57.596"W	3.38	
611.00	2.810	174.660	610.83	-3.41	-3.41	-1.87	1631276.93	14549333.66	40°03'43.414"N	105°01'57.596"W	1.86	
643.00	3.300	168.680	642.78	-5.09	-5.09	-1.61	1631277.18	14549331.98	40°03'43.398"N	105°01'57.593"W	1.82	
675.00	3.250	168.500	674.73	-6.88	-6.88	-1.25	1631277.55	14549330.18	40°03'43.380"N	105°01'57.588"W	0.16	
706.00	3.650	167.010	705.67	-8.70	-8.70	-0.86	1631277.94	14549328.36	40°03'43.362"N	105°01'57.583"W	1.32	
738.00	3.600	172.110	737.61	-10.69	-10.69	-0.49	1631278.31	14549326.38	40°03'43.342"N	105°01'57.578"W	1.02	
770.00	4.090	171.490	769.54	-12.82	-12.82	-0.18	1631278.61	14549324.25	40°03'43.321"N	105°01'57.574"W	1.54	
802.00	4.360	174.570	801.45	-15.15	-15.15	0.10	1631278.90	14549321.91	40°03'43.298"N	105°01'57.571"W	1.10	
834.00	4.790	170.610	833.35	-17.68	-17.68	0.43	1631279.23	14549319.39	40°03'43.273"N	105°01'57.566"W	1.67	
865.00	5.890	165.340	864.21	-20.50	-20.50	1.05	1631279.84	14549316.57	40°03'43.245"N	105°01'57.559"W	3.88	
897.00	6.770	161.210	896.02	-23.87	-23.87	2.07	1631280.86	14549313.20	40°03'43.212"N	105°01'57.545"W	3.09	
929.00	6.500	161.820	927.80	-27.38	-27.38	3.24	1631282.03	14549309.69	40°03'43.177"N	105°01'57.530"W	0.87	
960.00	6.020	157.610	958.62	-30.55	-30.55	4.41	1631283.20	14549306.52	40°03'43.146"N	105°01'57.515"W	2.14	
992.00	6.240	157.250	990.43	-33.71	-33.71	5.72	1631284.51	14549303.37	40°03'43.115"N	105°01'57.498"W	0.70	
1024.00	7.690	160.070	1022.20	-37.32	-37.32	7.13	1631285.91	14549299.75	40°03'43.079"N	105°01'57.480"W	4.65	
1056.00	8.390	164.460	1053.88	-41.58	-41.58	8.48	1631287.26	14549295.49	40°03'43.037"N	105°01'57.463"W	2.91	
1087.00	8.610	166.130	1084.54	-46.02	-46.02	9.64	1631288.42	14549291.06	40°03'42.993"N	105°01'57.448"W	1.07	
1119.00	9.230	167.010	1116.15	-50.84	-50.84	10.79	1631289.57	14549286.24	40°03'42.946"N	105°01'57.433"W	1.98	
1151.00	9.840	168.150	1147.71	-56.02	-56.02	11.93	1631290.71	14549281.06	40°03'42.894"N	105°01'57.419"W	2.00	
1182.00	11.210	170.260	1178.19	-61.58	-61.58	12.99	1631291.76	14549275.50	40°03'42.839"N	105°01'57.405"W	4.59	
1214.00	12.130	171.930	1209.53	-67.97	-67.98	13.98	1631292.75	14549269.11	40°03'42.776"N	105°01'57.392"W	3.06	
1246.00	12.920	171.760	1240.77	-74.84	-74.85	14.97	1631293.74	14549262.24	40°03'42.708"N	105°01'57.379"W	2.47	
1278.00	14.330	171.140	1271.87	-82.30	-82.30	16.09	1631294.86	14549254.79	40°03'42.635"N	105°01'57.365"W	4.43	
1310.00	15.120	172.640	1302.81	-90.35	-90.35	17.24	1631296.00	14549246.74	40°03'42.555"N	105°01'57.350"W	2.74	
1341.00	15.470	173.250	1332.72	-98.46	-98.47	18.24	1631297.00	14549238.63	40°03'42.475"N	105°01'57.337"W	1.24	
1373.00	15.860	173.430	1363.53	-107.05	-107.05	19.24	1631298.00	14549230.05	40°03'42.390"N	105°01'57.325"W	1.23	
1405.00	16.520	172.810	1394.26	-115.90	-115.91	20.31	1631299.06	14549221.19	40°03'42.303"N	105°01'57.311"W	2.13	
1437.00	17.890	172.550	1424.83	-125.29	-125.30	21.52	1631300.26	14549211.81	40°03'42.210"N	105°01'57.295"W	4.29	
1468.00	18.280	173.510	1454.29	-134.84	-134.85	22.69	1631301.43	14549202.26	40°03'42.115"N	105°01'57.280"W	1.58	
1500.00	18.720	173.070	1484.64	-144.93	-144.93	23.87	1631302.61	14549192.18	40°03'42.016"N	105°01'57.265"W	1.44	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (192 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1531.00	18.810	173.690	1513.99	-154.83	-154.84	25.02	1631303.76	14549182.28	40°03'41.918"N	105°01'57.250"W	0.71	
1563.00	19.250	173.250	1544.24	-165.20	-165.20	26.21	1631304.94	14549171.92	40°03'41.815"N	105°01'57.235"W	1.45	
1595.00	19.730	172.370	1574.41	-175.79	-175.80	27.55	1631306.27	14549161.33	40°03'41.711"N	105°01'57.218"W	1.76	
1627.00	18.760	171.840	1604.62	-186.24	-186.24	28.99	1631307.71	14549150.88	40°03'41.608"N	105°01'57.199"W	3.08	
1658.00	18.370	169.910	1634.01	-195.98	-195.99	30.56	1631309.27	14549141.14	40°03'41.511"N	105°01'57.179"W	2.35	
1690.00	18.240	169.820	1664.39	-205.88	-205.88	32.33	1631311.04	14549131.25	40°03'41.413"N	105°01'57.156"W	0.42	
1722.00	18.190	168.330	1694.79	-215.70	-215.70	34.22	1631312.93	14549121.44	40°03'41.316"N	105°01'57.132"W	1.46	
1754.00	18.330	166.660	1725.18	-225.48	-225.49	36.39	1631315.10	14549111.65	40°03'41.220"N	105°01'57.104"W	1.69	
1785.00	18.330	166.660	1754.60	-234.97	-234.97	38.64	1631317.34	14549102.17	40°03'41.126"N	105°01'57.075"W	0.00	
1817.00	18.370	166.920	1784.98	-244.78	-244.78	40.94	1631319.64	14549092.36	40°03'41.029"N	105°01'57.045"W	0.28	
1839.00	18.280	167.450	1805.86	-251.52	-251.53	42.48	1631321.17	14549085.62	40°03'40.962"N	105°01'57.026"W	0.86	LAST SURFACE MWD+IFR1 SURVEY
1933.00	18.050	166.780	1895.18	-280.09	-280.09	49.01	1631327.69	14549057.06	40°03'40.680"N	105°01'56.942"W	0.33	FIRST BHGE MWD+IFR1+SC SURVEY
2023.00	19.110	167.350	1980.48	-308.03	-308.04	55.43	1631334.09	14549029.12	40°03'40.404"N	105°01'56.859"W	1.19	
2112.00	19.470	165.800	2064.49	-336.63	-336.64	62.26	1631340.91	14549000.54	40°03'40.121"N	105°01'56.771"W	0.70	
2202.00	20.450	166.500	2149.08	-366.46	-366.47	69.61	1631348.24	14548970.72	40°03'39.826"N	105°01'56.677"W	1.12	
2291.00	22.890	170.140	2231.79	-398.63	-398.64	76.20	1631354.82	14548938.55	40°03'39.509"N	105°01'56.592"W	3.13	
2381.00	23.830	170.570	2314.41	-433.81	-433.83	82.18	1631360.78	14548903.38	40°03'39.161"N	105°01'56.515"W	1.06	
2471.00	23.500	171.100	2396.84	-469.47	-469.49	87.93	1631366.52	14548867.73	40°03'38.808"N	105°01'56.441"W	0.44	
2560.00	23.640	170.820	2478.42	-504.62	-504.63	93.52	1631372.10	14548832.60	40°03'38.461"N	105°01'56.369"W	0.20	
2650.00	22.930	172.080	2561.09	-539.80	-539.81	98.82	1631377.38	14548797.43	40°03'38.113"N	105°01'56.301"W	0.96	
2739.00	23.160	169.390	2642.99	-574.17	-574.19	104.43	1631382.98	14548763.07	40°03'37.774"N	105°01'56.229"W	1.21	
2829.00	22.780	172.240	2725.85	-608.83	-608.85	110.04	1631388.57	14548728.42	40°03'37.431"N	105°01'56.157"W	1.31	
2919.00	24.420	173.500	2808.32	-644.58	-644.60	114.50	1631393.02	14548692.68	40°03'37.078"N	105°01'56.099"W	1.91	
3008.00	23.450	170.360	2889.67	-680.32	-680.34	119.55	1631398.05	14548656.95	40°03'36.725"N	105°01'56.034"W	1.80	
3097.00	22.710	170.200	2971.55	-714.71	-714.73	125.44	1631403.93	14548622.57	40°03'36.385"N	105°01'55.959"W	0.83	
3187.00	23.180	172.230	3054.43	-749.38	-749.40	130.79	1631409.26	14548587.91	40°03'36.042"N	105°01'55.890"W	1.02	
3277.00	23.120	171.300	3137.18	-784.40	-784.42	135.86	1631414.32	14548552.91	40°03'35.696"N	105°01'55.825"W	0.41	
3366.00	23.910	171.420	3218.79	-819.50	-819.52	141.19	1631419.63	14548517.82	40°03'35.349"N	105°01'55.756"W	0.89	
3456.00	23.120	171.020	3301.31	-854.99	-855.01	146.67	1631425.10	14548482.34	40°03'34.999"N	105°01'55.686"W	0.90	
3546.00	21.840	170.900	3384.47	-888.97	-889.00	152.08	1631430.49	14548448.37	40°03'34.663"N	105°01'55.616"W	1.42	
3635.00	22.110	172.020	3467.01	-921.91	-921.93	157.02	1631435.42	14548415.45	40°03'34.337"N	105°01'55.553"W	0.56	
3725.00	22.530	169.650	3550.27	-955.64	-955.67	162.47	1631440.85	14548381.72	40°03'34.004"N	105°01'55.483"W	1.10	
3814.00	23.510	170.070	3632.18	-989.90	-989.93	168.59	1631446.96	14548347.47	40°03'33.665"N	105°01'55.404"W	1.12	
3903.00	23.160	170.480	3713.90	-1024.65	-1024.67	174.55	1631452.90	14548312.74	40°03'33.322"N	105°01'55.327"W	0.43	
3993.00	23.450	171.390	3796.56	-1059.81	-1059.83	180.16	1631458.50	14548277.59	40°03'32.974"N	105°01'55.255"W	0.51	
4083.00	23.430	170.180	3879.13	-1095.14	-1095.17	185.89	1631464.22	14548242.26	40°03'32.625"N	105°01'55.181"W	0.54	
4172.00	24.100	171.570	3960.58	-1130.55	-1130.58	191.57	1631469.88	14548206.87	40°03'32.275"N	105°01'55.108"W	0.98	
4262.00	21.360	169.100	4043.59	-1164.83	-1164.86	197.37	1631475.66	14548172.60	40°03'31.937"N	105°01'55.034"W	3.22	
4351.00	22.000	171.090	4126.29	-1197.21	-1197.25	203.01	1631481.29	14548140.22	40°03'31.617"N	105°01'54.961"W	1.10	
4441.00	25.040	171.850	4208.80	-1232.73	-1232.76	208.33	1631486.59	14548104.72	40°03'31.266"N	105°01'54.893"W	3.39	
4530.00	26.590	174.040	4288.92	-1271.19	-1271.22	213.07	1631491.31	14548066.28	40°03'30.886"N	105°01'54.832"W	2.04	
4620.00	25.080	172.510	4369.93	-1310.13	-1310.17	217.64	1631495.88	14548027.34	40°03'30.501"N	105°01'54.773"W	1.83	
4709.00	24.900	172.270	4450.59	-1347.40	-1347.44	222.62	1631500.84	14547990.09	40°03'30.132"N	105°01'54.709"W	0.23	
4823.00	21.270	171.620	4555.45	-1391.65	-1391.69	228.87	1631507.06	14547945.85	40°03'29.695"N	105°01'54.629"W	3.19	
4912.00	22.420	173.080	4638.06	-1424.47	-1424.51	233.26	1631511.45	14547913.04	40°03'29.371"N	105°01'54.572"W	1.43	

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

## WELLPATH DATA (192 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	DLS (°/100ft)	Comments
5002.00	23.450	170.570	4720.94	-1459.18	-1459.21	238.27	1631516.44	14547878.35	40°03'29.028"N	105°01'54.508"W	1.58	
5091.00	24.560	168.810	4802.24	-1494.79	-1494.83	244.76	1631522.91	14547842.74	40°03'28.676"N	105°01'54.424"W	1.48	
5181.00	23.500	167.450	4884.44	-1530.65	-1530.69	252.29	1631530.42	14547806.89	40°03'28.321"N	105°01'54.327"W	1.33	
5270.00	24.960	169.000	4965.60	-1566.41	-1566.45	259.73	1631537.85	14547771.15	40°03'27.968"N	105°01'54.232"W	1.79	
5359.00	23.060	168.660	5046.90	-1601.93	-1601.98	266.74	1631544.84	14547735.63	40°03'27.617"N	105°01'54.142"W	2.14	
5449.00	23.830	170.150	5129.47	-1637.13	-1637.17	273.31	1631551.40	14547700.45	40°03'27.269"N	105°01'54.057"W	1.08	
5538.00	22.850	169.140	5211.18	-1671.81	-1671.86	279.64	1631557.72	14547665.77	40°03'26.926"N	105°01'53.976"W	1.19	
5628.00	20.650	169.250	5294.77	-1704.57	-1704.62	285.90	1631563.96	14547633.03	40°03'26.603"N	105°01'53.895"W	2.44	
5717.00	17.670	167.840	5378.83	-1733.20	-1733.24	291.67	1631569.72	14547604.41	40°03'26.320"N	105°01'53.821"W	3.39	
5807.00	17.930	170.610	5464.53	-1760.22	-1760.26	296.81	1631574.84	14547577.40	40°03'26.053"N	105°01'53.755"W	0.98	
5896.00	16.410	170.420	5549.56	-1786.13	-1786.18	301.14	1631579.16	14547551.49	40°03'25.797"N	105°01'53.699"W	1.71	
5986.00	14.680	169.360	5636.26	-1809.88	-1809.92	305.36	1631583.37	14547527.75	40°03'25.562"N	105°01'53.645"W	1.95	
6076.00	12.580	168.560	5723.72	-1830.69	-1830.74	309.41	1631587.41	14547506.94	40°03'25.356"N	105°01'53.593"W	2.34	
6165.00	11.950	171.490	5810.69	-1849.30	-1849.35	312.69	1631590.69	14547488.34	40°03'25.172"N	105°01'53.551"W	0.99	
6255.00	10.350	169.620	5898.99	-1866.47	-1866.52	315.53	1631593.52	14547471.18	40°03'25.003"N	105°01'53.514"W	1.82	
6344.00	8.130	168.990	5986.83	-1880.51	-1880.56	318.17	1631596.15	14547457.14	40°03'24.864"N	105°01'53.480"W	2.50	
6434.00	6.920	169.050	6076.05	-1892.08	-1892.14	320.42	1631598.40	14547445.57	40°03'24.749"N	105°01'53.451"W	1.34	
6523.00	6.480	168.460	6164.44	-1902.27	-1902.32	322.44	1631600.41	14547435.39	40°03'24.649"N	105°01'53.425"W	0.50	
6613.00	4.870	167.120	6254.00	-1910.97	-1911.02	324.31	1631602.28	14547426.69	40°03'24.563"N	105°01'53.401"W	1.79	
6702.00	3.960	168.030	6342.74	-1917.66	-1917.71	325.79	1631603.75	14547420.00	40°03'24.497"N	105°01'53.382"W	1.03	
6791.00	2.920	171.360	6431.57	-1922.91	-1922.96	326.77	1631604.73	14547414.76	40°03'24.445"N	105°01'53.370"W	1.19	
6881.00	2.730	174.890	6521.46	-1927.31	-1927.36	327.30	1631605.26	14547410.36	40°03'24.401"N	105°01'53.363"W	0.29	
6970.00	2.340	174.210	6610.38	-1931.23	-1931.28	327.67	1631605.63	14547406.44	40°03'24.363"N	105°01'53.358"W	0.44	
7060.00	1.970	181.610	6700.31	-1934.60	-1934.65	327.81	1631605.77	14547403.07	40°03'24.329"N	105°01'53.356"W	0.51	
7150.00	1.870	177.210	6790.26	-1937.61	-1937.66	327.84	1631605.80	14547400.06	40°03'24.300"N	105°01'53.356"W	0.20	
7240.00	1.900	191.550	6880.22	-1940.54	-1940.59	327.62	1631605.57	14547397.13	40°03'24.271"N	105°01'53.359"W	0.52	
7329.00	1.480	194.220	6969.18	-1943.10	-1943.15	327.04	1631604.99	14547394.57	40°03'24.245"N	105°01'53.366"W	0.48	
7419.00	1.460	197.950	7059.15	-1945.32	-1945.37	326.40	1631604.35	14547392.36	40°03'24.223"N	105°01'53.374"W	0.11	
7420.00†	1.387	199.214	7060.15	-1945.34	-1945.39	326.39	1631604.35	14547392.33	40°03'24.223"N	105°01'53.375"W	7.99	KOP
7508.00	5.790	349.940	7148.02	-1941.97	-1942.02	325.26	1631603.22	14547395.70	40°03'24.256"N	105°01'53.389"W	7.99	
7598.00	13.560	355.780	7236.67	-1926.96	-1927.01	323.69	1631601.66	14547410.71	40°03'24.405"N	105°01'53.409"W	8.69	
7687.00	20.660	355.650	7321.68	-1900.86	-1900.91	321.73	1631599.70	14547436.79	40°03'24.663"N	105°01'53.434"W	7.98	
7777.00	27.450	358.030	7403.82	-1864.26	-1864.31	319.81	1631597.80	14547473.39	40°03'25.024"N	105°01'53.459"W	7.62	
7866.00	35.790	359.820	7479.54	-1817.65	-1817.70	319.02	1631597.03	14547519.98	40°03'25.485"N	105°01'53.469"W	9.43	
7956.00	40.490	358.660	7550.31	-1762.09	-1762.14	318.26	1631596.28	14547575.52	40°03'26.034"N	105°01'53.479"W	5.28	
8045.00	48.320	358.130	7613.84	-1699.89	-1699.94	316.49	1631594.54	14547637.69	40°03'26.649"N	105°01'53.502"W	8.81	
8135.00	53.690	359.260	7670.45	-1629.99	-1630.03	314.93	1631593.00	14547707.57	40°03'27.340"N	105°01'53.522"W	6.05	
8225.00	57.950	359.140	7721.00	-1555.56	-1555.60	313.89	1631591.99	14547781.97	40°03'28.075"N	105°01'53.535"W	4.73	
8314.00	64.330	359.240	7763.94	-1477.66	-1477.71	312.79	1631590.92	14547859.84	40°03'28.845"N	105°01'53.549"W	7.17	
8404.00	70.790	359.500	7798.27	-1394.52	-1394.57	311.88	1631590.04	14547942.94	40°03'29.667"N	105°01'53.561"W	7.18	
8493.00	76.260	0.880	7823.51	-1309.21	-1309.26	312.17	1631590.37	14548028.22	40°03'30.510"N	105°01'53.557"W	6.32	
8583.00	83.370	0.700	7839.41	-1220.69	-1220.74	313.39	1631591.62	14548116.70	40°03'31.384"N	105°01'53.542"W	7.90	
8640.00†	86.591	359.558	7844.44	-1163.92	-1163.97	313.52	1631591.77	14548173.45	40°03'31.945"N	105°01'53.540"W	5.99	LANDING (240'FSL & 1623'FWL,SEC.08) 40.0588737 -105.0315389
8672.00	88.400	358.920	7845.80	-1131.96	-1132.00	313.09	1631591.35	14548205.40	40°03'32.261"N	105°01'53.545"W	5.99	
8762.00	89.690	358.290	7847.30	-1042.00	-1042.05	310.90	1631589.20	14548295.32	40°03'33.150"N	105°01'53.574"W	1.60	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (192 stations) † = interpolated/extrapolated station												
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	DLS (°/100ft)	Comments
8801.00†	90.063	358.156	7847.38	-1003.02	-1003.07	309.69	1631588.00	14548334.29	40°03'33.535"N	105°01'53.589"W	1.02	EXIT RADIUS HEEL (401'FSL & 1618'FWL,SEC.08) 40.0593154 -105.0315525
8852.00	90.550	357.980	7847.11	-952.05	-952.10	307.98	1631586.30	14548385.24	40°03'34.039"N	105°01'53.611"W	1.02	
8941.00	89.690	358.120	7846.92	-863.10	-863.15	304.95	1631583.31	14548474.15	40°03'34.918"N	105°01'53.650"W	0.98	
9031.00	89.170	359.610	7847.82	-773.13	-773.17	303.16	1631581.56	14548564.09	40°03'35.807"N	105°01'53.673"W	1.75	
9120.00	89.510	0.670	7848.84	-684.13	-684.18	303.38	1631581.81	14548653.05	40°03'36.687"N	105°01'53.670"W	1.25	
9210.00	90.150	0.310	7849.11	-594.14	-594.18	304.15	1631582.61	14548743.01	40°03'37.576"N	105°01'53.660"W	0.82	
9299.00	90.490	0.080	7848.61	-505.14	-505.19	304.45	1631582.95	14548831.97	40°03'38.456"N	105°01'53.656"W	0.46	
9389.00	91.540	359.820	7847.02	-415.15	-415.20	304.38	1631582.90	14548921.92	40°03'39.345"N	105°01'53.657"W	1.20	
9478.00	90.000	359.970	7845.82	-326.17	-326.21	304.21	1631582.77	14549010.87	40°03'40.224"N	105°01'53.659"W	1.74	
9567.00	89.850	359.010	7845.94	-237.17	-237.22	303.42	1631582.01	14549099.83	40°03'41.104"N	105°01'53.670"W	1.09	
9657.00	90.620	358.400	7845.57	-147.20	-147.24	301.39	1631580.01	14549189.77	40°03'41.993"N	105°01'53.696"W	1.09	
9747.00	89.410	359.670	7845.54	-57.21	-57.26	299.87	1631578.53	14549279.72	40°03'42.882"N	105°01'53.715"W	1.95	
9836.00	90.150	359.190	7845.89	31.78	31.74	298.99	1631577.68	14549368.68	40°03'43.762"N	105°01'53.727"W	0.99	
10015.00	89.350	0.090	7846.67	210.77	210.73	297.86	1631576.62	14549547.60	40°03'45.530"N	105°01'53.741"W	0.67	
10105.00	90.180	359.200	7847.04	300.77	300.72	297.30	1631576.09	14549637.56	40°03'46.420"N	105°01'53.748"W	1.35	
10195.00	89.720	0.560	7847.12	390.77	390.72	297.11	1631575.94	14549727.52	40°03'47.309"N	105°01'53.751"W	1.60	
10284.00	90.800	0.460	7846.71	479.76	479.71	297.91	1631576.76	14549816.47	40°03'48.189"N	105°01'53.740"W	1.22	
10374.00	89.380	1.140	7846.57	569.75	569.70	299.16	1631578.05	14549906.43	40°03'49.078"N	105°01'53.724"W	1.75	
10463.00	89.540	0.480	7847.41	658.74	658.69	300.42	1631579.34	14549995.38	40°03'49.957"N	105°01'53.708"W	0.76	
10553.00	89.750	359.710	7847.97	748.73	748.69	300.57	1631579.52	14550085.34	40°03'50.847"N	105°01'53.706"W	0.89	
10643.00	90.430	359.100	7847.82	838.73	838.68	299.64	1631578.62	14550175.30	40°03'51.736"N	105°01'53.718"W	1.02	
10732.00	89.780	1.220	7847.66	927.72	927.67	299.88	1631578.90	14550264.25	40°03'52.615"N	105°01'53.715"W	2.49	
10822.00	90.740	1.450	7847.25	1017.70	1017.65	301.98	1631581.03	14550354.19	40°03'53.505"N	105°01'53.688"W	1.10	
10911.00	92.000	1.500	7845.13	1106.64	1106.59	304.27	1631583.36	14550443.10	40°03'54.384"N	105°01'53.659"W	1.42	
11001.00	88.980	0.990	7844.36	1196.60	1196.56	306.23	1631585.34	14550533.03	40°03'55.273"N	105°01'53.633"W	3.40	
11090.00	88.920	0.340	7845.99	1285.58	1285.53	307.26	1631586.41	14550621.97	40°03'56.152"N	105°01'53.620"W	0.73	
11180.00	89.350	359.160	7847.35	1375.57	1375.52	306.87	1631586.05	14550711.92	40°03'57.041"N	105°01'53.625"W	1.40	
11269.00	89.570	0.600	7848.18	1464.56	1464.52	306.68	1631585.89	14550800.88	40°03'57.921"N	105°01'53.627"W	1.64	
11359.00	89.970	0.280	7848.55	1554.56	1554.51	307.37	1631586.62	14550890.84	40°03'58.810"N	105°01'53.619"W	0.57	
11449.00	91.080	0.050	7847.72	1644.55	1644.51	307.63	1631586.91	14550980.79	40°03'59.699"N	105°01'53.615"W	1.26	
11538.00	89.660	2.030	7847.15	1733.53	1733.48	309.25	1631588.56	14551069.74	40°04'00.579"N	105°01'53.594"W	2.74	
11628.00	90.150	2.070	7847.30	1823.47	1823.42	312.47	1631591.81	14551159.64	40°04'01.467"N	105°01'53.553"W	0.55	
11717.00	90.950	2.210	7846.44	1912.41	1912.36	315.79	1631595.16	14551248.54	40°04'02.346"N	105°01'53.510"W	0.91	
11807.00	89.820	1.310	7845.84	2002.36	2002.31	318.55	1631597.96	14551338.45	40°04'03.235"N	105°01'53.475"W	1.61	
11897.00	90.220	0.980	7845.81	2092.34	2092.29	320.35	1631599.79	14551428.40	40°04'04.124"N	105°01'53.452"W	0.58	
11986.00	89.080	0.250	7846.35	2181.33	2181.28	321.31	1631600.78	14551517.35	40°04'05.004"N	105°01'53.439"W	1.52	
12076.00	90.180	0.870	7846.93	2271.33	2271.28	322.19	1631601.69	14551607.31	40°04'05.893"N	105°01'53.428"W	1.40	
12165.00	91.290	0.780	7845.79	2360.31	2360.26	323.47	1631603.00	14551696.25	40°04'06.773"N	105°01'53.411"W	1.25	
12255.00	90.060	0.270	7844.73	2450.30	2450.25	324.29	1631603.86	14551786.20	40°04'07.662"N	105°01'53.401"W	1.48	
12345.00	88.270	359.640	7846.04	2540.28	2540.23	324.22	1631603.82	14551876.15	40°04'08.551"N	105°01'53.402"W	2.11	
12434.00	88.980	359.090	7848.18	2629.25	2629.20	323.24	1631602.87	14551965.09	40°04'09.430"N	105°01'53.414"W	1.01	
12524.00	89.140	358.290	7849.65	2719.21	2719.16	321.18	1631600.85	14552055.02	40°04'10.319"N	105°01'53.441"W	0.91	
12613.00	89.410	358.920	7850.78	2808.18	2808.13	319.01	1631598.71	14552143.95	40°04'11.199"N	105°01'53.469"W	0.77	
12703.00	91.660	359.790	7849.94	2898.16	2898.11	318.00	1631597.73	14552233.89	40°04'12.088"N	105°01'53.482"W	2.68	
12792.00	91.690	0.660	7847.34	2987.12	2987.07	318.35	1631598.12	14552322.82	40°04'12.967"N	105°01'53.477"W	0.98	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (192 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12882.00	90.280	0.460	7845.79	8077.10	8077.05	319.23	1631599.03	14552412.76	40°04'13.856"N	105°01'53.466"W	1.58	
12971.00	91.110	0.540	7844.71	8166.09	8166.04	320.00	1631599.84	14552501.72	40°04'14.735"N	105°01'53.456"W	0.94	
13061.00	89.200	359.270	7844.47	8256.09	8256.04	319.85	1631599.72	14552591.67	40°04'15.625"N	105°01'53.458"W	2.55	
13150.00	90.490	359.350	7844.71	8345.08	8345.03	318.78	1631598.68	14552680.63	40°04'16.504"N	105°01'53.471"W	1.45	
13240.00	90.990	359.090	7843.54	8435.06	8435.01	317.56	1631597.49	14552770.58	40°04'17.393"N	105°01'53.487"W	0.63	
13330.00	89.690	359.540	7843.01	8525.05	8525.00	316.48	1631596.45	14552860.53	40°04'18.283"N	105°01'53.501"W	1.53	
13405.00†	87.642	359.034	7844.76	8600.02	8599.97	315.55	1631595.54	14552935.47	40°04'19.024"N	105°01'53.513"W	2.81	ENTER RADIUS TOE (384'FNL & 1633'FWL,SEC.08) 40.0719510 -105.0315314
13419.00	87.260	358.940	7845.38	8614.00	8613.96	315.30	1631595.30	14552949.45	40°04'19.162"N	105°01'53.516"W	2.81	
13509.00	88.090	358.380	7849.03	8703.90	8703.86	313.20	1631593.23	14553039.31	40°04'20.050"N	105°01'53.543"W	1.11	
13598.00	88.830	358.160	7851.42	8792.83	8792.78	310.51	1631590.58	14553128.21	40°04'20.929"N	105°01'53.578"W	0.87	
13688.00	90.120	358.340	7852.25	8882.78	8882.73	307.76	1631587.87	14553218.12	40°04'21.818"N	105°01'53.613"W	1.45	LAST BHGE MWD+IFR1+SC SURVEY
13737.00	90.120	358.340	7852.14	8931.76	8931.71	306.35	1631586.46	14553267.08	40°04'22.302"N	105°01'53.631"W	0.00	PTB (52'FNL & 1624'FWL,SEC.08) 40.0728617 -105.0315643

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.08-T1N-R68W	-2.00	0.81	-104.97	1631173.88	14549337.91	40°03'43.456"N	105°01'58.922"W	polygon
PAPA JO 2-25 29C-8HZ BHL REV-1(50'FNL & 1635'FWL,SEC.08)	7837.00	3933.66	316.78	1631596.89	14553269.02	40°04'22.321"N	105°01'53.497"W	point
PAPA JO 2-25 29C-8HZ HEEL REV-1(200'FSL & 1566'FWL,SEC.08)	7844.00	-1199.93	316.00	1631594.24	14548137.50	40°03'31.590"N	105°01'53.508"W	point
PAPA JO 2-25 29C-8HZ LANDBOX	7844.00	0.00	0.00	1631278.80	14549337.06	40°03'43.448"N	105°01'57.572"W	polygon
PAPA JO 2-25 29C-8HZ RADIUS 1	7844.00	3983.36	59.66	1631339.90	14553318.80	40°04'22.812"N	105°01'56.805"W	polygon
PAPA JO 2-25 29C-8HZ RADIUS 2	7844.00	-1402.60	82.55	1631360.80	14547935.00	40°03'29.587"N	105°01'56.510"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: PAPA JO 2-25 29C-8HZ AWB				Ref Wellpath: PAPA JO 2-25 29C-8HZ AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore
26.00	1839.00	Custom APC ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC ISCWSA Rev-2 MWD+IFR1 <137 - 1839>		PAPA JO 2-25 29C-8HZ AWB
1839.00	13688.00	Custom APC ISCWSA REV 2 MWD+IFR1+SC (approximation)	BHGE Custom APC ISCWSA Rev-2 MWD+IFR1+SC <1933 - 13688>		PAPA JO 2-25 29C-8HZ AWB
13688.00	13737.00	Blind Drilling (std)	Projection to bit		PAPA JO 2-25 29C-8HZ AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#14 PAPA JO 2-25 29C-8HZ(1404'FSL & 1309'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29C-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29C-8HZ AWP
Facility	SEC.08-T1N-R68W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
137.00	0.700	34.470	137.00	FIRST SURFACE MWD+IFR1 SURVEY
1839.00	18.280	167.450	1805.86	LAST SURFACE MWD+IFR1 SURVEY
1933.00	18.050	166.780	1895.18	FIRST BHGE MWD+IFR1+SC SURVEY
7420.00	1.387	199.214	7060.15	KOP
8640.00	86.591	359.558	7844.40	LANDING (240'FSL & 1623'FWL,SEC.08) 40.0588737 -105.0315389
8801.00	90.063	358.156	7847.38	EXIT RADIUS HEEL (401'FSL & 1618'FWL,SEC.08) 40.0593154 -105.0315525
13405.00	87.642	359.034	7844.76	ENTER RADIUS TOE (384'FNL & 1633'FWL,SEC.08) 40.0719510 -105.0315314
13688.00	90.120	358.340	7852.25	LAST BHGE MWD+IFR1+SC SURVEY
13737.00	90.120	358.340	7852.14	PTB (52'FNL & 1624'FWL,SEC.08) 40.0728617 -105.0315643