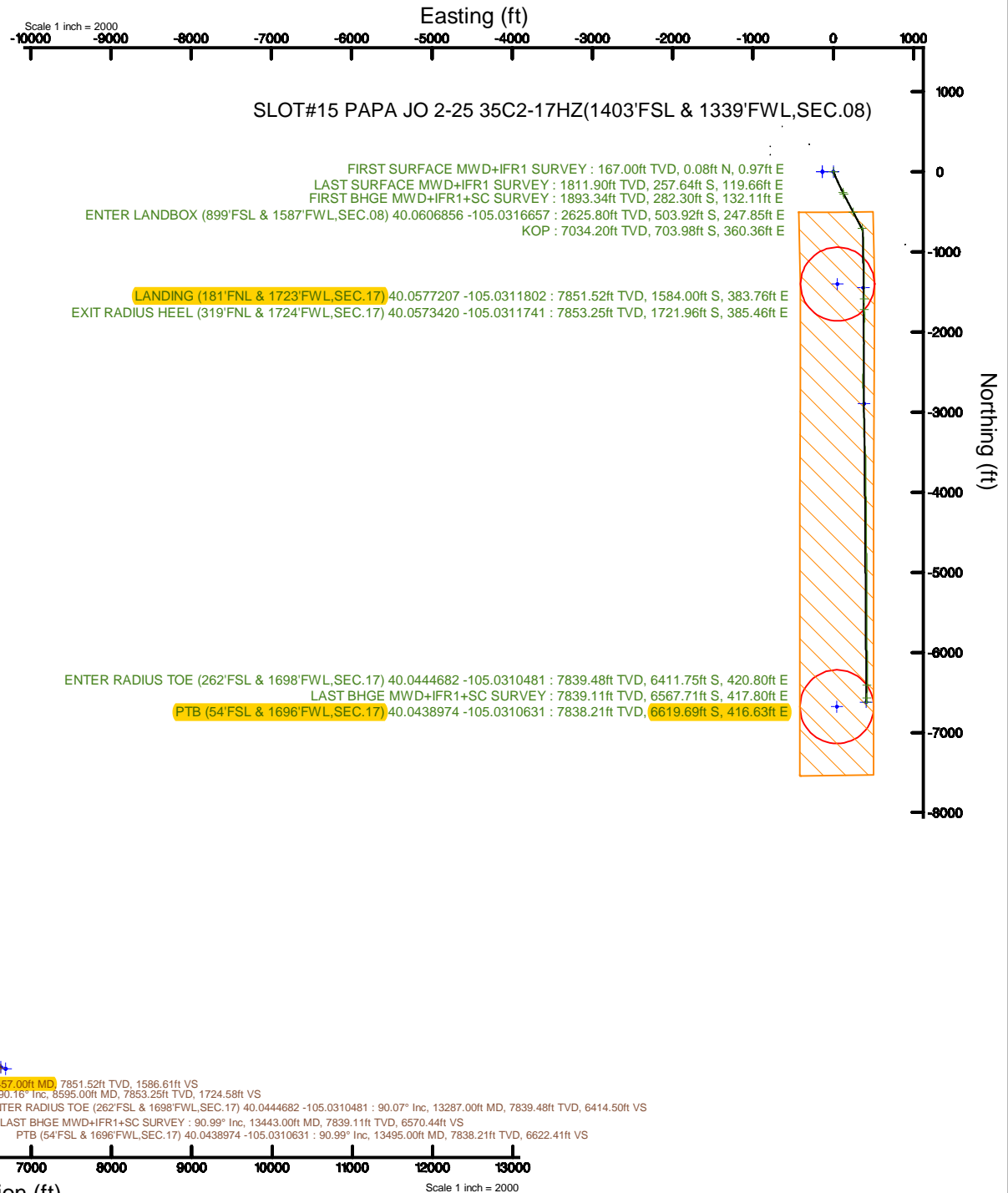


Location:	COLORADO	Spot:	SLOT#15 PAPA JO 2-25 35CZ-17HZ(1403FSL & 1339FWLSEC.08)
Field:	WELD COUNTY (UTM/TRUE NORTH)	Well:	PAPA JO 2-25 35CZ-17HZ
Facility:	SEC.08-T1N-R68W	Wellbore:	PAPA JO 2-25 35CZ-17HZ PWB
Plot reference wellpath is PAPA JO 2-25 35CZ-17HZ PPWP Rev.0			
True vertical depths are referenced to PD 564 (26) (RT)			
Measured depths are referenced to PD 564 (26) (RT)			
PD 564 (26) (RT) to Mean Sea Level: 5089 feet			
Mean Sea Level to Mud line (At Slot: SLOT#15 PAPA JO 2-25 35CZ-17HZ(1403FSL & 1339FWLSEC.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: painsear on 2018-01-24	
		Database: WA_DEN_Anadarko_Defn	



SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 35C2-17HZ 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	1/24/2018 at 3:13 PM
Convergence at slot	0.03° West	Database/Source file	WA_DEN_Anadarko_Defn/PAPA_JO_2-25_35C2-17HZ_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	-898.82	1631308.96	14549337.05	40°03'43.448"N	105°01'57.184"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#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'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	179.60°

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 35C2-17HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (190 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	85.360	0.00	0.00	0.00	0.00	1631308.96	14549337.05	40°03'43.448°N	105°01'57.184°W	0.00	
26.00	0.000	85.360	26.00	0.00	0.00	0.00	1631308.96	14549337.05	40°03'43.448°N	105°01'57.184°W	0.00	
167.00	0.790	85.360	167.00	-0.07	0.08	0.97	1631309.92	14549337.13	40°03'43.449°N	105°01'57.172°W	0.56	FIRST SURFACE MWD+IFR1 SURVEY
198.00	0.660	95.030	197.99	-0.07	0.08	1.36	1631310.32	14549337.13	40°03'43.449°N	105°01'57.167°W	0.57	
230.00	0.530	151.540	229.99	0.08	-0.07	1.61	1631310.57	14549336.99	40°03'43.447°N	105°01'57.163°W	1.80	
261.00	0.660	179.050	260.99	0.38	-0.37	1.69	1631310.64	14549336.68	40°03'43.444°N	105°01'57.162°W	1.00	
293.00	0.830	195.930	292.99	0.79	-0.78	1.62	1631310.58	14549336.27	40°03'43.440°N	105°01'57.163°W	0.86	
324.00	0.920	198.830	323.98	1.24	-1.23	1.48	1631310.44	14549335.82	40°03'43.436°N	105°01'57.165°W	0.32	
356.00	1.230	198.040	355.98	1.81	-1.80	1.29	1631310.25	14549335.25	40°03'43.430°N	105°01'57.167°W	0.97	
387.00	1.100	184.590	386.97	2.42	-2.41	1.17	1631310.12	14549334.64	40°03'43.424°N	105°01'57.169°W	0.97	
419.00	1.540	168.680	418.96	3.15	-3.14	1.23	1631310.18	14549333.91	40°03'43.417°N	105°01'57.168°W	1.78	
451.00	1.580	148.290	450.95	3.95	-3.94	1.54	1631310.50	14549333.12	40°03'43.409°N	105°01'57.164°W	1.73	
482.00	1.630	153.830	481.94	4.71	-4.70	1.96	1631310.92	14549332.36	40°03'43.402°N	105°01'57.159°W	0.53	
514.00	1.890	140.380	513.92	5.53	-5.51	2.50	1631311.45	14549331.54	40°03'43.394°N	105°01'57.152°W	1.52	
545.00	1.980	145.650	544.91	6.37	-6.35	3.13	1631312.08	14549330.71	40°03'43.385°N	105°01'57.144°W	0.64	
577.00	2.500	139.150	576.88	7.36	-7.33	3.90	1631312.85	14549329.72	40°03'43.376°N	105°01'57.134°W	1.81	
609.00	2.500	144.860	608.85	8.46	-8.43	4.75	1631313.70	14549328.62	40°03'43.365°N	105°01'57.123°W	0.78	
641.00	2.900	149.520	640.82	9.74	-9.70	5.57	1631314.52	14549327.36	40°03'43.352°N	105°01'57.112°W	1.42	
673.00	3.120	156.640	672.77	11.24	-11.20	6.32	1631315.27	14549325.86	40°03'43.337°N	105°01'57.103°W	1.35	
704.00	3.520	154.440	703.72	12.88	-12.83	7.07	1631316.02	14549324.23	40°03'43.321°N	105°01'57.093°W	1.35	
736.00	4.220	156.110	735.65	14.85	-14.79	7.97	1631316.92	14549322.26	40°03'43.302°N	105°01'57.082°W	2.22	
768.00	5.540	157.250	767.53	17.35	-17.29	9.04	1631317.99	14549319.76	40°03'43.277°N	105°01'57.068°W	4.14	
800.00	6.590	155.850	799.35	20.46	-20.39	10.39	1631319.34	14549316.66	40°03'43.246°N	105°01'57.050°W	3.31	
832.00	7.470	154.880	831.11	24.03	-23.95	12.02	1631320.97	14549313.11	40°03'43.211°N	105°01'57.029°W	2.77	
863.00	8.220	156.020	861.82	27.89	-27.80	13.78	1631322.72	14549309.26	40°03'43.173°N	105°01'57.007°W	2.47	
895.00	8.480	157.960	893.48	32.18	-32.08	15.60	1631324.53	14549304.98	40°03'43.131°N	105°01'56.983°W	1.20	
927.00	8.790	157.520	925.12	36.64	-36.52	17.42	1631326.35	14549300.54	40°03'43.087°N	105°01'56.960°W	0.99	
958.00	9.450	156.990	955.73	41.19	-41.05	19.32	1631328.25	14549296.01	40°03'43.042°N	105°01'56.936°W	2.15	
990.00	10.110	158.660	987.26	46.24	-46.09	21.37	1631330.30	14549290.97	40°03'42.993°N	105°01'56.909°W	2.24	
1022.00	10.590	160.150	1018.74	51.63	-51.47	23.39	1631332.31	14549285.59	40°03'42.939°N	105°01'56.883°W	1.72	
1054.00	10.810	160.510	1050.18	57.24	-57.07	25.39	1631334.31	14549280.00	40°03'42.884°N	105°01'56.858°W	0.72	
1085.00	11.120	157.870	1080.62	62.76	-62.58	27.48	1631336.40	14549274.49	40°03'42.830°N	105°01'56.831°W	1.90	
1117.00	11.600	154.790	1111.99	68.55	-68.34	30.01	1631338.93	14549268.72	40°03'42.773°N	105°01'56.798°W	2.42	
1149.00	12.740	155.580	1143.27	74.69	-74.47	32.84	1631341.76	14549262.60	40°03'42.712°N	105°01'56.762°W	3.60	
1180.00	13.450	154.180	1173.46	81.07	-80.83	35.83	1631344.74	14549256.25	40°03'42.649°N	105°01'56.723°W	2.51	
1212.00	13.890	154.440	1204.56	87.91	-87.64	39.11	1631348.01	14549249.43	40°03'42.582°N	105°01'56.681°W	1.39	
1244.00	14.550	156.110	1235.58	95.07	-94.78	42.39	1631351.30	14549242.29	40°03'42.511°N	105°01'56.639°W	2.43	
1276.00	15.470	156.730	1266.49	102.69	-102.38	45.70	1631354.61	14549234.70	40°03'42.436°N	105°01'56.596°W	2.92	
1308.00	15.820	157.340	1297.30	110.66	-110.32	49.07	1631357.97	14549226.75	40°03'42.358°N	105°01'56.553°W	1.21	
1339.00	15.910	157.430	1327.12	118.50	-118.15	52.33	1631361.22	14549218.93	40°03'42.280°N	105°01'56.511°W	0.30	
1371.00	16.260	155.760	1357.87	126.66	-126.28	55.85	1631364.74	14549210.80	40°03'42.200°N	105°01'56.466°W	1.81	
1403.00	16.520	156.640	1388.57	134.95	-134.54	59.50	1631368.38	14549202.54	40°03'42.118°N	105°01'56.419°W	1.12	
1435.00	16.700	156.110	1419.23	143.36	-142.92	63.16	1631372.04	14549194.16	40°03'42.036°N	105°01'56.372°W	0.74	
1466.00	16.920	155.500	1448.91	151.56	-151.10	66.84	1631375.71	14549185.99	40°03'41.955°N	105°01'56.324°W	0.91	
1498.00	16.920	154.440	1479.52	160.02	-159.54	70.78	1631379.65	14549177.55	40°03'41.871°N	105°01'56.274°W	0.96	

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)		Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO		Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)		Wellbore	PAPA JO 2-25 35C2-17HZ AWP
Facility	SEC.08-T1N-R68W			

WELLPATH DATA (190 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
1529.00	17.270	153.910	1509.15	168.25	-167.74	74.75	1631383.61	14549169.35	40°03'41.790"N	105°01'56.223"W	1.24	
1561.00	18.110	154.620	1539.64	177.04	-176.50	78.97	1631387.83	14549160.59	40°03'41.704"N	105°01'56.168"W	2.71	
1593.00	18.240	154.790	1570.04	186.10	-185.53	83.23	1631392.09	14549151.57	40°03'41.615"N	105°01'56.114"W	0.44	
1625.00	18.240	153.480	1600.43	195.14	-194.54	87.60	1631396.45	14549142.56	40°03'41.526"N	105°01'56.057"W	1.28	
1656.00	18.150	153.210	1629.88	203.82	-203.19	91.94	1631400.79	14549133.91	40°03'41.440"N	105°01'56.001"W	0.40	
1688.00	17.930	152.510	1660.31	212.67	-212.01	96.46	1631405.30	14549125.09	40°03'41.353"N	105°01'55.943"W	0.97	
1752.00	18.900	152.770	1721.03	230.69	-229.96	105.75	1631414.58	14549107.14	40°03'41.175"N	105°01'55.824"W	1.52	
1783.00	18.810	153.120	1750.37	239.64	-238.89	110.31	1631419.14	14549098.22	40°03'41.087"N	105°01'55.765"W	0.47	
1815.00	18.810	153.740	1780.66	248.90	-248.11	114.93	1631423.75	14549089.00	40°03'40.996"N	105°01'55.706"W	0.62	
1848.00	18.810	153.390	1811.90	258.46	-257.64	119.66	1631428.48	14549079.47	40°03'40.902"N	105°01'55.645"W	0.34	LAST SURFACE MWD+IFR1 SURVEY
1934.00	18.660	153.050	1893.34	283.21	-282.30	132.11	1631440.91	14549054.82	40°03'40.658"N	105°01'55.485"W	0.22	FIRST BHGE MWD+IFR1+SC SURVEY
2024.00	18.120	152.430	1978.74	308.53	-307.54	145.11	1631453.90	14549029.58	40°03'40.409"N	105°01'55.318"W	0.64	
2113.00	18.780	150.760	2063.17	333.40	-332.31	158.51	1631467.29	14549004.82	40°03'40.164"N	105°01'55.145"W	0.95	
2202.00	19.540	154.110	2147.24	359.38	-358.20	172.01	1631480.77	14548978.93	40°03'39.908"N	105°01'54.972"W	1.50	
2292.00	19.240	153.920	2232.14	386.33	-385.06	185.10	1631493.84	14548952.08	40°03'39.643"N	105°01'54.803"W	0.34	
2382.00	18.420	152.720	2317.32	412.38	-411.02	198.14	1631506.87	14548926.13	40°03'39.386"N	105°01'54.636"W	1.01	
2471.00	17.910	152.260	2401.88	437.07	-435.63	210.95	1631519.67	14548901.52	40°03'39.143"N	105°01'54.471"W	0.60	
2561.00	19.770	151.740	2487.06	462.82	-461.29	224.60	1631533.30	14548875.87	40°03'38.889"N	105°01'54.295"W	2.08	
2650.00	19.330	151.530	2570.93	489.13	-487.49	238.75	1631547.43	14548849.67	40°03'38.630"N	105°01'54.113"W	0.50	
2708.00†	18.452	150.494	2625.80	505.62	-503.92	247.85	1631556.52	14548833.24	40°03'38.468"N	105°01'53.996"W	1.62	ENTER LANDBOX (899'FSL & 1587'FWL,SEC.08) 40.0606856 -105.0316657
2740.00	17.970	149.880	2656.20	514.33	-512.60	252.82	1631561.49	14548824.57	40°03'38.382"N	105°01'53.932"W	1.62	
2830.00	19.330	152.660	2741.47	539.66	-537.84	266.63	1631575.28	14548799.33	40°03'38.133"N	105°01'53.755"W	1.80	
2919.00	18.860	153.120	2825.58	565.67	-563.75	279.90	1631588.54	14548773.42	40°03'37.877"N	105°01'53.584"W	0.55	
3009.00	17.400	152.490	2911.11	590.67	-588.67	292.69	1631601.31	14548748.52	40°03'37.631"N	105°01'53.420"W	1.64	
3098.00	15.930	152.500	2996.37	613.39	-611.30	304.48	1631613.09	14548725.88	40°03'37.407"N	105°01'53.268"W	1.65	
3188.00	14.330	152.190	3083.24	634.27	-632.11	315.38	1631623.98	14548705.08	40°03'37.201"N	105°01'53.128"W	1.78	
3277.00	13.210	153.190	3169.68	653.15	-650.93	325.10	1631633.69	14548686.27	40°03'37.015"N	105°01'53.003"W	1.29	
3367.00	12.020	154.300	3257.51	670.84	-668.55	333.81	1631642.38	14548668.65	40°03'36.841"N	105°01'52.891"W	1.35	
3456.00	9.530	151.910	3344.93	685.74	-683.40	341.30	1631649.86	14548653.80	40°03'36.694"N	105°01'52.795"W	2.84	
3546.00	8.110	153.160	3433.87	698.02	-695.64	347.67	1631656.23	14548641.56	40°03'36.573"N	105°01'52.713"W	1.59	
3636.00	6.370	152.390	3523.15	708.15	-705.73	352.85	1631661.41	14548631.47	40°03'36.474"N	105°01'52.646"W	1.94	
3725.00	5.270	154.110	3611.69	716.23	-713.78	356.92	1631665.48	14548623.42	40°03'36.394"N	105°01'52.594"W	1.25	
3815.00	2.600	148.680	3701.47	721.71	-719.25	359.79	1631668.34	14548617.96	40°03'36.340"N	105°01'52.557"W	2.99	
3904.00	0.900	157.770	3790.42	724.09	-721.62	361.10	1631669.65	14548615.59	40°03'36.317"N	105°01'52.540"W	1.93	
3994.00	0.740	188.840	3880.41	725.32	-722.85	361.28	1631669.83	14548614.36	40°03'36.305"N	105°01'52.538"W	0.52	
4083.00	0.750	214.710	3969.41	726.37	-723.89	360.86	1631669.41	14548613.32	40°03'36.294"N	105°01'52.543"W	0.37	
4173.00	0.910	223.280	4059.40	727.36	-724.90	360.04	1631668.58	14548612.31	40°03'36.284"N	105°01'52.554"W	0.22	
4263.00	0.220	14.140	4149.39	727.71	-725.25	359.59	1631668.14	14548611.96	40°03'36.281"N	105°01'52.559"W	1.23	
4352.00	0.230	48.010	4238.39	727.43	-724.97	359.76	1631668.31	14548612.25	40°03'36.284"N	105°01'52.557"W	0.15	
4441.00	0.250	48.010	4327.39	727.18	-724.72	360.04	1631668.59	14548612.49	40°03'36.286"N	105°01'52.554"W	0.02	
4531.00	0.310	7.630	4417.39	726.81	-724.34	360.22	1631668.77	14548612.87	40°03'36.290"N	105°01'52.551"W	0.22	
4620.00	0.350	358.920	4506.39	726.30	-723.83	360.25	1631668.79	14548613.38	40°03'36.295"N	105°01'52.551"W	0.07	
4710.00	0.410	346.420	4596.39	725.71	-723.25	360.16	1631668.71	14548613.96	40°03'36.301"N	105°01'52.552"W	0.11	
4825.00	0.370	349.630	4711.39	724.95	-722.48	360.00	1631668.55	14548614.73	40°03'36.308"N	105°01'52.554"W	0.04	
4914.00	0.430	352.970	4800.38	724.33	-721.87	359.91	1631668.46	14548615.34	40°03'36.314"N	105°01'52.555"W	0.07	

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)			Slot
Area	COLORADO			Well
Field	WELD COUNTY (UTM/TRUE NORTH)			Wellbore
Facility	SEC.08-T1N-R68W			PAPA JO 2-25 35C2-17HZ (1403'FSL & 1339'FWL, SEC.08)
				PAPA JO 2-25 35C2-17HZ
				PAPA JO 2-25 35C2-17HZ AWP

WELLPATH DATA (190 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
5003.00	0.490	305.080	4889.38	723.78	-721.32	359.56	1631668.10	14548615.89	40°03'36.320"N	105°01'52.560"W	0.42	
5093.00	0.630	310.070	4979.38	723.23	-720.78	358.86	1631667.41	14548616.43	40°03'36.325"N	105°01'52.569"W	0.16	
5182.00	0.650	321.320	5068.37	722.52	-720.07	358.17	1631666.72	14548617.14	40°03'36.332"N	105°01'52.578"W	0.14	
5271.00	0.500	318.760	5157.37	721.83	-719.38	357.60	1631666.15	14548617.83	40°03'36.339"N	105°01'52.585"W	0.17	
5361.00	0.440	309.780	5247.36	721.31	-718.87	357.08	1631665.63	14548618.34	40°03'36.344"N	105°01'52.592"W	0.11	
5450.00	0.510	311.200	5336.36	720.83	-718.39	356.52	1631665.07	14548618.82	40°03'36.349"N	105°01'52.599"W	0.08	
5540.00	0.590	299.400	5426.36	720.33	-717.89	355.81	1631664.36	14548619.32	40°03'36.354"N	105°01'52.608"W	0.15	
5630.00	0.680	24.570	5516.35	719.62	-717.18	355.63	1631664.18	14548620.03	40°03'36.361"N	105°01'52.610"W	0.96	
5719.00	0.570	14.060	5605.35	718.71	-716.27	355.96	1631664.51	14548620.94	40°03'36.370"N	105°01'52.606"W	0.18	
5808.00	0.880	326.480	5694.34	717.71	-715.27	355.69	1631664.24	14548621.94	40°03'36.379"N	105°01'52.610"W	0.73	
5898.00	0.920	1.730	5784.33	716.41	-713.97	355.33	1631663.88	14548623.23	40°03'36.392"N	105°01'52.614"W	0.61	
5988.00	0.980	356.100	5874.32	714.92	-712.48	355.30	1631663.85	14548624.72	40°03'36.407"N	105°01'52.615"W	0.12	
6077.00	0.750	341.550	5963.31	713.60	-711.17	355.06	1631663.61	14548626.04	40°03'36.420"N	105°01'52.618"W	0.36	
6167.00	0.710	351.820	6053.30	712.49	-710.06	354.79	1631663.35	14548627.15	40°03'36.431"N	105°01'52.621"W	0.15	
6256.00	0.830	355.930	6142.29	711.30	-708.87	354.67	1631663.22	14548628.33	40°03'36.443"N	105°01'52.623"W	0.15	
6346.00	0.840	358.530	6232.28	709.99	-707.56	354.61	1631663.16	14548629.64	40°03'36.456"N	105°01'52.623"W	0.04	
6435.00	0.890	4.060	6321.27	708.65	-706.22	354.64	1631663.19	14548630.98	40°03'36.469"N	105°01'52.623"W	0.11	
6525.00	0.790	14.120	6411.26	707.35	-704.92	354.84	1631663.40	14548632.28	40°03'36.482"N	105°01'52.620"W	0.20	
6614.00	0.540	12.870	6500.26	706.35	-703.92	355.08	1631663.64	14548633.29	40°03'36.492"N	105°01'52.617"W	0.28	
6704.00	0.590	25.430	6590.25	705.52	-703.09	355.38	1631663.93	14548634.12	40°03'36.500"N	105°01'52.614"W	0.15	
6793.00	0.520	53.350	6679.25	704.87	-702.43	355.90	1631664.45	14548634.77	40°03'36.506"N	105°01'52.607"W	0.31	
6882.00	0.530	80.060	6768.24	704.56	-702.12	356.63	1631665.18	14548635.08	40°03'36.509"N	105°01'52.597"W	0.27	
6972.00	0.700	100.590	6858.24	704.60	-702.15	357.58	1631666.13	14548635.05	40°03'36.509"N	105°01'52.585"W	0.31	
7062.00	0.940	114.230	6948.23	705.01	-702.55	358.79	1631667.35	14548634.65	40°03'36.505"N	105°01'52.570"W	0.34	
7148.00†	1.961	140.869	7034.20	706.45	-703.98	360.36	1631668.92	14548633.22	40°03'36.491"N	105°01'52.549"W	1.39	KOP
7151.00	2.000	141.290	7037.20	706.53	-704.06	360.43	1631668.98	14548633.14	40°03'36.490"N	105°01'52.549"W	1.39	
7241.00	10.510	173.410	7126.60	715.94	-713.46	362.36	1631670.91	14548623.74	40°03'36.397"N	105°01'52.524"W	9.87	
7331.00	21.380	174.100	7213.01	740.51	-738.01	364.99	1631673.53	14548599.21	40°03'36.155"N	105°01'52.490"W	12.08	
7420.00	25.050	175.090	7294.79	775.45	-772.93	368.27	1631676.80	14548564.30	40°03'35.810"N	105°01'52.448"W	4.15	
7510.00	30.110	174.570	7374.53	816.96	-814.41	372.04	1631680.55	14548522.83	40°03'35.400"N	105°01'52.399"W	5.63	
7599.00	34.930	176.870	7449.56	864.68	-862.11	375.55	1631684.04	14548475.15	40°03'34.928"N	105°01'52.354"W	5.59	
7688.00	39.570	178.680	7520.39	918.50	-915.92	377.59	1631686.06	14548421.36	40°03'34.397"N	105°01'52.328"W	5.36	
7778.00	44.340	179.840	7587.30	978.65	-976.07	378.34	1631686.79	14548361.24	40°03'33.802"N	105°01'52.318"W	5.37	
7868.00	50.170	179.260	7648.36	1044.72	-1042.13	378.88	1631687.30	14548295.20	40°03'33.149"N	105°01'52.311"W	6.49	
7957.00	54.190	179.510	7702.92	1115.01	-1112.42	379.63	1631688.02	14548224.94	40°03'32.455"N	105°01'52.302"W	4.52	
8047.00	61.760	179.700	7750.61	1191.25	-1188.66	380.15	1631688.52	14548148.73	40°03'31.701"N	105°01'52.295"W	8.41	
8137.00	72.970	179.320	7785.19	1274.19	-1271.59	380.87	1631689.21	14548065.83	40°03'30.882"N	105°01'52.286"W	12.46	
8226.00	76.080	179.430	7808.94	1359.95	-1357.35	381.80	1631690.11	14547980.11	40°03'30.034"N	105°01'52.274"W	3.50	
8316.00	76.590	179.770	7830.20	1447.40	-1444.80	382.41	1631690.69	14547892.69	40°03'29.170"N	105°01'52.266"W	0.68	
8405.00	82.370	179.270	7846.44	1534.87	-1532.27	383.15	1631691.39	14547805.26	40°03'28.306"N	105°01'52.256"W	6.52	
8457.00†	86.420	179.386	7851.52	1586.61	-1584.00	383.76	1631691.98	14547753.55	40°03'27.795"N	105°01'52.249"W	7.79	LANDING (181°FNL & 1723'FWL, SEC.17) 40.0577207 -105.0311802
8495.00	89.380	179.470	7852.91	1624.58	-1621.97	384.14	1631692.34	14547715.59	40°03'27.419"N	105°01'52.244"W	7.79	
8584.00	90.150	179.050	7853.28	1713.58	-1710.96	385.29	1631693.46	14547626.64	40°03'26.540"N	105°01'52.229"W	0.99	
8595.00†	90.159	179.138	7853.25	1724.58	-1721.96	385.46	1631693.63	14547615.64	40°03'26.431"N	105°01'52.227"W	0.80	EXIT RADIUS HEEL (319°FNL & 1724'FWL, SEC.17) 40.0573420 -105.0311741
8674.00	90.220	179.770	7852.99	1803.58	-1800.96	386.21	1631694.35	14547536.68	40°03'25.651"N	105°01'52.217"W	0.80	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 35C2-17HZ AWP
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (190 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
8763.00	89.260	181.130	7853.39	1892.56	-1889.95	385.51	1631693.62	14547447.72	40°03'24.771"N	105°01'52.226"W	1.87	
8853.00	90.250	181.140	7853.77	1982.53	-1979.93	383.73	1631691.81	14547357.78	40°03'23.882"N	105°01'52.249"W	1.10	
8943.00	88.680	181.440	7854.62	2072.48	-2069.90	381.70	1631689.75	14547267.84	40°03'22.993"N	105°01'52.275"W	1.78	
9032.00	89.260	181.940	7856.22	2161.41	-2158.85	379.08	1631687.09	14547178.94	40°03'22.114"N	105°01'52.309"W	0.86	
9122.00	90.150	182.310	7856.68	2251.32	-2248.78	375.74	1631683.73	14547089.04	40°03'21.225"N	105°01'52.352"W	1.07	
9211.00	88.980	180.470	7857.35	2340.27	-2337.75	373.58	1631681.54	14547000.11	40°03'20.346"N	105°01'52.380"W	2.45	
9300.00	90.060	180.150	7858.10	2429.26	-2426.74	373.10	1631681.02	14546911.15	40°03'19.466"N	105°01'52.386"W	1.27	
9390.00	91.660	180.500	7856.75	2519.24	-2516.73	372.59	1631680.48	14546821.20	40°03'18.577"N	105°01'52.392"W	1.82	
9480.00	90.280	180.370	7855.23	2609.21	-2606.71	371.91	1631679.76	14546731.25	40°03'17.688"N	105°01'52.401"W	1.54	
9569.00	88.210	179.040	7856.40	2698.20	-2695.69	372.37	1631680.19	14546642.31	40°03'16.809"N	105°01'52.395"W	2.76	
9659.00	88.830	178.340	7858.72	2788.15	-2785.64	374.42	1631682.21	14546552.40	40°03'15.920"N	105°01'52.369"W	1.04	
9748.00	90.860	178.890	7858.96	2877.14	-2874.61	376.58	1631684.33	14546463.46	40°03'15.040"N	105°01'52.341"W	2.36	
9838.00	92.250	179.050	7856.52	2967.09	-2964.56	378.19	1631685.91	14546373.55	40°03'14.152"N	105°01'52.321"W	1.55	
9927.00	90.520	178.200	7854.37	3056.05	-3053.50	380.33	1631688.01	14546284.64	40°03'13.273"N	105°01'52.293"W	2.17	
10017.00	90.190	179.620	7853.81	3146.04	-3143.48	382.04	1631689.69	14546194.69	40°03'12.383"N	105°01'52.271"W	1.62	
10106.00	90.250	179.050	7853.47	3235.04	-3232.47	383.07	1631690.69	14546105.74	40°03'11.504"N	105°01'52.258"W	0.64	
10196.00	88.090	177.240	7854.77	3324.99	-3322.41	385.98	1631693.57	14546015.84	40°03'10.615"N	105°01'52.220"W	3.13	
10286.00	87.410	176.200	7858.31	3414.81	-3412.19	391.13	1631698.68	14545926.09	40°03'09.728"N	105°01'52.154"W	1.38	
10375.00	86.760	175.470	7862.83	3503.50	-3500.84	397.59	1631705.10	14545837.47	40°03'08.852"N	105°01'52.071"W	1.10	
10465.00	93.050	178.100	7862.98	3593.34	-3590.64	402.63	1631710.11	14545747.70	40°03'07.964"N	105°01'52.006"W	7.57	
10555.00	92.530	179.720	7858.60	3683.22	-3680.52	404.34	1631711.79	14545657.86	40°03'07.076"N	105°01'51.984"W	1.89	
10644.00	92.710	180.790	7854.53	3772.12	-3769.42	403.94	1631711.36	14545569.00	40°03'06.198"N	105°01'51.990"W	1.22	
10734.00	89.850	179.320	7852.52	3862.08	-3859.39	403.86	1631711.24	14545479.07	40°03'05.309"N	105°01'51.991"W	3.57	
10823.00	92.590	179.590	7850.63	3951.05	-3948.36	404.70	1631712.05	14545390.13	40°03'04.429"N	105°01'51.980"W	3.09	
10913.00	93.170	179.290	7846.11	4040.94	-4038.24	405.58	1631712.90	14545300.29	40°03'03.541"N	105°01'51.969"W	0.73	
11002.00	90.740	180.170	7843.07	4129.88	-4127.18	406.00	1631713.29	14545211.38	40°03'02.662"N	105°01'51.963"W	2.90	
11092.00	90.430	179.640	7842.15	4219.87	-4217.17	406.15	1631713.40	14545121.43	40°03'01.773"N	105°01'51.961"W	0.68	
11181.00	91.080	179.790	7840.98	4308.86	-4306.16	406.59	1631713.81	14545032.47	40°03'00.893"N	105°01'51.956"W	0.75	
11271.00	92.030	180.170	7838.54	4398.83	-4396.13	406.62	1631713.81	14544942.54	40°03'00.004"N	105°01'51.955"W	1.14	
11360.00	90.620	180.240	7836.48	4487.80	-4485.10	406.31	1631713.46	14544853.60	40°02'59.125"N	105°01'51.959"W	1.59	
11450.00	89.690	179.160	7836.24	4577.79	-4575.10	406.78	1631713.90	14544763.64	40°02'58.236"N	105°01'51.953"W	1.58	
11540.00	88.680	177.970	7837.52	4667.77	-4665.06	409.03	1631716.12	14544673.72	40°02'57.347"N	105°01'51.924"W	1.73	
11629.00	89.260	178.210	7839.12	4756.72	-4753.99	412.00	1631719.05	14544584.82	40°02'56.468"N	105°01'51.886"W	0.71	
11719.00	89.600	178.060	7840.01	4846.69	-4843.94	414.93	1631721.94	14544494.91	40°02'55.579"N	105°01'51.849"W	0.41	
11808.00	90.370	179.850	7840.03	4935.68	-4932.92	416.55	1631723.53	14544405.96	40°02'54.700"N	105°01'51.828"W	2.19	
11898.00	90.710	180.070	7839.19	5025.67	-5022.92	416.61	1631723.56	14544316.00	40°02'53.810"N	105°01'51.827"W	0.45	
11988.00	90.090	181.010	7838.56	5115.66	-5112.91	415.76	1631722.68	14544226.04	40°02'52.921"N	105°01'51.838"W	1.25	
12077.00	90.580	180.520	7838.04	5204.64	-5201.90	414.58	1631721.46	14544137.09	40°02'52.042"N	105°01'51.853"W	0.78	
12167.00	88.950	180.240	7838.41	5294.62	-5291.89	413.98	1631720.83	14544047.13	40°02'51.152"N	105°01'51.861"W	1.84	
12257.00	89.230	179.940	7839.84	5384.61	-5381.88	413.84	1631720.66	14543957.18	40°02'50.263"N	105°01'51.863"W	0.46	
12346.00	89.630	179.660	7840.72	5473.60	-5470.88	414.15	1631720.94	14543868.22	40°02'49.383"N	105°01'51.859"W	0.55	
12436.00	90.920	180.120	7840.29	5563.60	-5560.87	414.32	1631721.08	14543778.26	40°02'48.494"N	105°01'51.856"W	1.52	
12525.00	90.060	179.270	7839.53	5652.59	-5649.87	414.79	1631721.52	14543689.30	40°02'47.615"N	105°01'51.850"W	1.36	
12615.00	90.590	179.020	7839.02	5742.59	-5739.86	416.14	1631722.83	14543599.35	40°02'46.725"N	105°01'51.833"W	0.65	
12705.00	88.800	179.390	7839.50	5832.58	-5829.84	417.39	1631724.04	14543509.40	40°02'45.836"N	105°01'51.817"W	2.03	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 35C2-17HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (190 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]
12794.00	89.690	179.380	7840.67	5921.57	-5918.83	418.34	1631724.97	14543420.45	40°02'44.957"N	105°01'51.805"W	1.00
12884.00	90.250	179.160	7840.72	6011.57	-6008.82	419.49	1631726.08	14543330.49	40°02'44.067"N	105°01'51.790"W	0.67
12973.00	89.290	179.410	7841.07	6100.57	-6097.81	420.60	1631727.16	14543241.54	40°02'43.188"N	105°01'51.776"W	1.11
13062.00	89.780	178.840	7841.80	6189.56	-6186.80	421.96	1631728.48	14543152.59	40°02'42.309"N	105°01'51.758"W	0.84
13152.00	91.110	179.740	7841.10	6279.55	-6276.79	423.07	1631729.56	14543062.63	40°02'41.419"N	105°01'51.744"W	1.78
13241.00	90.620	181.660	7839.75	6368.52	-6365.76	421.99	1631728.45	14542973.69	40°02'40.540"N	105°01'51.758"W	2.23
13287.00†	90.068	181.282	7839.48	6414.50	-6411.75	420.80	1631727.25	14542927.73	40°02'40.086"N	105°01'51.773"W	1.45
13331.00	89.540	180.920	7839.63	6458.48	-6455.74	419.96	1631726.39	14542883.75	40°02'39.651"N	105°01'51.784"W	1.45
13443.00	90.990	181.290	7839.11	6570.44	-6567.71	417.80	1631724.19	14542771.82	40°02'38.544"N	105°01'51.812"W	1.34
13495.00	90.990	181.290	7838.21	6622.41	-6619.69	416.63	1631723.00	14542719.87	40°02'38.031"N	105°01'51.827"W	0.00

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	-135.13	1631173.88	14549337.91	40°03'43.456"N	105°01'58.922"W	polygon
SEC.17-T1N-R68W	-2.00	0.81	-135.13	1631173.88	14549337.91	40°03'43.456"N	105°01'58.922"W	polygon
PAPA JO 2-25 35C2-17HZ BHL REV-1(53'FSL & 1689'FWL,SEC.17)	7824.00	-6620.57	410.21	1631716.58	14542719.00	40°02'38.022"N	105°01'51.910"W	point
PAPA JO 2-25 35C2-17HZ HEEL REV-1(50'FNL & 1646'FWL,SEC.17)	7847.00	-1448.74	374.57	1631682.85	14547888.76	40°03'29.131"N	105°01'52.367"W	point
PAPA JO 2-25 35C2-17HZ LANDBOX	7847.00	0.00	0.00	1631308.96	14549337.05	40°03'43.448"N	105°01'57.184"W	polygon
PAPA JO 2-25 35C2-17HZ RADIUS 1	7847.00	-6679.32	45.10	1631351.60	14542660.40	40°02'37.441"N	105°01'56.604"W	polygon
PAPA JO 2-25 35C2-17HZ RADIUS 2	7847.00	-1402.60	52.38	1631360.80	14547935.00	40°03'29.587"N	105°01'56.510"W	polygon
PAPA JO 2-25 35C2-17HZ INT. TARGET@2900'VS	7854.00	-2897.42	384.55	1631692.29	14546440.66	40°03'14.815"N	105°01'52.239"W	point

WELLPATH COMPOSITION - Ref Wellbore: PAPA JO 2-25 35C2-17HZ AWB				Ref Wellpath: PAPA JO 2-25 35C2-17HZ AWP		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment		Wellbore
26.00	1848.00	Custom APC	ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC	ISCWSA Rev-2 MWD+IFR1 <167 - 1848>	PAPA JO 2-25 35C2-17HZ AWB
1848.00	13443.00	Custom APC	ISCWSA REV 2 MWD+IFR1+SC (approximation)	BHGE Custom APC	ISCWSA Rev-2 MWD+IFR1+SC <1934 - 13443>	PAPA JO 2-25 35C2-17HZ AWB
13443.00	13495.00	Blind Drilling	(std)	Projection to bit		PAPA JO 2-25 35C2-17HZ AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#15 PAPA JO 2-25 35C2-17HZ(1403'FSL & 1339'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 35C2-17HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 35C2-17HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
167.00	0.790	85.360	167.00	FIRST SURFACE MWD+IFR1 SURVEY
1848.00	18.810	153.390	1811.90	LAST SURFACE MWD+IFR1 SURVEY
1934.00	18.660	153.050	1893.34	FIRST BHGE MWD+IFR1+SC SURVEY
2708.00	18.452	150.494	2625.80	ENTER LANDBOX (899'FSL & 1587'FWL,SEC.08) 40.0606856 -105.0316657
7148.00	1.961	140.869	7034.20	KOP
8457.00	86.420	179.386	7851.52	LANDING (181'FNL & 1723'FWL,SEC.17) 40.0577207 -105.0311802
8595.00	90.159	179.138	7853.25	EXIT RADIUS HEEL (319'FNL & 1724'FWL,SEC.17) 40.0573420 -105.0311741
13287.00	90.068	181.282	7839.48	ENTER RADIUS TOE (262'FSL & 1698'FWL,SEC.17) 40.0444682 -105.0310481
13443.00	90.990	181.290	7839.11	LAST BHGE MWD+IFR1+SC SURVEY
13495.00	90.990	181.290	7838.21	PTB (54'FSL & 1696'FWL,SEC.17) 40.0438974 -105.0310631