

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#12 PAPA JO 2-25 29N2-8HZ(1404'FSL & 1264'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29N2-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29N2-8HZ 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 8:53 AM
Convergence at slot	0.03° West	Database/Source file	WA_DEN_Anadarko_Defn/PAPA_JO_2-25_29N2-8HZ_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-841.49	-973.77	1631234.03	14549337.48	40°03'43.452"N	105°01'58.148"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#12 PAPA JO 2-25 29N2-8HZ(1404'FSL & 1264'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	0.00°

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Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29N2-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (188 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	60.140	0.00	0.00	0.00	0.00	1631234.03	14549337.48	40°03'43.452"N	105°01'58.148"W	0.00	
26.00	0.000	60.140	26.00	0.00	0.00	0.00	1631234.03	14549337.48	40°03'43.452"N	105°01'58.148"W	0.00	
139.00	1.190	60.140	138.99	0.58	0.58	1.02	1631235.05	14549338.07	40°03'43.458"N	105°01'58.135"W	1.05	FIRST SURFACE MWD+IFR1 SURVEY
171.00	1.050	71.420	170.99	0.84	0.84	1.58	1631235.62	14549338.33	40°03'43.460"N	105°01'58.128"W	0.81	
203.00	0.790	54.420	202.98	1.06	1.06	2.04	1631236.07	14549338.55	40°03'43.463"N	105°01'58.122"W	1.17	
234.00	0.440	75.600	233.98	1.22	1.22	2.33	1631236.36	14549338.70	40°03'43.464"N	105°01'58.118"W	1.33	
265.00	0.880	52.880	264.98	1.39	1.39	2.64	1631236.67	14549338.87	40°03'43.466"N	105°01'58.114"W	1.62	
296.00	0.660	50.910	295.97	1.65	1.65	2.96	1631237.00	14549339.13	40°03'43.468"N	105°01'58.110"W	0.71	
328.00	0.700	24.890	327.97	1.94	1.94	3.19	1631237.22	14549339.42	40°03'43.471"N	105°01'58.107"W	0.96	
359.00	0.880	53.810	358.97	2.25	2.25	3.46	1631237.49	14549339.74	40°03'43.474"N	105°01'58.103"W	1.39	
391.00	0.700	79.210	390.97	2.44	2.44	3.85	1631237.88	14549339.92	40°03'43.476"N	105°01'58.098"W	1.22	
423.00	0.750	153.210	422.97	2.29	2.29	4.14	1631238.17	14549339.77	40°03'43.475"N	105°01'58.095"W	2.73	
454.00	0.970	187.490	453.96	1.84	1.84	4.19	1631238.23	14549339.33	40°03'43.470"N	105°01'58.094"W	1.77	
486.00	1.050	204.190	485.96	1.31	1.31	4.04	1631238.07	14549338.79	40°03'43.465"N	105°01'58.096"W	0.95	
518.00	1.540	189.160	517.95	0.62	0.62	3.85	1631237.88	14549338.10	40°03'43.458"N	105°01'58.098"W	1.85	
549.00	1.890	191.440	548.93	-0.30	-0.30	3.68	1631237.71	14549337.19	40°03'43.449"N	105°01'58.101"W	1.15	
582.00	1.850	194.260	581.92	-1.35	-1.35	3.44	1631237.47	14549336.14	40°03'43.439"N	105°01'58.104"W	0.30	
613.00	2.110	201.200	612.90	-2.36	-2.36	3.11	1631237.15	14549335.12	40°03'43.429"N	105°01'58.108"W	1.14	
645.00	2.940	198.650	644.87	-3.69	-3.69	2.64	1631236.67	14549333.80	40°03'43.416"N	105°01'58.114"W	2.62	
677.00	4.170	193.730	676.81	-5.60	-5.60	2.10	1631236.13	14549331.89	40°03'43.397"N	105°01'58.121"W	3.96	
709.00	4.970	193.990	708.70	-8.07	-8.07	1.49	1631235.52	14549329.41	40°03'43.372"N	105°01'58.129"W	2.50	
740.00	5.670	197.240	739.57	-10.84	-10.84	0.71	1631234.74	14549326.65	40°03'43.345"N	105°01'58.139"W	2.46	
772.00	6.370	196.630	771.39	-14.05	-14.05	-0.27	1631233.76	14549323.44	40°03'43.313"N	105°01'58.151"W	2.20	
804.00	6.330	189.860	803.20	-17.49	-17.49	-1.08	1631232.95	14549320.00	40°03'43.279"N	105°01'58.162"W	2.34	
836.00	6.620	186.260	834.99	-21.06	-21.06	-1.58	1631232.45	14549316.43	40°03'43.244"N	105°01'58.168"W	1.56	
867.00	7.210	183.890	865.77	-24.78	-24.78	-1.91	1631232.12	14549312.72	40°03'43.207"N	105°01'58.173"W	2.11	
899.00	8.220	179.490	897.48	-29.07	-29.07	-2.02	1631232.00	14549308.43	40°03'43.165"N	105°01'58.174"W	3.65	
931.00	8.790	178.790	929.13	-33.80	-33.80	-1.95	1631232.07	14549303.70	40°03'43.118"N	105°01'58.173"W	1.81	
963.00	9.320	177.820	960.73	-38.83	-38.83	-1.80	1631232.22	14549298.67	40°03'43.068"N	105°01'58.171"W	1.72	
994.00	10.500	175.800	991.26	-44.16	-44.16	-1.50	1631232.52	14549293.34	40°03'43.016"N	105°01'58.167"W	3.97	
1026.00	11.120	176.410	1022.70	-50.15	-50.15	-1.09	1631232.92	14549287.36	40°03'42.956"N	105°01'58.162"W	1.97	
1058.00	11.650	174.570	1054.07	-56.44	-56.44	-0.59	1631233.42	14549281.06	40°03'42.894"N	105°01'58.156"W	2.01	
1089.00	11.820	175.800	1084.42	-62.73	-62.73	-0.06	1631233.95	14549274.78	40°03'42.832"N	105°01'58.149"W	0.98	
1121.00	12.660	175.360	1115.69	-69.49	-69.49	0.46	1631234.47	14549268.02	40°03'42.765"N	105°01'58.142"W	2.64	
1153.00	13.360	175.710	1146.87	-76.67	-76.67	1.02	1631235.03	14549260.84	40°03'42.694"N	105°01'58.135"W	2.20	
1185.00	14.460	176.500	1177.93	-84.35	-84.35	1.54	1631235.54	14549253.17	40°03'42.618"N	105°01'58.128"W	3.49	
1216.00	15.290	177.820	1207.89	-92.29	-92.29	1.93	1631235.93	14549245.23	40°03'42.540"N	105°01'58.123"W	2.89	
1248.00	15.690	177.730	1238.73	-100.83	-100.83	2.26	1631236.26	14549236.69	40°03'42.456"N	105°01'58.119"W	1.25	
1280.00	16.040	178.610	1269.51	-109.58	-109.58	2.54	1631236.54	14549227.95	40°03'42.369"N	105°01'58.115"W	1.33	
1312.00	16.920	179.580	1300.19	-118.65	-118.65	2.68	1631236.67	14549218.88	40°03'42.279"N	105°01'58.113"W	2.88	
1343.00	17.890	179.230	1329.78	-127.93	-127.93	2.78	1631236.77	14549209.61	40°03'42.188"N	105°01'58.112"W	3.15	
1375.00	18.850	180.720	1360.14	-138.01	-138.01	2.78	1631236.76	14549199.53	40°03'42.088"N	105°01'58.112"W	3.34	
1407.00	19.250	180.900	1390.39	-148.45	-148.45	2.64	1631236.61	14549189.09	40°03'41.985"N	105°01'58.114"W	1.26	
1438.00	19.380	180.190	1419.65	-158.71	-158.71	2.54	1631236.51	14549178.84	40°03'41.884"N	105°01'58.115"W	0.87	
1470.00	19.280	178.080	1449.84	-169.30	-169.30	2.70	1631236.67	14549168.26	40°03'41.779"N	105°01'58.113"W	2.20	

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Facility	SEC.08-T1N-R68W		

WELLPATH DATA (188 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 [ft/100ft]	Comments
1502.00	19.600	176.410	1480.02	-179.93	-179.93	3.21	1631237.18	14549157.62	40°03'41.674"N	105°01'58.107"W	2.00	
1533.00	19.780	177.290	1509.21	-190.36	-190.36	3.78	1631237.75	14549147.20	40°03'41.571"N	105°01'58.099"W	1.12	
1565.00	18.900	176.680	1539.40	-200.94	-200.94	4.34	1631238.30	14549136.62	40°03'41.466"N	105°01'58.092"W	2.82	
1597.00	18.630	176.500	1569.70	-211.22	-211.22	4.95	1631238.91	14549126.35	40°03'41.365"N	105°01'58.084"W	0.86	
1629.00	18.410	177.120	1600.04	-221.37	-221.37	5.52	1631239.47	14549116.20	40°03'41.264"N	105°01'58.077"W	0.92	
1660.00	18.150	176.240	1629.48	-231.07	-231.07	6.08	1631240.03	14549106.50	40°03'41.168"N	105°01'58.070"W	1.22	
1692.00	18.060	176.330	1659.89	-241.00	-241.00	6.73	1631240.67	14549096.58	40°03'41.070"N	105°01'58.062"W	0.29	
1724.00	18.060	176.590	1690.32	-250.90	-250.90	7.34	1631241.28	14549086.68	40°03'40.973"N	105°01'58.054"W	0.25	
1756.00	18.110	176.150	1720.74	-260.81	-260.81	7.97	1631241.90	14549076.77	40°03'40.875"N	105°01'58.046"W	0.45	
1787.00	18.240	176.770	1750.19	-270.46	-270.46	8.56	1631242.49	14549067.13	40°03'40.779"N	105°01'58.038"W	0.75	
1819.00	18.330	176.590	1780.57	-280.49	-280.49	9.15	1631243.07	14549057.11	40°03'40.680"N	105°01'58.030"W	0.33	
1837.00	18.590	176.680	1797.65	-286.18	-286.18	9.48	1631243.40	14549051.42	40°03'40.624"N	105°01'58.026"W	1.45	LAST SURFACE MWD+IFR1 SURVEY
1934.00	18.000	177.380	1889.74	-316.58	-316.58	11.06	1631244.97	14549021.02	40°03'40.323"N	105°01'58.006"W	0.65	FIRST BHGE MWD+IFR1+SC SURVEY
2024.00	18.690	176.750	1975.17	-344.87	-344.87	12.51	1631246.41	14548992.74	40°03'40.044"N	105°01'57.987"W	0.80	
2113.00	19.650	183.700	2059.24	-374.05	-374.05	12.36	1631246.25	14548963.58	40°03'39.756"N	105°01'57.989"W	2.78	
2203.00	20.630	181.730	2143.74	-405.00	-405.00	10.90	1631244.78	14548932.65	40°03'39.450"N	105°01'58.008"W	1.32	
2292.00	22.230	178.560	2226.59	-437.50	-437.50	10.85	1631244.72	14548900.15	40°03'39.129"N	105°01'58.008"W	2.22	
2382.00	23.330	175.200	2309.57	-472.28	-472.28	12.77	1631246.62	14548865.39	40°03'38.785"N	105°01'57.984"W	1.89	
2472.00	23.370	173.850	2392.20	-507.79	-507.79	16.17	1631250.01	14548829.89	40°03'38.434"N	105°01'57.940"W	0.60	
2561.00	23.770	172.960	2473.78	-543.14	-543.14	20.26	1631254.09	14548794.55	40°03'38.085"N	105°01'57.887"W	0.60	
2651.00	23.660	175.810	2556.18	-579.15	-579.15	23.81	1631257.62	14548758.55	40°03'37.729"N	105°01'57.842"W	1.28	
2740.00	24.370	179.030	2637.48	-615.33	-615.33	25.42	1631259.22	14548722.40	40°03'37.371"N	105°01'57.821"W	1.67	
2830.00	23.970	176.680	2719.59	-652.14	-652.14	26.79	1631260.58	14548685.59	40°03'37.007"N	105°01'57.803"W	1.16	
2919.00	23.340	178.540	2801.11	-687.82	-687.82	28.29	1631262.06	14548649.93	40°03'36.655"N	105°01'57.784"W	1.10	
3009.00	22.770	178.160	2883.92	-723.05	-723.05	29.30	1631263.06	14548614.72	40°03'36.307"N	105°01'57.771"W	0.65	
3098.00	22.990	181.420	2965.92	-757.64	-757.64	29.43	1631263.17	14548580.14	40°03'35.965"N	105°01'57.770"W	1.45	
3188.00	24.160	179.270	3048.41	-793.63	-793.63	29.23	1631262.95	14548544.17	40°03'35.609"N	105°01'57.772"W	1.61	
3277.00	23.380	179.410	3129.86	-829.50	-829.50	29.64	1631263.35	14548508.31	40°03'35.255"N	105°01'57.767"W	0.88	
3367.00	24.560	179.850	3212.10	-866.06	-866.06	29.87	1631263.57	14548471.76	40°03'34.893"N	105°01'57.764"W	1.33	
3457.00	22.900	177.390	3294.49	-902.26	-902.26	30.72	1631264.41	14548435.58	40°03'34.536"N	105°01'57.753"W	2.15	
3546.00	21.670	177.010	3376.84	-935.97	-935.97	32.36	1631266.04	14548401.88	40°03'34.203"N	105°01'57.732"W	1.39	
3636.00	22.840	178.810	3460.14	-970.03	-970.03	33.59	1631267.26	14548367.84	40°03'33.866"N	105°01'57.716"W	1.50	
3726.00	23.870	179.720	3542.76	-1005.70	-1005.70	34.05	1631267.69	14548332.18	40°03'33.513"N	105°01'57.710"W	1.21	
3815.00	23.090	177.010	3624.39	-1041.14	-1041.14	35.04	1631268.68	14548296.75	40°03'33.163"N	105°01'57.697"W	1.50	
3904.00	22.550	176.800	3706.43	-1075.60	-1075.60	36.91	1631270.53	14548262.30	40°03'32.823"N	105°01'57.673"W	0.61	
3994.00	22.360	176.890	3789.60	-1109.93	-1109.93	38.80	1631272.41	14548227.99	40°03'32.483"N	105°01'57.649"W	0.21	
4084.00	24.010	180.670	3872.34	-1145.34	-1145.34	39.51	1631273.11	14548192.59	40°03'32.134"N	105°01'57.640"W	2.47	
4173.00	23.040	176.590	3953.94	-1180.83	-1180.83	40.34	1631273.92	14548157.11	40°03'31.783"N	105°01'57.629"W	2.13	
4263.00	23.460	177.380	4036.63	-1216.31	-1216.31	42.20	1631275.77	14548121.65	40°03'31.432"N	105°01'57.605"W	0.58	
4352.00	22.090	179.460	4118.69	-1250.74	-1250.74	43.17	1631276.73	14548087.23	40°03'31.092"N	105°01'57.593"W	1.79	
4442.00	24.060	180.220	4201.49	-1286.01	-1286.01	43.26	1631276.80	14548051.97	40°03'30.743"N	105°01'57.592"W	2.21	
4531.00	24.530	178.030	4282.61	-1322.62	-1322.62	43.83	1631277.35	14548015.38	40°03'30.382"N	105°01'57.584"W	1.14	
4621.00	24.160	176.890	4364.61	-1359.68	-1359.68	45.47	1631278.98	14547978.33	40°03'30.015"N	105°01'57.563"W	0.66	
4710.00	22.010	177.340	4446.48	-1394.53	-1394.53	47.23	1631280.73	14547943.50	40°03'29.671"N	105°01'57.541"W	2.42	
4799.00	22.130	178.090	4528.95	-1427.95	-1427.95	48.56	1631282.05	14547910.09	40°03'29.341"N	105°01'57.523"W	0.34	

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Area	COLORADO	Well	PAPA JO 2-25 29N2-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29N2-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (188 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
4914.00	22.950	176.900	4635.17	-1471.98	-1471.98	50.50	1631283.97	14547866.07	40°03'28.906"N	105°01'57.499"W	0.82	
5004.00	23.620	179.140	4717.84	-1507.53	-1507.53	51.72	1631285.17	14547830.54	40°03'28.554"N	105°01'57.483"W	1.23	
5093.00	24.980	179.740	4798.95	-1544.15	-1544.15	52.07	1631285.51	14547793.93	40°03'28.192"N	105°01'57.478"W	1.55	
5183.00	22.380	178.570	4881.37	-1580.29	-1580.29	52.58	1631286.01	14547757.81	40°03'27.835"N	105°01'57.472"W	2.94	
5272.00	21.420	181.830	4963.95	-1613.48	-1613.48	52.49	1631285.90	14547724.64	40°03'27.507"N	105°01'57.473"W	1.74	
5361.00	22.280	181.790	5046.55	-1646.58	-1646.58	51.44	1631284.85	14547691.54	40°03'27.180"N	105°01'57.486"W	0.97	
5451.00	19.870	179.400	5130.53	-1678.94	-1678.94	51.07	1631284.46	14547659.20	40°03'26.860"N	105°01'57.491"W	2.84	
5540.00	18.630	180.150	5214.55	-1708.28	-1708.28	51.19	1631284.57	14547629.88	40°03'26.570"N	105°01'57.490"W	1.42	
5630.00	16.250	179.310	5300.41	-1735.25	-1735.25	51.30	1631284.68	14547602.92	40°03'26.304"N	105°01'57.488"W	2.66	
5719.00	13.880	179.260	5386.34	-1758.38	-1758.38	51.59	1631284.96	14547579.80	40°03'26.075"N	105°01'57.485"W	2.66	
5809.00	14.180	180.780	5473.66	-1780.19	-1780.19	51.58	1631284.94	14547557.99	40°03'25.860"N	105°01'57.485"W	0.53	
5898.00	12.320	179.290	5560.29	-1800.59	-1800.59	51.55	1631284.90	14547537.60	40°03'25.658"N	105°01'57.485"W	2.12	
5988.00	13.350	181.890	5648.04	-1820.58	-1820.58	51.33	1631284.67	14547517.62	40°03'25.461"N	105°01'57.488"W	1.31	
6078.00	11.240	179.340	5735.97	-1839.73	-1839.73	51.09	1631284.42	14547498.47	40°03'25.271"N	105°01'57.491"W	2.42	
6167.00	9.320	178.920	5823.54	-1855.61	-1855.61	51.32	1631284.65	14547482.60	40°03'25.114"N	105°01'57.488"W	2.16	
6257.00	9.680	172.780	5912.30	-1870.41	-1870.41	52.41	1631285.73	14547467.81	40°03'24.968"N	105°01'57.474"W	1.19	
6346.00	8.030	171.400	6000.24	-1883.98	-1883.98	54.28	1631287.60	14547454.24	40°03'24.834"N	105°01'57.450"W	1.87	
6436.00	6.510	167.400	6089.51	-1895.17	-1895.17	56.33	1631289.64	14547443.05	40°03'24.723"N	105°01'57.424"W	1.78	
6525.00	5.330	166.790	6178.04	-1904.12	-1904.12	58.38	1631291.69	14547434.11	40°03'24.635"N	105°01'57.397"W	1.33	
6615.00	4.660	170.220	6267.70	-1911.79	-1911.79	59.95	1631293.26	14547426.44	40°03'24.559"N	105°01'57.377"W	0.81	
6704.00	4.250	178.140	6356.43	-1918.65	-1918.65	60.68	1631293.98	14547419.58	40°03'24.491"N	105°01'57.368"W	0.83	
6794.00	3.750	185.260	6446.21	-1924.92	-1924.92	60.51	1631293.81	14547413.32	40°03'24.430"N	105°01'57.370"W	0.78	
6883.00	3.230	182.950	6535.04	-1930.32	-1930.32	60.12	1631293.42	14547407.92	40°03'24.376"N	105°01'57.375"W	0.61	
6972.00	3.420	181.540	6623.89	-1935.48	-1935.48	59.92	1631293.21	14547402.76	40°03'24.325"N	105°01'57.377"W	0.23	
7062.00	2.050	157.530	6713.79	-1939.65	-1939.65	60.46	1631293.75	14547398.59	40°03'24.284"N	105°01'57.370"W	1.95	
7152.00	2.270	163.210	6803.73	-1942.84	-1942.84	61.59	1631294.88	14547395.40	40°03'24.252"N	105°01'57.356"W	0.34	
7242.00	2.120	324.080	6893.70	-1943.20	-1943.20	61.13	1631294.42	14547395.04	40°03'24.249"N	105°01'57.362"W	4.81	
7247.00†	2.440	332.118	6898.70	-1943.03	-1943.03	61.02	1631294.32	14547395.21	40°03'24.251"N	105°01'57.363"W	9.04	KOP
7331.00	9.570	3.530	6982.20	-1934.47	-1934.47	60.62	1631293.91	14547403.77	40°03'24.335"N	105°01'57.368"W	9.04	
7421.00	14.450	6.240	7070.20	-1915.83	-1915.83	62.30	1631295.60	14547422.40	40°03'24.519"N	105°01'57.347"W	5.46	
7510.00	23.290	358.480	7154.35	-1887.14	-1887.14	63.04	1631296.35	14547451.08	40°03'24.803"N	105°01'57.337"W	10.30	
7600.00	31.690	357.510	7234.12	-1845.66	-1845.66	61.54	1631294.87	14547492.54	40°03'25.213"N	105°01'57.357"W	9.35	
7689.00	38.100	357.550	7307.08	-1794.82	-1794.82	59.35	1631292.70	14547543.36	40°03'25.715"N	105°01'57.385"W	7.20	
7779.00	46.610	358.580	7373.53	-1734.28	-1734.28	57.35	1631290.72	14547603.88	40°03'26.314"N	105°01'57.410"W	9.49	
7868.00	52.190	0.830	7431.43	-1666.74	-1666.74	57.05	1631290.45	14547671.40	40°03'26.981"N	105°01'57.414"W	6.56	
7958.00	56.780	359.020	7483.70	-1593.50	-1593.50	56.93	1631290.35	14547744.60	40°03'27.705"N	105°01'57.416"W	5.36	
8047.00	63.150	357.070	7528.22	-1516.55	-1516.55	54.26	1631287.71	14547821.53	40°03'28.465"N	105°01'57.450"W	7.40	
8137.00	69.640	359.690	7564.25	-1434.16	-1434.16	51.97	1631285.46	14547903.88	40°03'29.279"N	105°01'57.480"W	7.69	
8227.00	75.340	0.540	7591.32	-1348.37	-1348.37	52.16	1631285.67	14547989.64	40°03'30.127"N	105°01'57.477"W	6.40	
8316.00	84.200	1.070	7607.11	-1260.88	-1260.88	53.39	1631286.94	14548077.09	40°03'30.992"N	105°01'57.461"W	9.97	
8372.00†	88.462	0.839	7610.69	-1205.02	-1205.02	54.32	1631287.89	14548132.93	40°03'31.544"N	105°01'57.449"W	7.62	LANDING (199'FSL & 1318'FWL,SEC.08) 40.0587622 -105.0326248
8406.00	91.050	0.700	7610.84	-1171.02	-1171.02	54.78	1631288.36	14548166.91	40°03'31.880"N	105°01'57.444"W	7.62	
8495.00	92.190	0.180	7608.32	-1082.06	-1082.06	55.46	1631289.07	14548255.84	40°03'32.759"N	105°01'57.435"W	1.41	
8585.00	89.780	2.060	7606.77	-992.10	-992.10	57.22	1631290.87	14548345.76	40°03'33.648"N	105°01'57.412"W	3.40	
8628.00†	90.244	2.021	7606.76	-949.13	-949.13	58.75	1631292.41	14548388.71	40°03'34.072"N	105°01'57.392"W	1.08	EXIT RADIUS HEEL (455'FSL & 1322'FWL,SEC.08) 40.0594646 -105.0326090

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#12 PAPA JO 2-25 29N2-8HZ(1404'FSL & 1264'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29N2-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29N2-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH DATA (188 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
8674.00	90.740	1.980	7606.37	-903.16	-903.16	60.36	1631294.03	14548434.66	40°03'34.527"N	105°01'57.372"W	1.08	
8764.00	88.310	2.980	7607.11	-813.26	-813.26	64.25	1631297.96	14548524.53	40°03'35.415"N	105°01'57.322"W	2.92	
8854.00	88.270	2.760	7609.80	-723.41	-723.41	68.76	1631302.49	14548614.34	40°03'36.303"N	105°01'57.264"W	0.25	
8943.00	89.690	1.290	7611.38	-634.48	-634.48	71.90	1631305.67	14548703.23	40°03'37.182"N	105°01'57.223"W	2.30	
9033.00	90.990	1.830	7610.85	-544.52	-544.52	74.35	1631308.15	14548793.16	40°03'38.071"N	105°01'57.192"W	1.56	
9122.00	90.890	358.430	7609.39	-455.55	-455.55	74.55	1631308.39	14548882.09	40°03'38.950"N	105°01'57.189"W	3.82	
9212.00	91.510	358.440	7607.50	-365.60	-365.60	72.09	1631305.96	14548972.01	40°03'39.839"N	105°01'57.221"W	0.69	
9301.00	89.140	358.430	7607.00	-276.64	-276.64	69.66	1631303.57	14549060.93	40°03'40.718"N	105°01'57.252"W	2.66	
9391.00	89.080	358.440	7608.40	-186.68	-186.68	67.21	1631301.14	14549150.85	40°03'41.607"N	105°01'57.284"W	0.07	
9480.00	89.660	358.250	7609.38	-97.73	-97.73	64.64	1631298.61	14549239.77	40°03'42.486"N	105°01'57.317"W	0.69	
9569.00	90.370	357.650	7609.35	-8.79	-8.79	61.45	1631295.46	14549328.68	40°03'43.365"N	105°01'57.358"W	1.04	
9659.00	91.080	357.920	7608.21	81.14	81.14	57.97	1631292.01	14549418.57	40°03'44.254"N	105°01'57.402"W	0.84	
9749.00	89.660	0.390	7607.63	171.12	171.12	56.65	1631290.72	14549508.51	40°03'45.143"N	105°01'57.419"W	3.17	
9838.00	89.080	0.350	7608.61	260.11	260.11	57.22	1631291.33	14549597.47	40°03'46.022"N	105°01'57.412"W	0.65	
9928.00	89.540	359.820	7609.70	350.10	350.10	57.36	1631291.49	14549687.43	40°03'46.912"N	105°01'57.410"W	0.78	
10017.00	90.400	0.070	7609.74	439.10	439.10	57.27	1631291.44	14549776.39	40°03'47.791"N	105°01'57.411"W	1.01	
10197.00	89.080	0.880	7610.56	619.09	619.09	58.76	1631293.00	14549956.30	40°03'49.570"N	105°01'57.392"W	0.86	
10286.00	89.080	1.210	7611.99	708.06	708.06	60.38	1631294.65	14550045.24	40°03'50.449"N	105°01'57.371"W	0.37	
10376.00	89.480	1.350	7613.12	798.03	798.03	62.40	1631296.70	14550135.17	40°03'51.338"N	105°01'57.345"W	0.47	
10555.00	90.220	1.700	7613.59	976.97	976.97	67.16	1631301.52	14550314.03	40°03'53.107"N	105°01'57.284"W	0.46	
10645.00	90.770	1.890	7612.81	1066.92	1066.92	69.98	1631304.38	14550403.95	40°03'53.996"N	105°01'57.248"W	0.65	
10824.00	90.280	359.130	7611.17	1245.89	1245.89	71.57	1631306.03	14550582.84	40°03'55.764"N	105°01'57.227"W	1.57	
10913.00	91.020	359.030	7610.16	1334.87	1334.87	70.14	1631304.64	14550671.79	40°03'56.643"N	105°01'57.246"W	0.84	
11003.00	88.950	358.500	7610.18	1424.84	1424.84	68.20	1631302.73	14550761.73	40°03'57.533"N	105°01'57.271"W	2.37	
11093.00	89.480	358.320	7611.42	1514.80	1514.80	65.71	1631300.27	14550851.65	40°03'58.422"N	105°01'57.303"W	0.62	
11182.00	89.630	357.880	7612.11	1603.75	1603.75	62.75	1631297.35	14550940.56	40°03'59.301"N	105°01'57.341"W	0.52	
11271.00	90.030	357.670	7612.37	1692.68	1692.68	59.30	1631293.93	14551029.46	40°04'00.179"N	105°01'57.385"W	0.51	
11361.00	88.830	359.530	7613.27	1782.64	1782.64	57.10	1631291.77	14551119.39	40°04'01.068"N	105°01'57.414"W	2.46	
11451.00	88.950	359.450	7615.01	1872.62	1872.62	56.30	1631291.00	14551209.33	40°04'01.958"N	105°01'57.424"W	0.16	
11540.00	89.080	359.170	7616.54	1961.60	1961.60	55.23	1631289.96	14551298.28	40°04'02.837"N	105°01'57.438"W	0.35	
11630.00	90.770	358.860	7616.66	2051.59	2051.59	53.68	1631288.45	14551388.23	40°04'03.726"N	105°01'57.458"W	1.91	
11719.00	91.200	358.430	7615.13	2140.55	2140.55	51.58	1631286.38	14551477.15	40°04'04.605"N	105°01'57.485"W	0.68	
11809.00	90.280	1.040	7613.97	2230.53	2230.53	51.16	1631285.99	14551567.10	40°04'05.495"N	105°01'57.490"W	3.07	
11899.00	90.340	0.480	7613.48	2320.52	2320.52	52.35	1631287.22	14551657.05	40°04'06.384"N	105°01'57.475"W	0.63	
11988.00	91.200	0.370	7612.28	2409.51	2409.51	53.01	1631287.91	14551746.01	40°04'07.263"N	105°01'57.466"W	0.97	
12078.00	89.480	1.860	7611.75	2499.49	2499.49	54.77	1631289.70	14551835.94	40°04'08.152"N	105°01'57.444"W	2.53	
12167.00	90.090	1.560	7612.08	2588.44	2588.44	57.42	1631292.38	14551924.87	40°04'09.032"N	105°01'57.409"W	0.76	
12257.00	91.480	1.310	7610.85	2678.41	2678.41	59.67	1631294.67	14552014.79	40°04'09.921"N	105°01'57.380"W	1.57	
12347.00	89.170	1.650	7610.34	2768.37	2768.37	62.00	1631297.03	14552104.72	40°04'10.810"N	105°01'57.351"W	2.59	
12436.00	89.570	1.220	7611.32	2857.33	2857.33	64.23	1631299.29	14552193.65	40°04'11.689"N	105°01'57.322"W	0.66	
12526.00	90.190	1.260	7611.51	2947.31	2947.31	66.18	1631301.27	14552283.59	40°04'12.578"N	105°01'57.297"W	0.69	
12615.00	90.980	0.890	7610.60	3036.29	3036.29	67.85	1631302.97	14552372.53	40°04'13.457"N	105°01'57.275"W	0.98	
12705.00	89.290	1.530	7610.39	3126.27	3126.27	69.75	1631304.90	14552462.47	40°04'14.346"N	105°01'57.251"W	2.01	
12794.00	89.600	1.120	7611.25	3215.24	3215.24	71.80	1631306.99	14552551.40	40°04'15.226"N	105°01'57.224"W	0.58	
12884.00	89.140	0.650	7612.24	3305.22	3305.22	73.19	1631308.42	14552641.35	40°04'16.115"N	105°01'57.207"W	0.73	

REFERENCE WELLPATH IDENTIFICATION				
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)		Slot	SLOT#12 PAPA JO 2-25 29N2-8HZ(1404'FSL & 1264'FWL,SEC.08)
Area	COLORADO		Well	PAPA JO 2-25 29N2-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)		Wellbore	PAPA JO 2-25 29N2-8HZ AWB
Facility	SEC.08-T1N-R68W			

WELLPATH DATA (188 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
12974.00	89.480	0.130	7613.32	3395.21	3395.21	73.81	1631309.06	14552731.31	40°04'17.004"N	105°01'57.199"W	0.69	
13063.00	89.780	0.110	7613.90	3484.21	3484.21	73.99	1631309.28	14552820.27	40°04'17.884"N	105°01'57.196"W	0.34	
13103.00†	90.099	0.110	7613.94	3524.21	3524.21	74.07	1631309.37	14552860.25	40°04'18.279"N	105°01'57.195"W	0.80	ENTER RADIUS TOE (459'FNL & 1347'FWL,SEC.08) 40.0717442 -105.0325542
13152.00	90.490	0.110	7613.69	3573.21	3573.21	74.16	1631309.48	14552909.23	40°04'18.763"N	105°01'57.194"W	0.80	
13242.00	90.740	359.720	7612.72	3663.20	3663.20	74.03	1631309.38	14552999.19	40°04'19.653"N	105°01'57.196"W	0.51	
13332.00	91.480	359.590	7610.98	3753.19	3753.19	73.49	1631308.87	14553089.13	40°04'20.542"N	105°01'57.203"W	0.83	
13464.00	92.560	358.640	7606.32	3885.08	3885.08	71.45	1631306.89	14553220.98	40°04'21.845"N	105°01'57.229"W	1.09	LAST BHGE MWD+IFR1+SC SURVEY
13510.00	92.560	358.640	7604.27	3931.03	3931.03	70.36	1631305.81	14553266.90	40°04'22.299"N	105°01'57.243"W	0.00	PTB (52'FNL & 1343'FWL,SEC.08) 40.0728609 -105.0325675

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	0.40	-60.18	1631173.88	14549337.91	40°03'43.456"N	105°01'58.922"W	polygon
PAPA JO 2-25 29N2-8HZ BHL REV-1(50'FNL & 1335'FWL,SEC.08)	7608.00	3933.25	61.57	1631297.03	14553269.13	40°04'22.321"N	105°01'57.356"W	point
PAPA JO 2-25 29N2-8HZ HEEL REV-1(200'FSL & 1267'FWL,SEC.08)	7608.00	-1203.62	61.55	1631295.12	14548134.33	40°03'31.558"N	105°01'57.356"W	point
PAPA JO 2-25 29N2-8HZ LANDBOX	7608.00	0.00	0.00	1631234.03	14549337.48	40°03'43.452"N	105°01'58.148"W	polygon
PAPA JO 2-25 29N2-8HZ RADIUS 1	7608.00	3982.96	104.44	1631339.90	14553318.80	40°04'22.812"N	105°01'56.805"W	polygon
PAPA JO 2-25 29N2-8HZ RADIUS 2	7608.00	-1403.00	127.34	1631360.80	14547935.00	40°03'29.587"N	105°01'56.510"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: PAPA JO 2-25 29N2-8HZ AWB Ref Wellpath: PAPA JO 2-25 29N2-8HZ AWP					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment	Wellbore
26.00	1837.00	Custom APC	ISCWSA REV 2 MWD+IFR1 (approximation)	Custom APC ISCWSA Rev-2 MWD+IFR1 <139 - 1837>	PAPA JO 2-25 29N2-8HZ AWB
1837.00	13464.00	Custom APC	ISCWSA REV 2 MWD+SC	BHGE Custom APC ISCWSA Rev-2 MWD+IFR1+SC <1932 - 13462>	PAPA JO 2-25 29N2-8HZ AWB
13464.00	13510.00	Blind Drilling (std)		Projection to bit	PAPA JO 2-25 29N2-8HZ AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP (WA)	Slot	SLOT#12 PAPA JO 2-25 29N2-8HZ(1404'FSL & 1264'FWL,SEC.08)
Area	COLORADO	Well	PAPA JO 2-25 29N2-8HZ
Field	WELD COUNTY (UTM/TRUE NORTH)	Wellbore	PAPA JO 2-25 29N2-8HZ AWB
Facility	SEC.08-T1N-R68W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
139.00	1.190	60.140	138.99	FIRST SURFACE MWD+IFR1 SURVEY
1837.00	18.590	176.680	1797.65	LAST SURFACE MWD+IFR1 SURVEY
1934.00	18.000	177.380	1889.74	FIRST BHGE MWD+IFR1+SC SURVEY
7247.00	2.440	332.118	6898.70	KOP
8372.00	88.462	0.839	7610.69	LANDING (199'FSL & 1318'FWL,SEC.08) 40.0587622 -105.0326248
8628.00	90.244	2.021	7606.76	EXIT RADIUS HEEL (455'FSL & 1322'FWL,SEC.08) 40.0594646 -105.0326090
13103.00	90.099	0.110	7613.94	ENTER RADIUS TOE (459'FNL & 1347'FWL,SEC.08) 40.0717442 -105.0325542
13464.00	92.560	358.640	7606.32	LAST BHGE MWD+IFR1+SC SURVEY
13510.00	92.560	358.640	7604.27	PTB (52'FNL & 1343'FWL,SEC.08) 40.0728609 -105.0325675