



# Clearance Report

MEAD 1 (REV-B.0) PWP

Closest Approach

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#01 MEAD 1(1352'FNL & 402'FEL,SEC.09)
Area	COLORADO	Well	MEAD 1
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Painsetr
Scale	0.999975	Report Generated	8/5/2014 at 10:15:39 AM
Convergence at slot	n/a	Database/Source file	WA_Denver/MEAD_1_PWB_CR.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3201342.82	1459836.89	40°35'36.208"N	104°46'29.986"W
Facility Reference Pt			3201342.82	1459836.89	40°35'36.208"N	104°46'29.986"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

## WELLPATH DATUM

Calculation method	Minimum Curvature	RIG (RKB) to Facility Vertical Datum	4991.00ft
Horizontal Reference Pt	Slot	RIG (RKB) to Mean Sea Level	4991.00ft
Vertical Reference Pt	RIG (RKB)	RIG (RKB) to Mud Line at Slot (SLOT#01 MEAD 1(1352'FNL & 402'FEL,SEC.09))	4991.00ft
MD Reference Pt	RIG (RKB)		
Field Vertical Reference	Mean Sea Level		

## POSITIONAL UNCERTAINTY CALCULATION SETTINGS

Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	24.00ft	Surface Position Uncertainty	included
Declination	8.56° East of TN	Dip Angle	67.10°	Mag Field Strength	52862 nT
Slot Surface Uncertainty @ 1SD		Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @ 1SD		Horizontal	8.200ft	Vertical	3.000ft

Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes



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## ANTI-COLLISION RULE

Rule Name	Baker Hughes Stop Drilling	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.00
Subtract Casing & Hole Size	yes	Apply Cone of Safety	no

## HOLE & CASING SECTIONS - Ref Wellbore: MEAD 1 PWB Ref Wellpath: MEAD 1 (REV-B.0) 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]
7in Casing Intermediate	24.00	7983.05	7959.05	24.00	7505.00	0.00	0.00	1301.33	-59.40

## SURVEY PROGRAM - Ref Wellbore: MEAD 1 PWB Ref Wellpath: MEAD 1 (REV-B.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	13000.00	NaviTrak (Standard)		MEAD 1 PWB

## CALCULATION RANGE & CUTOFF

From: 24.00ft MD	To: 12395.98ft MD	C-C Cutoff: (none)
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## OFFSET WELL CLEARANCE SUMMARY (1 Offset Wellpath selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.09-T07N-R66W	SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09)	MEAD 2	MEAD 2 PWB	MEAD 2 (REV-B.0) PWP	24.00	26.31	6924.00	12395.98	1.07	12395.98	PASS



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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## CLEARANCE DATA - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Facility: SEC.09-T07N-R66W Slot: SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09) Well: MEAD 2 Threshold Value=1.00

† = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
24.00	24.00	0.00	0.00	24.00	24.00	-26.31	-0.23	180.50	26.31	1.18	42.88	PASS
124.00†	124.00	0.00	0.00	124.00	124.00	-26.31	-0.23	180.50	26.31	1.52	27.48	PASS
224.00†	224.00	0.00	0.00	224.00	224.00	-26.31	-0.23	180.50	26.31	2.14	16.52	PASS
324.00†	324.00	0.00	0.00	324.00	324.00	-26.31	-0.23	180.50	26.31	2.82	11.50	PASS
424.00†	424.00	0.00	0.00	424.00	424.00	-26.31	-0.23	180.50	26.31	3.52	8.76	PASS
524.00†	524.00	0.00	0.00	524.00	524.00	-26.31	-0.23	180.50	26.31	4.23	7.06	PASS
624.00†	624.00	0.00	0.00	624.00	624.00	-26.31	-0.23	180.50	26.31	4.94	5.91	PASS
724.00†	724.00	0.00	0.00	724.00	724.00	-26.31	-0.23	180.50	26.31	5.65	5.08	PASS
824.00†	824.00	0.00	0.00	824.00	824.00	-26.31	-0.23	180.50	26.31	6.36	4.45	PASS
850.00	850.00	0.00	0.00	850.00	850.00	-26.31	-0.23	180.50	26.31	6.55	4.31	PASS
924.00†	923.99	0.88	0.38	924.62	924.61	-25.44	0.19	180.41	26.32	7.14	3.92	PASS
1024.00†	1023.89	4.84	2.11	1025.45	1025.34	-21.49	2.13	179.97	26.37	8.26	3.36	PASS
1124.00†	1123.58	12.00	5.23	1126.29	1125.86	-14.35	5.61	179.17	26.45	9.51	2.90	PASS
1224.00†	1222.94	22.35	9.74	1227.11	1226.03	-4.04	10.65	178.03	26.59	10.66	2.58	PASS
1324.00†	1321.84	35.87	15.63	1327.94	1325.72	9.43	17.22	176.54	26.77	11.73	2.35	PASS
1424.00†	1420.17	52.54	22.89	1428.75	1424.82	26.04	25.34	174.73	27.02	12.75	2.17	PASS
1478.65	1473.61	62.98	27.44	1483.53	1478.43	36.15	30.27	173.97	27.41	13.21	2.12	PASS
1524.00†	1517.88	72.03	31.38	1528.88	1522.81	44.55	34.37	173.78	28.08	13.55	2.12	PASS
1624.00†	1615.48	91.99	40.07	1628.86	1620.65	63.07	43.42	173.40	29.57	14.33	2.11	PASS
1724.00†	1713.08	111.95	48.77	1728.85	1718.49	81.59	52.47	173.06	31.05	15.15	2.09	PASS
1824.00†	1810.69	131.90	57.46	1828.84	1816.33	100.11	61.51	172.74	32.54	16.00	2.07	PASS
1924.00†	1908.29	151.86	66.16	1928.83	1914.17	118.63	70.56	172.46	34.03	16.89	2.05	PASS
2024.00†	2005.89	171.82	74.85	2028.82	2012.01	137.16	79.60	172.20	35.52	17.81	2.03	PASS
2124.00†	2103.49	191.77	83.54	2128.81	2109.85	155.68	88.65	171.95	37.00	18.75	2.00	PASS
2224.00†	2201.09	211.73	92.24	2228.80	2207.69	174.20	97.69	171.73	38.49	19.71	1.98	PASS
2324.00†	2298.70	231.69	100.93	2328.79	2305.53	192.72	106.74	171.53	39.98	20.70	1.96	PASS
2424.00†	2396.30	251.64	109.63	2428.77	2403.38	211.24	115.78	171.34	41.47	21.70	1.94	PASS
2524.00†	2493.90	271.60	118.32	2528.76	2501.22	229.76	124.83	171.16	42.97	22.71	1.92	PASS
2624.00†	2591.50	291.56	127.01	2628.75	2599.06	248.29	133.87	170.99	44.46	23.74	1.90	PASS
2724.00†	2689.10	311.51	135.71	2728.74	2696.90	266.81	142.92	170.84	45.95	24.77	1.88	PASS



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Area	COLORADO	Well	MEAD 1
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## CLEARANCE DATA - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Facility: SEC.09-T07N-R66W Slot: SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09) Well: MEAD 2 Threshold Value=1.00

† = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2824.00†	2786.70	331.47	144.40	2828.73	2794.74	285.33	151.97	170.69	47.44	25.82	1.86	PASS
2924.00†	2884.31	351.43	153.10	2928.72	2892.58	303.85	161.01	170.56	48.93	26.87	1.84	PASS
3024.00†	2981.91	371.38	161.79	3028.71	2990.42	322.37	170.06	170.43	50.43	27.94	1.82	PASS
3124.00†	3079.51	391.34	170.48	3128.70	3088.26	340.90	179.10	170.31	51.92	29.01	1.81	PASS
3224.00†	3177.11	411.30	179.18	3228.69	3186.10	359.42	188.15	170.19	53.41	30.09	1.79	PASS
3324.00†	3274.71	431.25	187.87	3328.67	3283.95	377.94	197.19	170.08	54.90	31.17	1.78	PASS
3424.00†	3372.32	451.21	196.57	3428.66	3381.79	396.46	206.24	169.98	56.40	32.26	1.76	PASS
3524.00†	3469.92	471.17	205.26	3528.65	3479.63	414.98	215.28	169.89	57.89	33.35	1.75	PASS
3624.00†	3567.52	491.12	213.95	3628.64	3577.47	433.50	224.33	169.79	59.38	34.44	1.74	PASS
3724.00†	3665.12	511.08	222.65	3728.63	3675.31	452.03	233.37	169.71	60.88	35.54	1.72	PASS
3824.00†	3762.72	531.04	231.34	3828.62	3773.15	470.55	242.42	169.62	62.37	36.65	1.71	PASS
3924.00†	3860.33	550.99	240.04	3928.61	3870.99	489.07	251.47	169.54	63.87	37.76	1.70	PASS
4024.00†	3957.93	570.95	248.73	4028.60	3968.83	507.59	260.51	169.47	65.36	38.87	1.69	PASS
4124.00†	4055.53	590.91	257.42	4128.58	4066.67	526.11	269.56	169.40	66.86	39.98	1.68	PASS
4224.00†	4153.13	610.86	266.12	4228.57	4164.52	544.63	278.60	169.33	68.35	41.09	1.67	PASS
4324.00†	4250.73	630.82	274.81	4328.56	4262.36	563.16	287.65	169.26	69.84	42.21	1.66	PASS
4424.00†	4348.34	650.78	283.51	4428.55	4360.20	581.68	296.69	169.20	71.34	43.33	1.66	PASS
4524.00†	4445.94	670.73	292.20	4528.54	4458.04	600.20	305.74	169.14	72.83	44.45	1.65	PASS
4624.00†	4543.54	690.69	300.89	4628.53	4555.88	618.72	314.78	169.08	74.33	45.58	1.64	PASS
4724.00†	4641.14	710.65	309.59	4728.52	4653.72	637.24	323.83	169.02	75.82	46.70	1.63	PASS
4824.00†	4738.74	730.60	318.28	4828.51	4751.56	655.77	332.87	168.97	77.32	47.83	1.62	PASS
4924.00†	4836.35	750.56	326.98	4928.49	4849.40	674.29	341.92	168.92	78.81	48.96	1.62	PASS
5024.00†	4933.95	770.52	335.67	5028.48	4947.24	692.81	350.97	168.87	80.31	50.09	1.61	PASS
5124.00†	5031.55	790.47	344.36	5128.47	5045.09	711.33	360.01	168.82	81.80	51.22	1.60	PASS
5224.00†	5129.15	810.43	353.06	5228.46	5142.93	729.85	369.06	168.77	83.30	52.36	1.60	PASS
5324.00†	5226.75	830.39	361.75	5328.45	5240.77	748.37	378.10	168.73	84.79	53.49	1.59	PASS
5424.00†	5324.36	850.34	370.45	5428.44	5338.61	766.90	387.15	168.68	86.29	54.63	1.59	PASS
5524.00†	5421.96	870.30	379.14	5528.43	5436.45	785.42	396.19	168.64	87.78	55.76	1.58	PASS
5624.00†	5519.56	890.26	387.83	5628.42	5534.29	803.94	405.24	168.60	89.28	56.90	1.57	PASS
5724.00†	5617.16	910.21	396.53	5728.41	5632.13	822.46	414.28	168.56	90.77	58.04	1.57	PASS



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Operator	EXTRACTION OIL & GAS	Slot	SLOT#01 MEAD 1(1352'FNL & 402'FEL,SEC.09)
Area	COLORADO	Well	MEAD 1
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## CLEARANCE DATA - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Facility: SEC.09-T07N-R66W Slot: SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09) Well: MEAD 2 Threshold Value=1.00

† = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5824.00†	5714.76	930.17	405.22	5828.39	5729.97	840.98	423.33	168.52	92.27	59.18	1.56	PASS
5924.00†	5812.37	950.13	413.92	5928.38	5827.81	859.50	432.37	168.49	93.76	60.32	1.56	PASS
6024.00†	5909.97	970.08	422.61	6028.37	5925.66	878.03	441.42	168.45	95.26	61.46	1.56	PASS
6124.00†	6007.57	990.04	431.30	6128.36	6023.50	896.55	450.47	168.42	96.76	62.60	1.55	PASS
6224.00†	6105.17	1010.00	440.00	6228.35	6121.34	915.07	459.51	168.38	98.25	63.74	1.55	PASS
6324.00†	6202.77	1029.95	448.69	6328.34	6219.18	933.59	468.56	168.35	99.75	64.89	1.54	PASS
6424.00†	6300.38	1049.91	457.39	6428.33	6317.02	952.11	477.60	168.32	101.24	66.03	1.54	PASS
6524.00†	6397.98	1069.87	466.08	6528.32	6414.86	970.63	486.65	168.29	102.74	67.17	1.53	PASS
6624.00†	6495.58	1089.82	474.77	6628.30	6512.70	989.16	495.69	168.26	104.23	68.32	1.53	PASS
6724.00†	6593.18	1109.78	483.47	6728.29	6610.54	1007.68	504.74	168.23	105.73	69.46	1.53	PASS
6824.00†	6690.78	1129.74	492.16	6829.09	6709.21	1026.35	513.44	168.37	107.14	70.46	1.53	PASS
6924.00†	6788.39	1149.69	500.86	6931.07	6809.21	1045.24	509.70	175.16	106.88	67.19	1.60	PASS
7024.00†	6885.99	1169.65	509.55	7025.82	6900.22	1062.36	490.12	190.27	109.96	60.82	1.82	PASS
7034.11	6895.86	1171.67	510.43	7034.84	6908.68	1063.95	487.46	192.04	110.88	60.31	1.85	PASS
7124.00†	6983.82	1189.71	511.20	7112.56	6979.72	1077.28	459.04	204.89	124.01	59.18	2.11	PASS
7224.00†	7080.42	1209.66	495.58	7195.26	7050.42	1090.49	418.37	212.94	145.13	61.34	2.38	PASS
7324.00†	7172.87	1228.90	463.06	7274.82	7112.35	1102.01	369.87	216.30	168.67	62.93	2.70	PASS
7424.00†	7258.36	1246.84	414.64	7351.93	7165.51	1111.86	314.98	216.44	191.77	62.75	3.08	PASS
7524.00†	7334.29	1262.93	351.79	7427.13	7209.94	1120.04	254.92	214.13	212.76	61.42	3.49	PASS
7624.00†	7398.36	1276.70	276.42	7500.89	7245.65	1126.55	190.77	209.70	230.65	59.60	3.90	PASS
7724.00†	7448.60	1287.71	190.81	7573.59	7272.64	1131.41	123.50	203.30	244.79	57.87	4.26	PASS
7824.00†	7483.51	1295.63	97.57	7645.55	7290.92	1134.61	54.02	195.13	254.80	56.68	4.53	PASS
7924.00†	7502.02	1300.23	-0.46	7717.06	7300.46	1136.15	-16.79	185.68	260.42	56.36	4.66	PASS
7983.05	7505.00	1301.33	-59.40	7759.20	7302.00	1136.29	-58.89	179.82	261.62	56.30	4.69	PASS
8024.00†	7505.00	1301.66	-100.35	7800.06	7302.00	1136.14	-99.75	179.79	261.93	56.21	4.66	PASS
8124.00†	7505.00	1302.48	-200.35	7900.05	7302.00	1135.78	-199.74	179.79	262.68	57.57	4.56	PASS
8224.00†	7505.00	1303.30	-300.34	8000.04	7302.00	1135.41	-299.73	179.79	263.43	59.38	4.44	PASS
8324.00†	7505.00	1304.12	-400.34	8100.03	7302.00	1135.05	-399.72	179.79	264.19	61.61	4.29	PASS
8424.00†	7505.00	1304.93	-500.34	8200.03	7302.00	1134.68	-499.72	179.79	264.94	64.24	4.12	PASS
8524.00†	7505.00	1305.75	-600.33	8300.02	7302.00	1134.32	-599.71	179.79	265.71	67.83	3.92	PASS



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Facility	SEC.09-T07N-R66W		

## CLEARANCE DATA - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Facility: SEC.09-T07N-R66W Slot: SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09) Well: MEAD 2 Threshold Value=1.00

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Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8624.00†	7505.00	1306.57	-700.33	8400.01	7302.00	1133.95	-699.70	179.79	266.47	70.54	3.78	PASS
8724.00†	7505.00	1307.39	-800.33	8500.01	7302.00	1133.59	-799.69	179.79	267.24	74.13	3.61	PASS
8824.00†	7505.00	1308.21	-900.32	8600.00	7302.00	1133.23	-899.69	179.79	268.01	77.97	3.44	PASS
8924.00†	7505.00	1309.03	-1000.32	8699.99	7302.00	1132.86	-999.68	179.79	268.78	82.04	3.28	PASS
9024.00†	7505.00	1309.84	-1100.32	8799.99	7302.00	1132.50	-1099.67	179.79	269.56	86.31	3.12	PASS
9124.00†	7505.00	1310.66	-1200.31	8899.98	7302.00	1132.13	-1199.66	179.79	270.34	90.75	2.98	PASS
9224.00†	7505.00	1311.48	-1300.31	8999.97	7302.00	1131.77	-1299.65	179.79	271.12	95.35	2.84	PASS
9324.00†	7505.00	1312.30	-1400.31	9099.96	7302.00	1131.41	-1399.65	179.79	271.90	100.09	2.72	PASS
9424.00†	7505.00	1313.12	-1500.30	9199.96	7302.00	1131.04	-1499.64	179.79	272.69	104.96	2.60	PASS
9524.00†	7505.00	1313.94	-1600.30	9299.95	7302.00	1130.68	-1599.63	179.79	273.48	109.94	2.49	PASS
9624.00†	7505.00	1314.75	-1700.30	9399.94	7302.00	1130.31	-1699.62	179.79	274.28	115.03	2.38	PASS
9724.00†	7505.00	1315.57	-1800.29	9499.94	7302.00	1129.95	-1799.62	179.79	275.07	120.21	2.29	PASS
9824.00†	7505.00	1316.39	-1900.29	9599.93	7302.00	1129.58	-1899.61	179.79	275.87	125.48	2.20	PASS
9924.00†	7505.00	1317.21	-2000.29	9699.92	7302.00	1129.22	-1999.60	179.79	276.68	130.83	2.11	PASS
10024.00†	7505.00	1318.03	-2100.28	9799.92	7302.00	1128.86	-2099.59	179.79	277.48	136.25	2.04	PASS
10124.00†	7505.00	1318.85	-2200.28	9899.91	7302.00	1128.49	-2199.59	179.79	278.29	141.74	1.96	PASS
10224.00†	7505.00	1319.66	-2300.28	9999.90	7302.00	1128.13	-2299.58	179.79	279.10	147.30	1.89	PASS
10324.00†	7505.00	1320.48	-2400.27	10099.89	7302.00	1127.76	-2399.57	179.79	279.91	152.92	1.83	PASS
10424.00†	7505.00	1321.30	-2500.27	10199.89	7302.00	1127.40	-2499.56	179.79	280.73	158.60	1.77	PASS
10524.00†	7505.00	1322.12	-2600.27	10299.88	7302.00	1127.03	-2599.56	179.79	281.54	164.33	1.71	PASS
10624.00†	7505.00	1322.94	-2700.26	10399.87	7302.00	1126.67	-2699.55	179.79	282.37	170.11	1.66	PASS
10724.00†	7505.00	1323.76	-2800.26	10499.87	7302.00	1126.31	-2799.54	179.79	283.19	175.94	1.61	PASS
10824.00†	7505.00	1324.57	-2900.26	10599.86	7302.00	1125.94	-2899.53	179.79	284.01	181.82	1.56	PASS
10924.00†	7505.00	1325.39	-3000.25	10699.85	7302.00	1125.58	-2999.52	179.79	284.84	187.75	1.52	PASS
11024.00†	7505.00	1326.21	-3100.25	10799.85	7302.00	1125.21	-3099.52	179.79	285.67	193.71	1.47	PASS
11124.00†	7505.00	1327.03	-3200.25	10899.84	7302.00	1124.85	-3199.51	179.79	286.51	199.72	1.43	PASS
11224.00†	7505.00	1327.85	-3300.24	10999.83	7302.00	1124.49	-3299.50	179.79	287.34	205.76	1.40	PASS
11324.00†	7505.00	1328.66	-3400.24	11099.82	7302.00	1124.12	-3399.49	179.79	288.18	211.84	1.36	PASS
11424.00†	7505.00	1329.48	-3500.24	11199.82	7302.00	1123.76	-3499.49	179.79	289.02	217.96	1.33	PASS
11524.00†	7505.00	1330.30	-3600.23	11299.81	7302.00	1123.39	-3599.48	179.79	289.86	224.12	1.29	PASS





# Clearance Report

MEAD 1 (REV-B.0) PWP

Closest Approach

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#01 MEAD 1(1352'FNL & 402'FEL,SEC.09)
Area	COLORADO	Well	MEAD 1
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## CLEARANCE DATA - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Facility: SEC.09-T07N-R66W Slot: SLOT#02 MEAD 2(1378'FNL & 403'FEL,SEC.09) Well: MEAD 2 Threshold Value=1.00

† = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11624.00†	7505.00	1331.12	-3700.23	11399.80	7302.00	1123.03	-3699.47	179.79	290.71	230.31	1.26	PASS
11724.00†	7505.00	1331.94	-3800.23	11499.80	7302.00	1122.66	-3799.46	179.79	291.56	236.53	1.23	PASS
11824.00†	7505.00	1332.76	-3900.22	11599.79	7302.00	1122.30	-3899.46	179.79	292.41	242.78	1.20	PASS
11924.00†	7505.00	1333.57	-4000.22	11699.78	7302.00	1121.94	-3999.45	179.79	293.26	249.07	1.18	PASS
12024.00†	7505.00	1334.39	-4100.22	11799.78	7302.00	1121.57	-4099.44	179.79	294.11	255.39	1.15	PASS
12124.00†	7505.00	1335.21	-4200.21	11899.77	7302.00	1121.21	-4199.43	179.79	294.97	261.73	1.13	PASS
12224.00†	7505.00	1336.03	-4300.21	11999.76	7302.00	1120.84	-4299.43	179.79	295.83	268.11	1.10	PASS
12324.00†	7505.00	1336.85	-4400.21	12099.75	7302.00	1120.48	-4399.42	179.79	296.69	274.51	1.08	PASS
12395.98	7505.00	1337.44	-4472.18	12171.73	7302.00	1120.22	-4471.39	179.79	297.31	279.14	1.07	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) 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]
7in Casing Intermediate	24.00	7759.43	7735.43	24.00	7302.00	-16.04	-0.14	338.32	-18.09

## SURVEY PROGRAM - Offset Wellbore: MEAD 2 PWB Offset Wellpath: MEAD 2 (REV-B.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	18000.00	NaviTrak (Standard)		MEAD 2 PWB



# Clearance Report

MEAD 1 (REV-B.0) PWP

Closest Approach

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#01 MEAD 1(1352'FNL & 402'FEL,SEC.09)
Area	COLORADO	Well	MEAD 1
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	MEAD 1 PWB
Facility	SEC.09-T07N-R66W		

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: MEAD 2 PWB    Offset Wellpath: MEAD 2 (REV-B.0) PWP

MD Reference: <b>RIG (RKB)</b>	<i>Offset TVD &amp; local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)</i>
Ellipse Start MD	<b>24.00ft</b>