

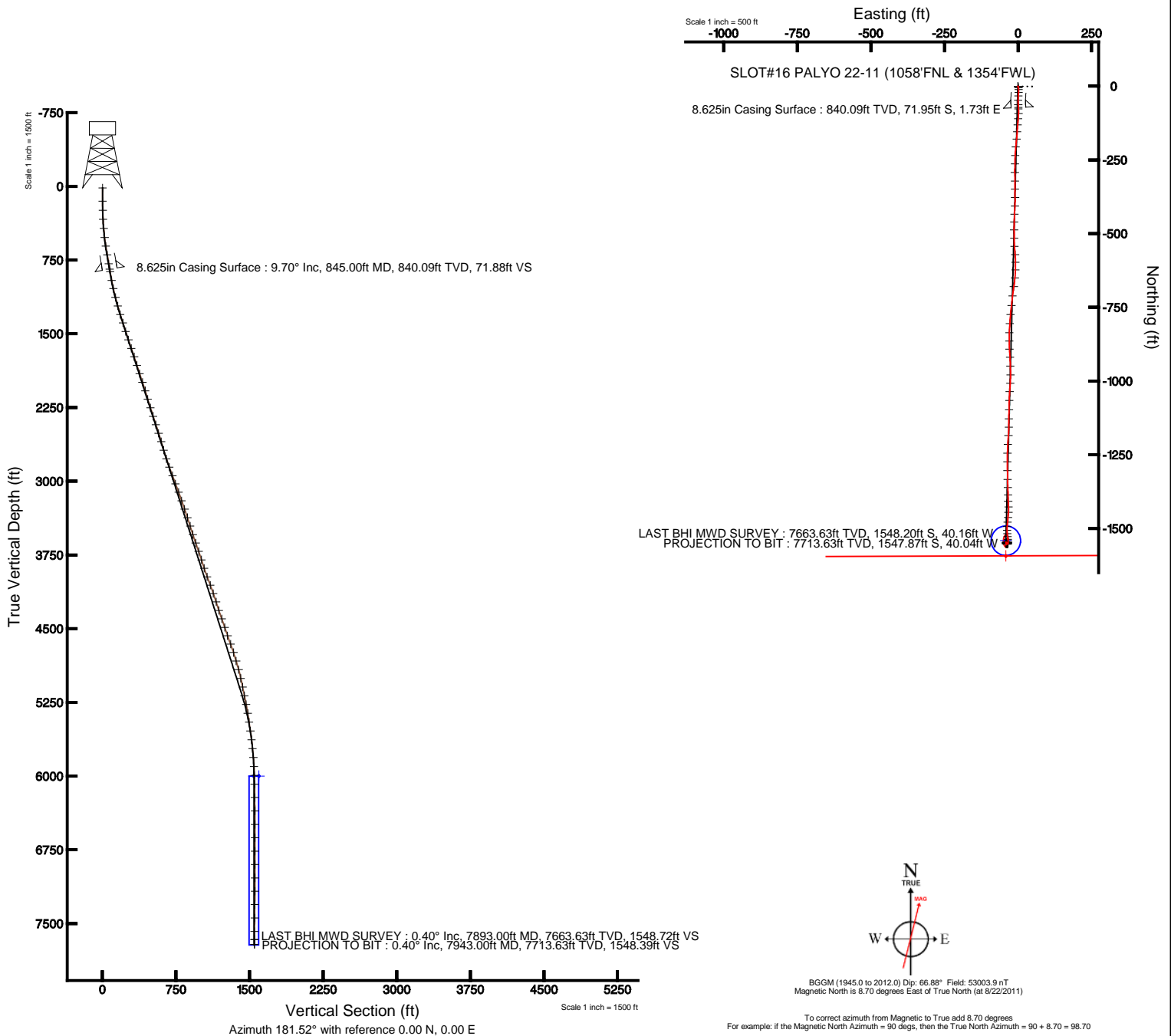


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL)  
Field: WELD COUNTY (KERR MCGEE) Well: PALYO 22-11  
Facility: SEC.11-T2N-R65W Wellbore: PALYO 22-11 PWB



Plot reference wellpath is PALYO 22-11 (REV-A.0) PWB	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (001), US feet
True vertical depths are referenced to XTREME 12 (RKB)	North Reference: True north
Measured depths are referenced to XTREME 12 (RKB)	Scale: True distance
XTREME 12 (RKB) to Mean Sea Level: 4969 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL)): 0 feet	Created by: cookdorm on 11/4/2011
Coordinates are in feet referenced to Slot	





# Actual Wellpath Report

PALYO 22-11 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL)
Area	COLORADO	Well	PALYO 22-11
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PALYO 22-11 AWB
Facility	SEC.11-T2N-R65W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	11/4/2011 at 3:31:12 PM
Convergence at slot	0.56° East	Database/Source file	WA_Denver/PALYO_22-11_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	3617.54	-1929.76	3241594.74	1301423.48	40°09'27.252"N	104°38'08.246"W
Facility Reference Pt			3243559.87	1297825.24	40°08'51.504"N	104°37'43.392"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

## WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 12 (RKB) to Facility Vertical Datum	4869.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	4869.00ft
Vertical Reference Pt	XTREME 12 (RKB)	XTREME 12 (RKB) to Mud Line at Slot (SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL))	4869.00ft
MD Reference Pt	XTREME 12 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	181.52°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	PALYO 22-11 AWB
Facility	SEC.11-T2N-R65W		

## WELLPATH DATA (84 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	104.600	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	104.600	15.00	0.00	0.00	0.00	0.00	
149.00	0.400	104.600	149.00	0.11	-0.12	0.45	0.30	
242.00	1.300	161.900	241.99	1.17	-1.20	1.09	1.22	
334.00	3.100	168.900	333.92	4.58	-4.64	1.90	1.97	
427.00	5.000	178.700	426.68	11.09	-11.16	2.47	2.17	
518.00	7.000	182.600	517.18	20.59	-20.66	2.31	2.24	
608.00	8.700	184.400	606.33	32.87	-32.93	1.54	1.91	
699.00	9.800	179.500	696.15	47.49	-47.53	1.08	1.49	
790.00	9.500	178.400	785.86	62.73	-62.78	1.36	0.39	
871.00	9.800	176.300	865.72	76.27	-76.35	1.99	0.57	
962.00	10.600	181.900	955.28	92.35	-92.44	2.21	1.40	
1047.00	12.700	184.700	1038.52	109.50	-109.57	1.19	2.56	
1138.00	14.500	184.700	1126.97	130.86	-130.89	-0.57	1.98	
1229.00	15.000	183.700	1214.97	154.00	-154.00	-2.26	0.62	
1320.00	17.100	185.800	1302.42	179.12	-179.06	-4.37	2.39	
1410.00	18.100	185.800	1388.20	206.25	-206.14	-7.12	1.11	
1501.00	18.500	182.300	1474.60	234.79	-234.63	-9.13	1.28	
1592.00	18.200	181.600	1560.98	263.43	-263.26	-10.11	0.41	
1683.00	18.900	179.500	1647.25	292.38	-292.20	-10.37	1.06	
1774.00	18.200	179.800	1733.52	321.31	-321.15	-10.20	0.78	
1864.00	18.100	179.500	1819.04	349.33	-349.19	-10.03	0.15	
1955.00	18.200	178.700	1905.52	377.65	-377.53	-9.58	0.30	
2046.00	18.600	183.300	1991.87	406.35	-406.23	-10.09	1.65	
2137.00	17.000	182.600	2078.51	434.16	-434.01	-11.53	1.77	
2227.00	16.900	181.900	2164.60	460.40	-460.23	-12.56	0.25	
2318.00	18.100	179.500	2251.39	487.75	-487.58	-12.88	1.54	
2409.00	17.300	179.800	2338.08	515.40	-515.25	-12.71	0.88	
2500.00	18.500	175.900	2424.68	543.30	-543.18	-11.63	1.86	
2591.00	17.400	174.500	2511.25	571.17	-571.13	-9.29	1.30	
2681.00	16.400	180.200	2597.36	597.23	-597.23	-8.04	2.15	
2772.00	16.900	181.600	2684.55	623.30	-623.30	-8.46	0.70	
2863.00	18.400	185.300	2771.27	650.86	-650.82	-10.16	2.06	
2954.00	19.400	188.600	2857.36	680.19	-680.07	-13.74	1.61	
3045.00	21.500	186.800	2942.62	711.80	-711.57	-17.98	2.41	
3135.00	20.300	187.200	3026.70	743.76	-743.44	-21.89	1.34	
3226.00	19.900	184.400	3112.16	774.94	-774.54	-25.05	1.15	
3317.00	20.300	184.400	3197.62	806.17	-805.72	-27.45	0.44	
3408.00	18.800	180.900	3283.37	836.60	-836.13	-28.89	2.09	
3499.00	17.800	180.900	3369.77	865.17	-864.70	-29.34	1.10	
3589.00	17.500	176.300	3455.53	892.40	-891.96	-28.69	1.58	
3680.00	18.300	176.600	3542.13	920.26	-919.87	-26.96	0.88	
3771.00	19.400	178.400	3628.25	949.59	-949.24	-25.69	1.37	
3862.00	19.100	179.800	3714.16	979.56	-979.24	-25.21	0.60	
3952.00	18.200	183.300	3799.44	1008.33	-1008.00	-25.97	1.60	



# Actual Wellpath Report

PALYO 22-11 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL)
Area	COLORADO	Well	PALYO 22-11
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PALYO 22-11 AWB
Facility	SEC.11-T2N-R65W		

## WELLPATH DATA (84 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4043.00	18.000	184.700	3885.93	1036.57	-1036.20	-27.94	0.53	
4134.00	20.200	181.200	3971.92	1066.33	-1065.92	-29.42	2.72	
4225.00	20.900	181.200	4057.13	1098.27	-1097.86	-30.09	0.77	
4316.00	18.800	181.200	4142.72	1129.17	-1128.75	-30.74	2.31	
4406.00	17.600	180.200	4228.21	1157.27	-1156.86	-31.09	1.38	
4497.00	18.500	184.000	4314.74	1185.45	-1185.02	-32.14	1.63	
4588.00	20.000	184.000	4400.65	1215.43	-1214.95	-34.24	1.65	
4679.00	18.500	180.500	4486.56	1245.41	-1244.91	-35.45	2.08	
4770.00	19.000	180.500	4572.73	1274.66	-1274.16	-35.70	0.55	
4860.00	20.400	178.700	4657.46	1304.97	-1304.49	-35.48	1.70	
4951.00	18.000	179.500	4743.39	1334.87	-1334.41	-34.99	2.65	
5042.00	17.000	177.000	4830.18	1362.19	-1361.76	-34.17	1.37	
5133.00	15.000	179.800	4917.65	1387.22	-1386.82	-33.44	2.36	
5224.00	12.900	177.000	5005.97	1409.12	-1408.74	-32.86	2.42	
5314.00	11.500	177.000	5093.93	1428.08	-1427.74	-31.87	1.56	
5405.00	11.400	184.700	5183.12	1446.10	-1445.76	-32.13	1.68	
5496.00	11.200	184.400	5272.36	1463.91	-1463.54	-33.55	0.23	
5587.00	9.300	187.200	5361.91	1480.06	-1479.64	-35.15	2.16	
5678.00	8.800	183.300	5451.77	1494.33	-1493.89	-36.47	0.87	
5768.00	8.000	179.500	5540.81	1507.47	-1507.02	-36.81	1.08	
5859.00	6.600	173.100	5631.07	1518.97	-1518.55	-36.13	1.78	
5950.00	5.900	174.200	5721.53	1528.78	-1528.39	-35.02	0.78	
6041.00	5.400	171.000	5812.09	1537.63	-1537.28	-33.88	0.65	
6132.00	3.500	177.000	5902.81	1544.61	-1544.28	-33.07	2.15	
6222.00	1.300	193.200	5992.72	1548.35	-1548.02	-33.16	2.53	
6313.00	1.000	193.500	6083.71	1550.14	-1549.79	-33.58	0.33	
6449.00	0.600	194.500	6219.69	1552.00	-1551.64	-34.03	0.29	
6586.00	0.300	217.700	6356.69	1552.98	-1552.62	-34.43	0.25	
6722.00	0.400	222.600	6492.68	1553.63	-1553.25	-34.97	0.08	
6858.00	0.200	227.100	6628.68	1554.15	-1553.76	-35.47	0.15	
6994.00	0.300	283.000	6764.68	1554.25	-1553.84	-35.99	0.18	
7130.00	1.100	267.300	6900.67	1554.27	-1553.82	-37.64	0.60	
7266.00	0.500	285.200	7036.66	1554.23	-1553.73	-39.51	0.47	
7402.00	0.500	353.100	7172.65	1553.50	-1552.98	-40.16	0.41	
7538.00	0.500	342.500	7308.65	1552.35	-1551.83	-40.41	0.07	
7675.00	0.700	4.400	7445.64	1550.95	-1550.42	-40.52	0.22	
7811.00	0.600	10.400	7581.63	1549.42	-1548.89	-40.33	0.09	
7893.00	0.400	19.800	7663.63	1548.72	-1548.20	-40.16	0.26	LAST BHI MWD SURVEY
7943.00	0.400	19.800	7713.63	1548.39	-1547.87	-40.04	0.00	PROJECTION TO BIT



# Actual Wellpath Report

PALYO 22-11 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PALYO 22-11 (1058'FNL & 1354'FWL)
Area	COLORADO	Well	PALYO 22-11
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PALYO 22-11 AWB
Facility	SEC.11-T2N-R65W		

## HOLE & CASING SECTIONS - Ref Wellbore: PALYO 22-11 AWB Ref Wellpath: PALYO 22-11 AWP

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]
12.25in Open Hole	15.00	845.00	830.00	15.00	840.09	0.00	0.00	-71.95	1.73
8.625in Casing Surface	15.00	845.00	830.00	15.00	840.09	0.00	0.00	-71.95	1.73
7.875in Open Hole	845.00	7943.00	7098.00	840.09	7713.63	-71.95	1.73	-1547.87	-40.04

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PALYO 22-11 GEO TARGET (2600'FNL & 1320'FWL, REV-1)		6000.00	-1542.09	-40.84	3241568.93	1299881.14	40°09'12.013"N	104°38'08.772"W	circle
PALYO 22-11 HARDLINE 50'S OF GEO TARGET		6000.00	-1594.07	-40.84	3241569.44	1299829.16	40°09'11.499"N	104°38'08.772"W	point

## WELLPATH COMPOSITION - Ref Wellbore: PALYO 22-11 AWB Ref Wellpath: PALYO 22-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	7893.00	NaviTrak (Standard)	BHI MWD SURVEYS <153-7893>	PALYO 22-11 AWB
7893.00	7943.00	Blind Drilling (std)	Projection to bit	PALYO 22-11 AWB



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	PALYO 22-11 AWB
Facility	SEC.11-T2N-R65W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7893.00	0.400	19.800	7663.63	LAST BHI MWD SURVEY
7943.00	0.400	19.800	7713.63	PROJECTION TO BIT