

ANADARKO PETROLEUM



Location: COLORADO Slot: SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
 Field: WELD COUNTY (ANADARKO) Well: BELLA FEDERAL 36-7
 Facility: SEC.07-T3N-R66W Wellbore: BELLA FEDERAL 36-7 PWB

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	15.00	0.000	239.168	15.00	0.00	0.00	0.00	0.00
End of Tangent	1000.00	0.000	239.168	1000.00	0.00	0.00	0.00	0.00
End of Build (S)	2150.00	23.000	239.168	2119.36	-116.72	-195.55	2.00	227.74
End of Tangent (S)	5095.39	23.000	239.168	4830.61	-706.56	-1183.76	0.00	1378.59
End of Drop (S)	6245.39	0.000	239.168	5949.97	-823.28	-1379.31	2.00	1606.33
End of Tangent	8210.42	0.000	239.168	7915.00	-823.28	-1379.31	0.00	1606.33

Location Information

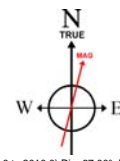
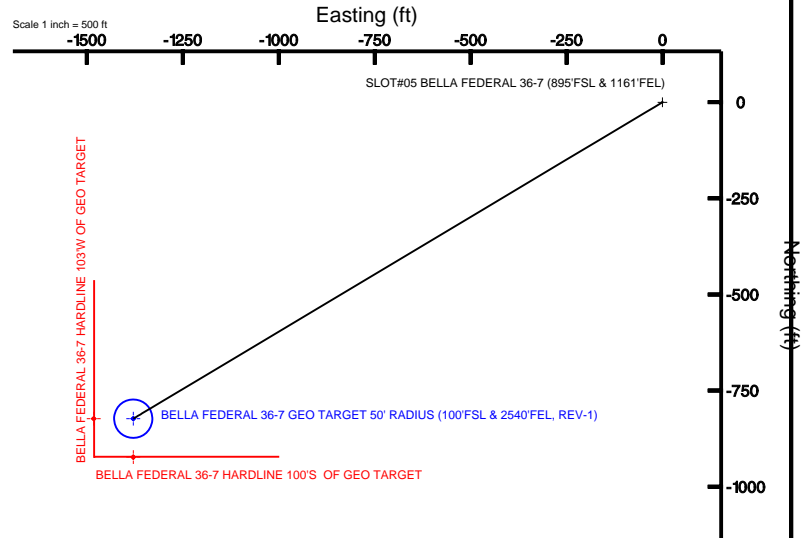
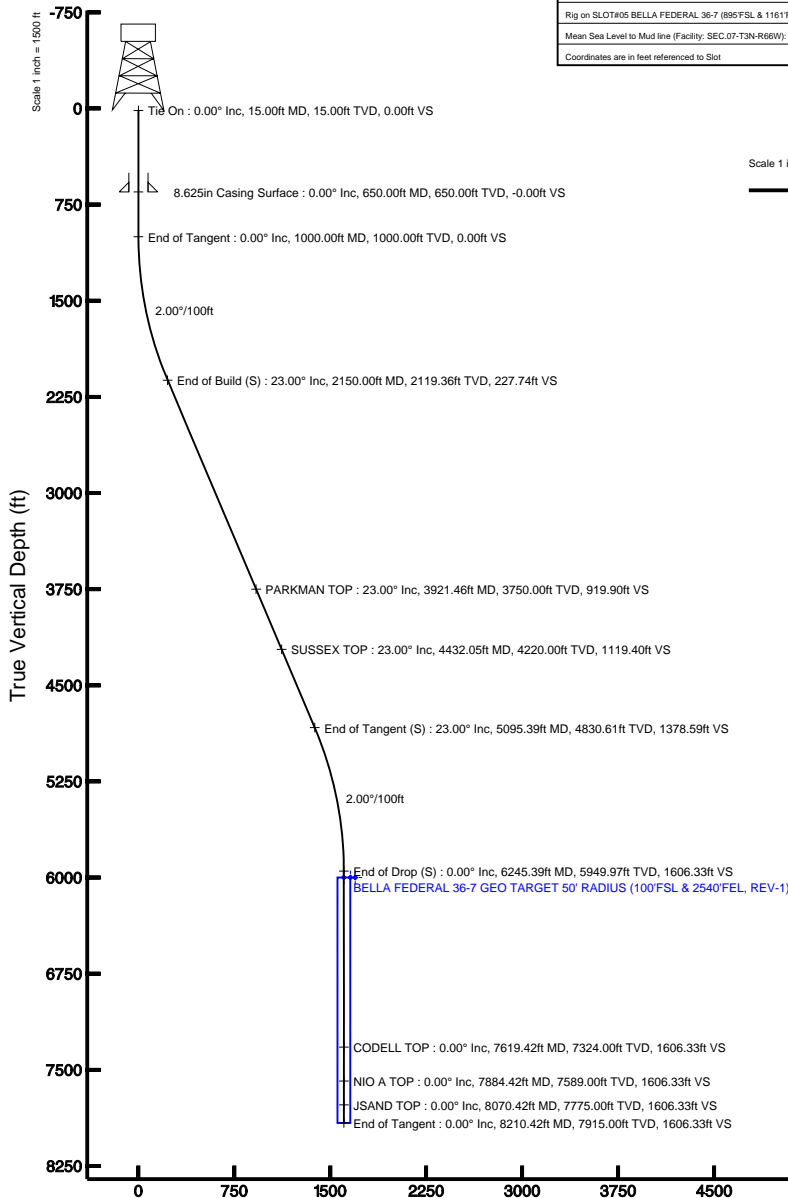
Facility Name	Grid East (USF)	Grid North (USF)	Latitude	Longitude		
SEC.07-T3N-R66W	3190294.846	1331460.620	40°14'28.500"N	104°49'05.988"W		
Slot	Local N (ft)	Local E (ft)	Grid East (USF)	Grid North (USF)	Latitude	Longitude
SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)	-2495.45	957.67	3191271.624	1328972.719	40°14'03.840"N	104°48'53.640"W
Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT) to Mud line (Facility: SEC.07-T3N-R66W)						4855ft
Mean Sea Level to Mud line (Facility: SEC.07-T3N-R66W)						0ft
Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT) to Mean Sea Level						4855ft

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USF)	Grid North (USF)	Latitude	Longitude
BELLA FEDERAL 36-7 GEO TARGET 50' RADIUS (100'FSL & 2540'FEL, REV-1)	6000.00	-823.28	-1379.31	3189896.78	1328138.84	40°13'55.704"N	104°49'11.424"W	
BELLA FEDERAL 36-7 HARDLINE 100'S OF GEO TARGET	6000.00	-823.28	-1379.31	3189899.55	1328238.85	40°13'54.716"N	104°49'11.424"W	
BELLA FEDERAL 36-7 HARDLINE 103'W OF GEO TARGET	6000.00	-823.28	-1482.31	3189796.79	1328138.05	40°13'55.704"N	104°49'12.752"W	

Plot reference wellpath is BELLA FEDERAL 36-7 (REV-A.0) PWP

True vertical depths are referenced to Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT)	North Reference: True north
Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT) to Mean Sea Level: 4855 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.07-T3N-R66W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdam on 8/14/2009



BGGM (1945.0 to 2010.0) Dip: 67.00° Field: 53267.8 nT
 Magnetic North is 9.09 degrees East of True North (at 8/14/2009)

To correct azimuth from Magnetic to True add 9.09 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.09 = 99.09

Vertical Section (ft) Azimuth 239.17° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500 ft

Planned Wellpath Report

BELLA FEDERAL 36-7 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANADARKO PETROLEUM	Slot	SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
Area	COLORADO	Well	BELLA FEDERAL 36-7
Field	WELD COUNTY (ANADARKO)	Wellbore	BELLA FEDERAL 36-7 PWB
Facility	SEC.07-T3N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Cookdanm
Scale	0.999957	Report Generated	8/14/2009 at 5:04:30 PM
Convergence at slot	0.44° East	Database/Source file	WellArchitect_Denver/BELLA_FEDERAL_36-7_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-2495.45	957.67	3191271.62	1328972.72	40°14'03.840"N	104°48'53.640"W
Facility Reference Pt			3190294.85	1331460.62	40°14'28.500"N	104°49'05.988"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM		
Calculation method	Minimum curvature	Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT) to Facility Vertical Datum
Horizontal Reference Pt	Slot	Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT) to Mean Sea Level
Vertical Reference Pt	Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT)	Facility Vertical Datum to Mud Line (Fac)
MD Reference Pt	Rig on SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL) (RT)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANADARKO PETROLEUM	Slot	SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
Area	COLORADO	Well	BELLA FEDERAL 36-7
Field	WELD COUNTY (ANADARKO)	Wellbore	BELLA FEDERAL 36-7 PWB
Facility	SEC.07-T3N-R66W		

WELLPATH DATA (93 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	239.168	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	239.168	15.00	0.00	0.00	0.00	0.00	Tie On
115.00†	0.000	239.168	115.00	0.00	0.00	0.00	0.00	
215.00†	0.000	239.168	215.00	0.00	0.00	0.00	0.00	
315.00†	0.000	239.168	315.00	0.00	0.00	0.00	0.00	
415.00†	0.000	239.168	415.00	0.00	0.00	0.00	0.00	
515.00†	0.000	239.168	515.00	0.00	0.00	0.00	0.00	
615.00†	0.000	239.168	615.00	0.00	0.00	0.00	0.00	
715.00†	0.000	239.168	715.00	0.00	0.00	0.00	0.00	
815.00†	0.000	239.168	815.00	0.00	0.00	0.00	0.00	
915.00†	0.000	239.168	915.00	0.00	0.00	0.00	0.00	
1000.00	0.000	239.168	1000.00	0.00	0.00	0.00	0.00	End of Tangent
1015.00†	0.300	239.168	1015.00	0.04	-0.02	-0.03	2.00	
1115.00†	2.300	239.168	1114.97	2.31	-1.18	-1.98	2.00	
1215.00†	4.300	239.168	1214.80	8.06	-4.13	-6.92	2.00	
1315.00†	6.300	239.168	1314.37	17.30	-8.87	-14.86	2.00	
1415.00†	8.300	239.168	1413.55	30.01	-15.38	-25.77	2.00	
1515.00†	10.300	239.168	1512.23	46.17	-23.66	-39.64	2.00	
1615.00†	12.300	239.168	1610.29	65.76	-33.70	-56.47	2.00	
1715.00†	14.300	239.168	1707.60	88.76	-45.49	-76.22	2.00	
1815.00†	16.300	239.168	1804.05	115.15	-59.02	-98.88	2.00	
1915.00†	18.300	239.168	1899.52	144.89	-74.26	-124.41	2.00	
2015.00†	20.300	239.168	1993.90	177.94	-91.20	-152.79	2.00	
2115.00†	22.300	239.168	2087.06	214.26	-109.81	-183.98	2.00	
2150.00	23.000	239.168	2119.36	227.74	-116.72	-195.55	2.00	End of Build (S)
2215.00†	23.000	239.168	2179.20	253.13	-129.74	-217.36	0.00	
2315.00†	23.000	239.168	2271.25	292.21	-149.76	-250.91	0.00	
2415.00†	23.000	239.168	2363.30	331.28	-169.79	-284.46	0.00	
2515.00†	23.000	239.168	2455.35	370.35	-189.82	-318.01	0.00	
2615.00†	23.000	239.168	2547.40	409.43	-209.84	-351.56	0.00	
2715.00†	23.000	239.168	2639.45	448.50	-229.87	-385.11	0.00	
2815.00†	23.000	239.168	2731.50	487.57	-249.89	-418.67	0.00	
2915.00†	23.000	239.168	2823.55	526.65	-269.92	-452.22	0.00	
3015.00†	23.000	239.168	2915.60	565.72	-289.95	-485.77	0.00	
3115.00†	23.000	239.168	3007.65	604.79	-309.97	-519.32	0.00	
3215.00†	23.000	239.168	3099.70	643.87	-330.00	-552.87	0.00	
3315.00†	23.000	239.168	3191.75	682.94	-350.02	-586.42	0.00	
3415.00†	23.000	239.168	3283.80	722.01	-370.05	-619.97	0.00	
3515.00†	23.000	239.168	3375.85	761.08	-390.07	-653.52	0.00	
3615.00†	23.000	239.168	3467.90	800.16	-410.10	-687.07	0.00	
3715.00†	23.000	239.168	3559.95	839.23	-430.13	-720.62	0.00	
3815.00†	23.000	239.168	3652.00	878.30	-450.15	-754.18	0.00	
3915.00†	23.000	239.168	3744.05	917.38	-470.18	-787.73	0.00	
3921.46†	23.000	239.168	3750.00	919.90	-471.47	-789.89	0.00	PARKMAN TOP
4015.00†	23.000	239.168	3836.10	956.45	-490.20	-821.28	0.00	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANADARKO PETROLEUM	Slot	SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
Area	COLORADO	Well	BELLA FEDERAL 36-7
Field	WELD COUNTY (ANADARKO)	Wellbore	BELLA FEDERAL 36-7 PWB
Facility	SEC.07-T3N-R66W		

WELLPATH DATA (93 stations) † = interpolated/extrapolated station									
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments	
4115.00†	23.000	239.168	3928.15	995.52	-510.23	-854.83	0.00		
4215.00†	23.000	239.168	4020.20	1034.60	-530.26	-888.38	0.00		
4315.00†	23.000	239.168	4112.26	1073.67	-550.28	-921.93	0.00		
4415.00†	23.000	239.168	4204.31	1112.74	-570.31	-955.48	0.00		
4432.05†	23.000	239.168	4220.00	1119.40	-573.72	-961.20	0.00		SUSSEX TOP
4515.00†	23.000	239.168	4296.36	1151.82	-590.33	-989.03	0.00		
4615.00†	23.000	239.168	4388.41	1190.89	-610.36	-1022.58	0.00		
4715.00†	23.000	239.168	4480.46	1229.96	-630.39	-1056.13	0.00		
4815.00†	23.000	239.168	4572.51	1269.04	-650.41	-1089.69	0.00		
4915.00†	23.000	239.168	4664.56	1308.11	-670.44	-1123.24	0.00		
5015.00†	23.000	239.168	4756.61	1347.18	-690.46	-1156.79	0.00		
5095.39	23.000	239.168	4830.61	1378.59	-706.56	-1183.76	0.00		End of Tangent (S)
5115.00†	22.608	239.168	4848.69	1386.19	-710.46	-1190.29	2.00		
5215.00†	20.608	239.168	4941.65	1423.02	-729.33	-1221.90	2.00		
5315.00†	18.608	239.168	5035.85	1456.57	-746.53	-1250.72	2.00		
5415.00†	16.608	239.168	5131.16	1486.82	-762.03	-1276.69	2.00		
5515.00†	14.608	239.168	5227.47	1513.72	-775.82	-1299.79	2.00		
5615.00†	12.608	239.168	5324.66	1537.25	-787.88	-1319.99	2.00		
5715.00†	10.608	239.168	5422.61	1557.37	-798.19	-1337.27	2.00		
5815.00†	8.608	239.168	5521.20	1574.06	-806.74	-1351.60	2.00		
5915.00†	6.608	239.168	5620.31	1587.30	-813.53	-1362.97	2.00		
6015.00†	4.608	239.168	5719.83	1597.07	-818.54	-1371.36	2.00		
6115.00†	2.608	239.168	5819.63	1603.36	-821.76	-1376.76	2.00		
6215.00†	0.608	239.168	5919.58	1606.17	-823.20	-1379.17	2.00		
6245.39	0.000	239.168	5949.97†	1606.33	-823.28	-1379.31	2.00		End of Drop (S)
6315.00†	0.000	239.168	6019.58	1606.33	-823.28	-1379.31	0.00		
6415.00†	0.000	239.168	6119.58	1606.33	-823.28	-1379.31	0.00		
6515.00†	0.000	239.168	6219.58	1606.33	-823.28	-1379.31	0.00		
6615.00†	0.000	239.168	6319.58	1606.33	-823.28	-1379.31	0.00		
6715.00†	0.000	239.168	6419.58	1606.33	-823.28	-1379.31	0.00		
6815.00†	0.000	239.168	6519.58	1606.33	-823.28	-1379.31	0.00		
6915.00†	0.000	239.168	6619.58	1606.33	-823.28	-1379.31	0.00		
7015.00†	0.000	239.168	6719.58	1606.33	-823.28	-1379.31	0.00		
7115.00†	0.000	239.168	6819.58	1606.33	-823.28	-1379.31	0.00		
7215.00†	0.000	239.168	6919.58	1606.33	-823.28	-1379.31	0.00		
7315.00†	0.000	239.168	7019.58	1606.33	-823.28	-1379.31	0.00		
7415.00†	0.000	239.168	7119.58	1606.33	-823.28	-1379.31	0.00		
7515.00†	0.000	239.168	7219.58	1606.33	-823.28	-1379.31	0.00		
7615.00†	0.000	239.168	7319.58	1606.33	-823.28	-1379.31	0.00		
7619.42†	0.000	239.168	7324.00	1606.33	-823.28	-1379.31	0.00		CODELL TOP
7715.00†	0.000	239.168	7419.58	1606.33	-823.28	-1379.31	0.00		
7815.00†	0.000	239.168	7519.58	1606.33	-823.28	-1379.31	0.00		
7884.42†	0.000	239.168	7589.00	1606.33	-823.28	-1379.31	0.00		NIO A TOP
7915.00†	0.000	239.168	7619.58	1606.33	-823.28	-1379.31	0.00		
8015.00†	0.000	239.168	7719.58	1606.33	-823.28	-1379.31	0.00		

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANADARKO PETROLEUM	Slot	SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
Area	COLORADO	Well	BELLA FEDERAL 36-7
Field	WELD COUNTY (ANADARKO)	Wellbore	BELLA FEDERAL 36-7 PWB
Facility	SEC.07-T3N-R66W		

WELLPATH DATA (93 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8070.42†	0.000	239.168	7775.00	1606.33	-823.28	-1379.31	0.00	JSAND TOP
8115.00†	0.000	239.168	7819.58	1606.33	-823.28	-1379.31	0.00	
8210.42	0.000	239.168	7915.00	1606.33	-823.28	-1379.31	0.00	End of Tangent

HOLE & CASING SECTIONS									
Ref Wellbore: BELLA FEDERAL 36-7 PWB				Ref Wellpath: BELLA FEDERAL 36-7 (REV-A.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]
12.25in Open Hole	15.00	650.00	635.00	15.00	650.00	0.00	0.00	0.00	0.00
8.625in Casing Surface	15.00	650.00	635.00	15.00	650.00	0.00	0.00	0.00	0.00
7.875in Open Hole	650.00	8210.42	7560.42	650.00	7915.00	0.00	0.00	-823.28	-1379.31

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) BELLA FEDERAL 36-7 GEO TARGET 50' RADIUS (100'FSL & 2540'FEL, REV-1)		6000.00	-823.28	-1379.31	3189898.78	1328138.84	40°13'55.704"N	104°49'11.424"W	circle
BELLA FEDERAL 36-7 HARDLINE 100'S OF GEO TARGET		6000.00	-923.28	-1379.31	3189899.55	1328038.85	40°13'54.716"N	104°49'11.424"W	point
BELLA FEDERAL 36-7 HARDLINE 103'W OF GEO TARGET		6000.00	-823.28	-1482.31	3189795.79	1328138.05	40°13'55.704"N	104°49'12.752"W	point

SURVEY PROGRAM				
Ref Wellbore: BELLA FEDERAL 36-7 PWB		Ref Wellpath: BELLA FEDERAL 36-7 (REV-A.0) PWP		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	8210.42	MTC (Collar, post-2000) (Standard)		BELLA FEDERAL 36-7 PWB



Planned Wellpath Report

BELLA FEDERAL 36-7 (REV-A.0) PWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANADARKO PETROLEUM	Slot	SLOT#05 BELLA FEDERAL 36-7 (895'FSL & 1161'FEL)
Area	COLORADO	Well	BELLA FEDERAL 36-7
Field	WELD COUNTY (ANADARKO)	Wellbore	BELLA FEDERAL 36-7 PWB
Facility	SEC.07-T3N-R66W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
3921.46	23.000	239.168	3750.00	PARKMAN TOP
4432.05	23.000	239.168	4220.00	SUSSEX TOP
7619.42	0.000	239.168	7324.00	CODELL TOP
7884.42	0.000	239.168	7589.00	NIO A TOP
8070.42	0.000	239.168	7775.00	JSAND TOP