

ENCANA OIL & GAS (USA) INC

Location: COLORADO Slot: Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL
 Field: GARFIELD COUNTY (NEW) Well: Federal 25-9
 Facility: SEC.25-T7S-R96W Wellbore: Federal 25-9 PWB



Pit reference wellpath is Federal 25-9 PWP Rev-A.0		Grid System: NAD83 / Lambert Colorado State Planes, Central Zone (502), US feet
True vertical depths are referenced to Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT)		North Reference: True north
Measured depths are referenced to Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT)		Scale: True distance
Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT) to Mean Sea Level: 6086 feet		Depths are in feet
Mean Sea Level to Mud line (Facility: SEC.25-T7S-R96W): 0 feet		Created by: thomson on 10/16/2009
Coordinates are in feet referenced to Slot		

Location Information

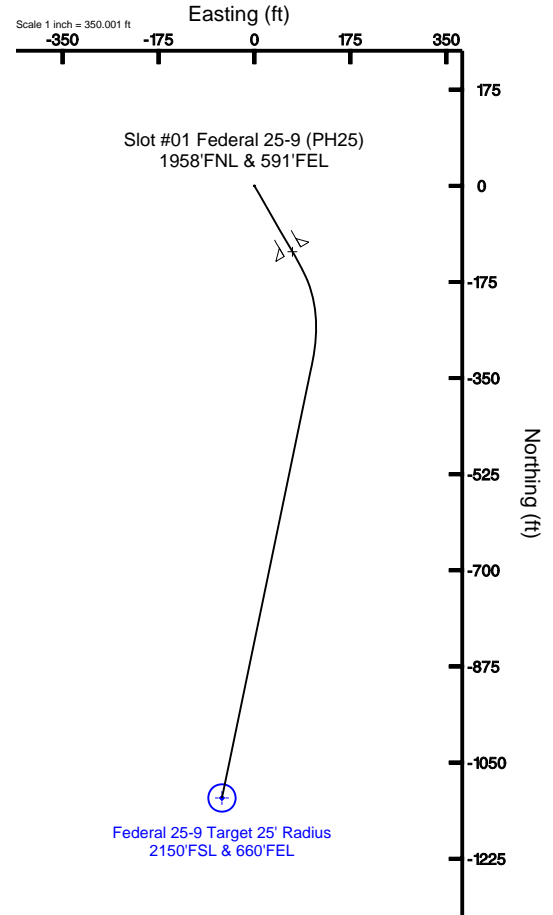
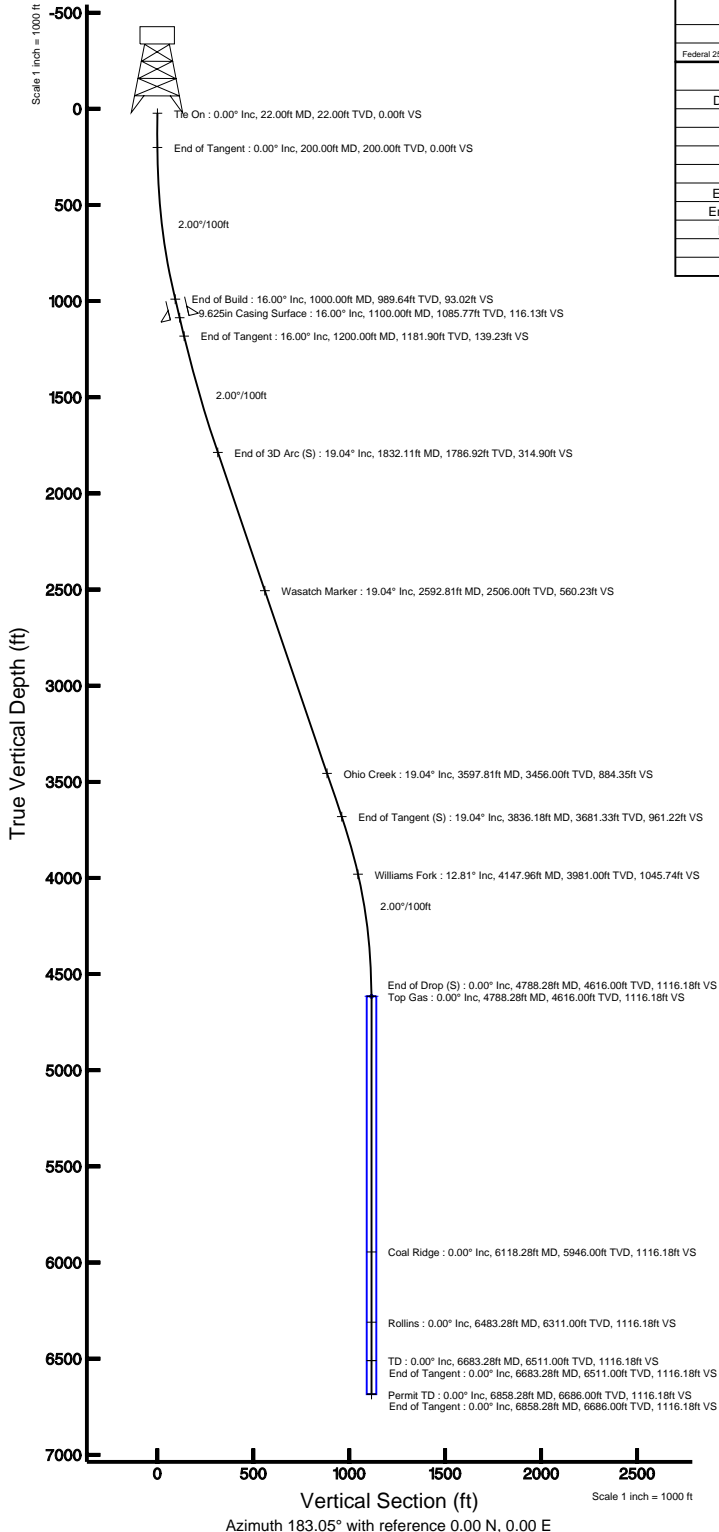
Facility Name	Grid East (USft)	Grid North (USft)	Latitude	Longitude			
SEC.25-T7S-R96W	2279388.355	1584500.194	39°24'37.584"N	108°03'02.808"W			
Slot	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude	
Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL	0.00	0.00	2279388.355	1584500.194	39°24'37.584"N	108°03'02.808"W	
Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT) to Mud line (Facility: SEC.25-T7S-R96W)				6086ft			
Mean Sea Level to Mud line (Facility: SEC.25-T7S-R96W)				0ft			
Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT) to Mean Sea Level				6086ft			

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude
Federal 25-9 Target 25' Radius 2150'FSL & 660'FEL	4788.28	4616.00	-1114.60	-59.34	2279297.75	1583387.75	39°24'26.568"N	108°03'03.564"W

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	22.00	0.000	150.000	22.00	0.00	0.00	0.00	0.00
End of Tangent	200.00	0.000	150.000	200.00	0.00	0.00	0.00	0.00
End of Build	1000.00	16.000	150.000	989.64	-96.11	55.49	2.00	93.02
End of Tangent	1200.00	16.000	150.000	1181.90	-143.85	83.05	0.00	139.23
End of 3D Arc (S)	1832.11	19.042	191.748	1786.92	-320.97	105.71	2.00	314.90
End of Tangent (S)	3836.18	19.042	191.748	3681.33	-961.13	-27.42	0.00	961.22
End of Drop (S)	4788.28	0.000	191.748	4616.00	-1114.60	-59.34	2.00	1116.18
End of Tangent	6683.28	0.000	191.748	6511.00	-1114.60	-59.34	0.00	1116.18
End of Tangent	6858.28	0.000	191.748	6686.00	-1114.60	-59.34	0.00	1116.18



Scale 1 inch = 350.001 ft
 BGM (1945 to 2011) Dp: 65.73' Field: 52426.9' RT
 Magnetic North is 10.59 degrees East of True North (at 10/13/2009)
 To correct azimuth from Magnetic to True add 10.59 degrees

Vertical Section (ft)
 Azimuth 183.05° with reference 0.00 N, 0.00 E



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ENCANA OIL & GAS (USA) INC	Slot	Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL
Area	COLORADO	Well	Federal 25-9
Field	GARFIELD COUNTY (NEW)	Wellbore	Federal 25-9 PWB
Facility	SEC.25-T7S-R96W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Central Zone (502), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	0.99995	Report Generated	10/16/2009 at 9:46:36 PM
Convergence at slot	1.61° West	Database/Source file	Denver/Federal_25-9_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2279388.36	1584500.19	39°24'37.584"N	108°03'02.808"W
Facility Reference Pt			2279388.36	1584500.19	39°24'37.584"N	108°03'02.808"W
Field Reference Pt			3000000.01	4560984.48	47°34'21.070"N	105°30'00.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT) to Facility Vertical Datum	6086.00ft
Horizontal Reference Pt	Slot	Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT) to Mean Sea Level	6086.00ft
Vertical Reference Pt	Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on Slot #01 Federal 25-9 (PH25) 1958'FNL & 591'FEL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	183.05°



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Field	GARFIELD COUNTY (NEW)	Wellbore	Federal 25-9 PWB
Facility	SEC.25-T7S-R96W		

WELLPATH DATA (78 stations) † = interpolated/extrapolated station							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	150.000	0.00	0.00	0.00	0.00	0.00
22.00	0.000	150.000	22.00	0.00	0.00	0.00	0.00
122.00†	0.000	150.000	122.00	0.00	0.00	0.00	0.00
200.00	0.000	150.000	200.00	0.00	0.00	0.00	0.00
222.00†	0.440	150.000	222.00	0.07	-0.07	0.04	2.00
322.00†	2.440	150.000	321.96	2.18	-2.25	1.30	2.00
422.00†	4.440	150.000	421.78	7.21	-7.45	4.30	2.00
522.00†	6.440	150.000	521.32	15.15	-15.66	9.04	2.00
622.00†	8.440	150.000	620.48	26.01	-26.87	15.51	2.00
722.00†	10.440	150.000	719.12	39.75	-41.07	23.71	2.00
822.00†	12.440	150.000	817.12	56.38	-58.25	33.63	2.00
922.00†	14.440	150.000	914.38	75.86	-78.38	45.25	2.00
1000.00	16.000	150.000	989.64	93.02	-96.11	55.49	2.00
1022.00†	16.000	150.000	1010.79	98.11	-101.36	58.52	0.00
1122.00†	16.000	150.000	1106.92	121.21	-125.23	72.30	0.00
1200.00	16.000	150.000	1181.90	139.23	-143.85	83.05	0.00
1222.00†	15.952	151.589	1203.05	144.35	-149.14	86.01	2.00
1322.00†	15.885	158.882	1299.22	168.56	-173.99	97.48	2.00
1422.00†	16.061	166.126	1395.37	194.29	-200.19	105.73	2.00
1522.00†	16.474	173.116	1491.37	221.49	-227.70	110.74	2.00
1622.00†	17.106	179.690	1587.12	250.14	-256.48	112.52	2.00
1722.00†	17.934	185.741	1682.49	280.20	-286.51	111.06	2.00
1822.00†	18.933	191.226	1777.36	311.64	-317.75	106.36	2.00
1832.11	19.042	191.748	1786.92	314.90	-320.97	105.71	2.00
1922.00†	19.042	191.748	1871.89	343.89	-349.68	99.74	0.00
2022.00†	19.042	191.748	1966.42	376.14	-381.63	93.09	0.00
2122.00†	19.042	191.748	2060.95	408.39	-413.57	86.45	0.00
2222.00†	19.042	191.748	2155.48	440.64	-445.51	79.81	0.00
2322.00†	19.042	191.748	2250.01	472.89	-477.46	73.16	0.00
2422.00†	19.042	191.748	2344.53	505.14	-509.40	66.52	0.00
2522.00†	19.042	191.748	2439.06	537.39	-541.34	59.88	0.00
2622.00†	19.042	191.748	2533.59	569.64	-573.28	53.24	0.00
2722.00†	19.042	191.748	2628.12	601.89	-605.23	46.59	0.00
2822.00†	19.042	191.748	2722.65	634.14	-637.17	39.95	0.00
2922.00†	19.042	191.748	2817.17	666.39	-669.11	33.31	0.00
3022.00†	19.042	191.748	2911.70	698.65	-701.05	26.66	0.00
3122.00†	19.042	191.748	3006.23	730.90	-733.00	20.02	0.00
3222.00†	19.042	191.748	3100.76	763.15	-764.94	13.38	0.00
3322.00†	19.042	191.748	3195.29	795.40	-796.88	6.73	0.00
3422.00†	19.042	191.748	3289.81	827.65	-828.83	0.09	0.00
3522.00†	19.042	191.748	3384.34	859.90	-860.77	-6.55	0.00
3622.00†	19.042	191.748	3478.87	892.15	-892.71	-13.19	0.00
3722.00†	19.042	191.748	3573.40	924.40	-924.65	-19.84	0.00
3822.00†	19.042	191.748	3667.93	956.65	-956.60	-26.48	0.00
3836.18	19.042	191.748	3681.33	961.22	-961.13	-27.42	0.00



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REFERENCE WELLPATH IDENTIFICATION			
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Area	COLORADO	Well	Federal 25-9
Field	GARFIELD COUNTY (NEW)	Wellbore	Federal 25-9 PWB
Facility	SEC.25-T7S-R96W		

WELLPATH DATA (78 stations) † = interpolated/extrapolated station							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3922.00†	17.326	191.748	3762.86	987.70	-987.34	-32.87	2.00
4022.00†	15.326	191.748	3858.82	1015.48	-1014.86	-38.60	2.00
4122.00†	13.326	191.748	3955.71	1039.94	-1039.09	-43.64	2.00
4222.00†	11.326	191.748	4053.40	1061.04	-1059.99	-47.98	2.00
4322.00†	9.326	191.748	4151.78	1078.76	-1077.53	-51.63	2.00
4422.00†	7.326	191.748	4250.72	1093.07	-1091.71	-54.58	2.00
4522.00†	5.326	191.748	4350.10	1103.96	-1102.50	-56.82	2.00
4622.00†	3.326	191.748	4449.81	1111.41	-1109.88	-58.36	2.00
4722.00†	1.326	191.748	4549.73	1115.42	-1113.85	-59.18	2.00
4788.28	0.000	191.748	4616.00 ¹	1116.18	-1114.60	-59.34	2.00
4822.00†	0.000	191.748	4649.72	1116.18	-1114.60	-59.34	0.00
4922.00†	0.000	191.748	4749.72	1116.18	-1114.60	-59.34	0.00
5022.00†	0.000	191.748	4849.72	1116.18	-1114.60	-59.34	0.00
5122.00†	0.000	191.748	4949.72	1116.18	-1114.60	-59.34	0.00
5222.00†	0.000	191.748	5049.72	1116.18	-1114.60	-59.34	0.00
5322.00†	0.000	191.748	5149.72	1116.18	-1114.60	-59.34	0.00
5422.00†	0.000	191.748	5249.72	1116.18	-1114.60	-59.34	0.00
5522.00†	0.000	191.748	5349.72	1116.18	-1114.60	-59.34	0.00
5622.00†	0.000	191.748	5449.72	1116.18	-1114.60	-59.34	0.00
5722.00†	0.000	191.748	5549.72	1116.18	-1114.60	-59.34	0.00
5822.00†	0.000	191.748	5649.72	1116.18	-1114.60	-59.34	0.00
5922.00†	0.000	191.748	5749.72	1116.18	-1114.60	-59.34	0.00
6022.00†	0.000	191.748	5849.72	1116.18	-1114.60	-59.34	0.00
6122.00†	0.000	191.748	5949.72	1116.18	-1114.60	-59.34	0.00
6222.00†	0.000	191.748	6049.72	1116.18	-1114.60	-59.34	0.00
6322.00†	0.000	191.748	6149.72	1116.18	-1114.60	-59.34	0.00
6422.00†	0.000	191.748	6249.72	1116.18	-1114.60	-59.34	0.00
6522.00†	0.000	191.748	6349.72	1116.18	-1114.60	-59.34	0.00
6622.00†	0.000	191.748	6449.72	1116.18	-1114.60	-59.34	0.00
6683.28	0.000	191.748	6511.00	1116.18	-1114.60	-59.34	0.00
6722.00†	0.000	191.748	6549.72	1116.18	-1114.60	-59.34	0.00
6822.00†	0.000	191.748	6649.72	1116.18	-1114.60	-59.34	0.00
6858.28	0.000	191.748	6686.00	1116.18	-1114.60	-59.34	0.00

HOLE & CASING SECTIONS Ref Wellbore: Federal 25-9 PWB Ref Wellpath: Federal 25-9 PWP Rev-A.0									
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	22.00	1100.00	1078.00	22.00	1085.77	0.00	0.00	-119.98	69.27
9.625in Casing Surface	22.00	1100.00	1078.00	22.00	1085.77	0.00	0.00	-119.98	69.27



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Area	COLORADO	Well	Federal 25-9
Field	GARFIELD COUNTY (NEW)	Wellbore	Federal 25-9 PWB
Facility	SEC.25-T7S-R96W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) Federal 25-9 Target 25' Radius 2150'FSL & 660'FEL	4788.28	4616.00	-1114.60	-59.34	2279297.75	1583387.75	39°24'26.568"N	108°03'03.564"W	circle

SURVEY PROGRAM Ref Wellbore: Federal 25-9 PWB Ref Wellpath: Federal 25-9 PWP Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	6858.28	MTC (Collar, post-2000) (Standard)		Federal 25-9 PWB



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Field	GARFIELD COUNTY (NEW)	Wellbore	Federal 25-9 PWB
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WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2592.81	19.042	191.748	2506.00	Wasatch Marker
3597.81	19.042	191.748	3456.00	Ohio Creek
4147.96	12.806	191.748	3981.00	Williams Fork
4788.28	0.000	191.748	4616.00	Top Gas
6118.28	0.000	191.748	5946.00	Coal Ridge
6483.28	0.000	191.748	6311.00	Rollins
6683.28	0.000	191.748	6511.00	TD
6858.28	0.000	191.748	6686.00	Permit TD