

30-015-36940

devon

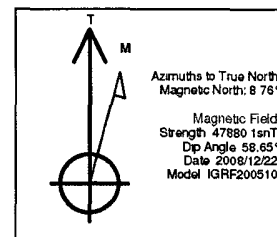
Devon Energy

Project: Eddy County (NM27E)
 Site: Sec 7-T18S-R27E
 Well: Condor 7 #7H
 Wellbore: Wellbore #1
 Design: Plan #1
 Plan Version

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Condor 7 #7H, True North
 Vertical (TVD) Reference: WELL @ 0.00ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.68N, -0.06E)
 Measured Depth Reference: WELL @ 0.00ft (Original Well Elev)
 Calculation Method: Minimum Curvature

QUANTUM
 DRILLING MOTORS
 & DIRECTIONAL SERVICES



FEB 20 2009

PLAN DETAILS

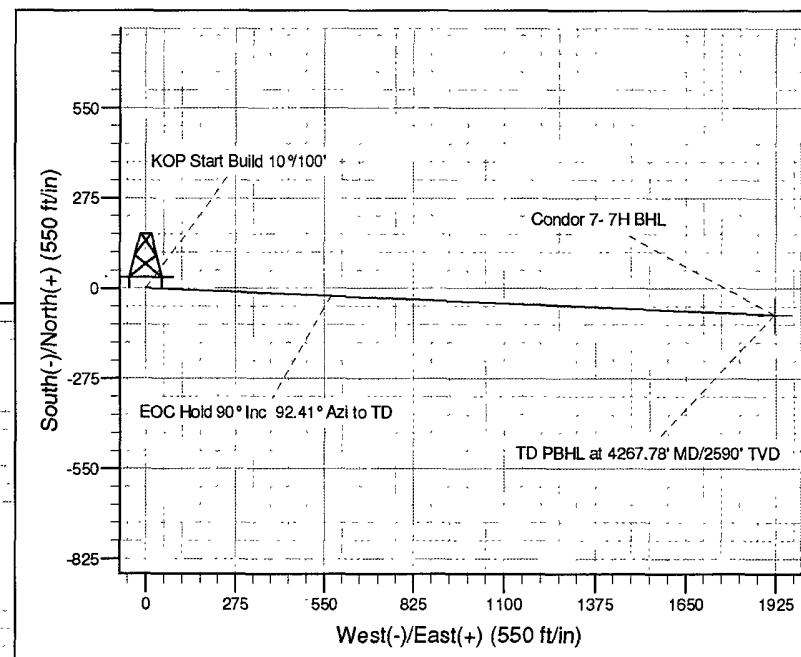
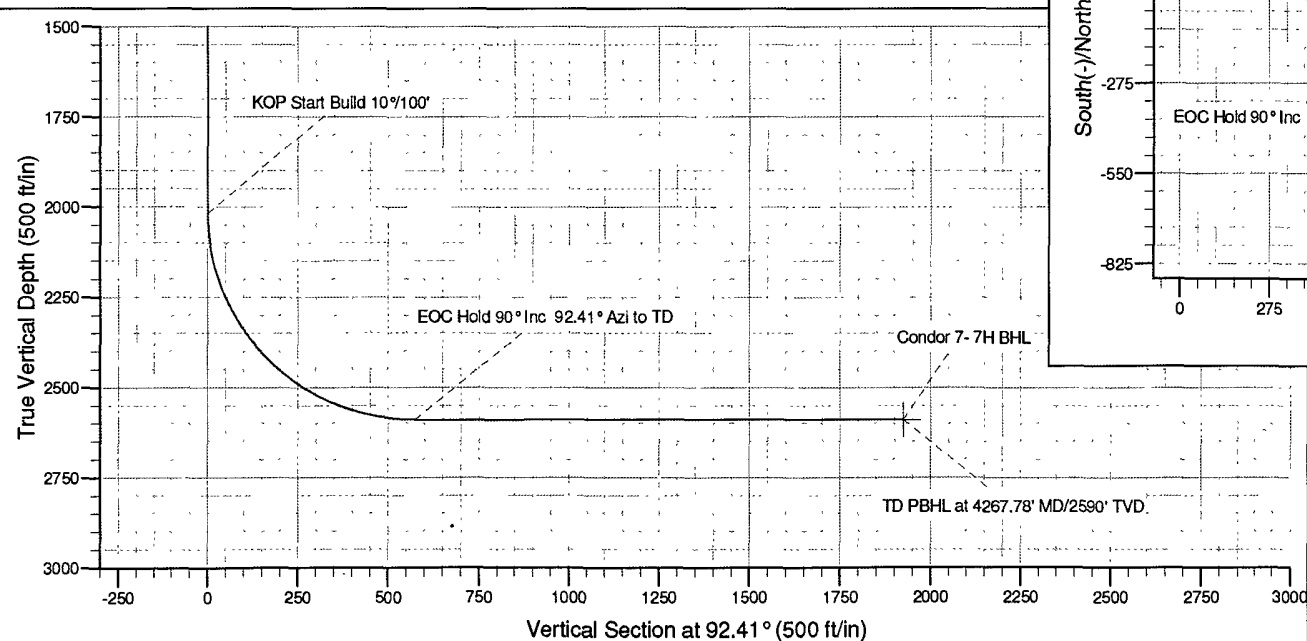
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.68	-0.06	0.00	0.00	0.00	
2	2017.00	0.00	92.41	2017.00	0.68	-0.06	0.00	92.41	0.00	
3	2917.07	90.00	92.41	2590.00	-23.41	572.44	10.00	92.41	573.00	
4	4267.78	90.00	92.41	2590.00	-80.21	1921.95	0.00	0.00	1923.71	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Condor 7- 7H BHL	2590.00	-81.00	1922.00	232.506	6818.047	Point

WELL DETAILS: Condor 7 #7H

+N/-S	+E/-W	Northing	Easting	Ground Level: 0.00	Latitude	Longitude	Slot
0.68	-0.06	341.480	4897.344		30° 59' 28.582 N	105° 54' 47.949 W	



FEB 23 2009

Devon Energy

Eddy County (NM27E)

Sec 7-T18S-R27E

Condor 7 #7H

Wellbore #1

Plan: Plan #1

Standard Planning Report

22 December, 2008

The logo for Devon Energy, featuring the word "devon" in a stylized, lowercase, cursive font.

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Condor 7 #7H
Company:	Devon Energy	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Sec 7-T18S-R27E	North Reference:	True
Well:	Condor 7 #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Eddy County (NM27E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 7-T18S-R27E		
Site Position:		Northing:	ft
From:	None	Easting:	ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	
		Longitude:	
		Grid Convergence:	0.00 °

Well	Condor 7 #7H		
Well Position	+N/-S	0.68 ft	Northing:
	+E/-W	-0.06 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	30° 59' 28.582 N
		Longitude:	105° 54' 47.949 W
		Ground Level:	0.00 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	2008/12/22	8.76
			Dip Angle
			(°)
			58.65
			Field Strength
			(nT)
			47,880

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.68	-0.06
			Direction
			(°)
			92.41

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0.00	0.00	0.00	0.68	-0.06	0.00	0.00	0.00	0.00	
2,017.00	0.00	92.41	2,017.00	0.68	-0.06	0.00	0.00	0.00	92.41	
2,917.07	90.00	92.41	2,590.00	-23.41	572.44	10.00	10.00	0.00	92.41	
4,267.78	90.00	92.41	2,590.00	-80.21	1,921.95	0.00	0.00	0.00	0.00	

Quantum
Planning Report

devon

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Condor 7 #7H
Company:	Devon Energy	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Sec 7-T18S-R27E	North Reference:	True
Well:	Condor 7 #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.68	-0.06	0.00	0.00	0.00	0.00
100.00	0.00	92.41	100.00	0.68	-0.06	0.00	0.00	0.00	0.00
200.00	0.00	92.41	200.00	0.68	-0.06	0.00	0.00	0.00	0.00
300.00	0.00	92.41	300.00	0.68	-0.06	0.00	0.00	0.00	0.00
400.00	0.00	92.41	400.00	0.68	-0.06	0.00	0.00	0.00	0.00
500.00	0.00	92.41	500.00	0.68	-0.06	0.00	0.00	0.00	0.00
600.00	0.00	92.41	600.00	0.68	-0.06	0.00	0.00	0.00	0.00
700.00	0.00	92.41	700.00	0.68	-0.06	0.00	0.00	0.00	0.00
800.00	0.00	92.41	800.00	0.68	-0.06	0.00	0.00	0.00	0.00
900.00	0.00	92.41	900.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,000.00	0.00	92.41	1,000.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,100.00	0.00	92.41	1,100.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,200.00	0.00	92.41	1,200.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,300.00	0.00	92.41	1,300.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,400.00	0.00	92.41	1,400.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,500.00	0.00	92.41	1,500.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,600.00	0.00	92.41	1,600.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,700.00	0.00	92.41	1,700.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,800.00	0.00	92.41	1,800.00	0.68	-0.06	0.00	0.00	0.00	0.00
1,900.00	0.00	92.41	1,900.00	0.68	-0.06	0.00	0.00	0.00	0.00
2,000.00	0.00	92.41	2,000.00	0.68	-0.06	0.00	0.00	0.00	0.00
2,017.00	0.00	92.41	2,017.00	0.68	-0.06	0.00	0.00	0.00	0.00
KOP Start Build 10°/100'									
2,050.00	3.30	92.41	2,049.98	0.64	0.89	0.95	10.00	10.00	0.00
2,100.00	8.30	92.41	2,099.71	0.43	5.94	6.00	10.00	10.00	0.00
2,150.00	13.30	92.41	2,148.81	0.04	15.30	15.37	10.00	10.00	0.00
2,200.00	18.30	92.41	2,196.90	-0.53	28.89	28.97	10.00	10.00	0.00
2,250.00	23.30	92.41	2,243.63	-1.28	46.62	46.72	10.00	10.00	0.00
2,300.00	28.30	92.41	2,288.63	-2.20	68.36	68.48	10.00	10.00	0.00
2,350.00	33.30	92.41	2,331.57	-3.27	93.93	94.07	10.00	10.00	0.00
2,400.00	38.30	92.41	2,372.11	-4.50	123.14	123.31	10.00	10.00	0.00
2,450.00	43.30	92.41	2,409.95	-5.87	155.77	155.96	10.00	10.00	0.00
2,500.00	48.30	92.41	2,444.80	-7.38	191.57	191.80	10.00	10.00	0.00
2,550.00	53.30	92.41	2,476.39	-9.01	230.27	230.53	10.00	10.00	0.00
2,600.00	58.30	92.41	2,504.49	-10.75	271.57	271.87	10.00	10.00	0.00
2,650.00	63.30	92.41	2,528.88	-12.58	315.16	315.50	10.00	10.00	0.00
2,700.00	68.29	92.41	2,549.37	-14.50	360.71	361.09	10.00	10.00	0.00
2,750.00	73.29	92.41	2,565.82	-16.48	407.87	408.29	10.00	10.00	0.00
2,800.00	78.29	92.41	2,578.08	-18.52	456.28	456.75	10.00	10.00	0.00
2,850.00	83.29	92.41	2,586.08	-20.60	505.58	506.09	10.00	10.00	0.00
2,900.00	88.29	92.41	2,589.75	-22.69	555.39	555.94	10.00	10.00	0.00
2,917.07	90.00	92.41	2,590.00	-23.41	572.44	573.00	10.00	10.00	0.00
EOC Hold 90° Inc 92.41° Azi to TD									
3,000.00	90.00	92.41	2,590.00	-26.90	655.30	655.93	0.00	0.00	0.00
3,100.00	90.00	92.41	2,590.00	-31.10	755.21	755.93	0.00	0.00	0.00
3,200.00	90.00	92.41	2,590.00	-35.31	855.12	855.93	0.00	0.00	0.00
3,300.00	90.00	92.41	2,590.00	-39.51	955.03	955.93	0.00	0.00	0.00
3,400.00	90.00	92.41	2,590.00	-43.72	1,054.94	1,055.93	0.00	0.00	0.00
3,500.00	90.00	92.41	2,590.00	-47.92	1,154.85	1,155.93	0.00	0.00	0.00
3,600.00	90.00	92.41	2,590.00	-52.13	1,254.77	1,255.93	0.00	0.00	0.00
3,700.00	90.00	92.41	2,590.00	-56.33	1,354.68	1,355.93	0.00	0.00	0.00
3,800.00	90.00	92.41	2,590.00	-60.54	1,454.59	1,455.93	0.00	0.00	0.00
3,900.00	90.00	92.41	2,590.00	-64.74	1,554.50	1,555.93	0.00	0.00	0.00

Quantum
Planning Report

devon

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Company:	Devon Energy	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Sec 7-T18S-R27E	North Reference:	True
Well:	Condor 7 #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	90.00	92.41	2,590.00	-68.95	1,654.41	1,655.93	0.00	0.00	0.00
4,100.00	90.00	92.41	2,590.00	-73.15	1,754.32	1,755.93	0.00	0.00	0.00
4,200.00	90.00	92.41	2,590.00	-77.36	1,854.23	1,855.93	0.00	0.00	0.00
4,267.78	90.00	92.41	2,590.00	-80.21	1,921.95	1,923.71	0.00	0.00	0.00
TD PBHL at 4267.78' MD/2590' TVD - Condor 7- 7H BHL									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Condor 7- 7H BHL	0.00	0.00	2,590.00	-81.00	1,922.00	232.506	6,818.047	30° 59' 27.773 N	105° 54' 25.873 W
- plan hits target									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,017.00	2,017.00	0.68	-0.06	KOP Start Build 10°/100'	
2,917.07	2,590.00	-23.41	572.44	EOC Hold 90° Inc 92.41° Azi to TD	
4,267.78	2,590.00	-80.21	1,921.95	TD PBHL at 4267.78' MD/2590' TVD	