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HOBBS OCD

APR 16 2012

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Amtex Energy, Inc

Lea County, New Mexico
Sec 6, T-22-S, R-33-E NMPM
AO "6" State #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

12 April, 2012



APR 18 2012

DDC
Well Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well AO "6" State #1H
Company:	Amtex Energy, Inc	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 6, T-22-S, R-33-E NMPM	North Reference:	Grid
Well:	AO "6" State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico		
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 6, T-22-S, R-33-E NMPM		
Site Position:		Northing:	517,172.20 usft
From:	Map	Easting:	725,413.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 25' 10.928 N
		Longitude:	103° 36' 10.231 W
		Grid Convergence:	0.39 °

Well	AO "6" State #1H		
Well Position	+N/-S	0.0 usft	Northing: 517,172.20 usft
	+E/-W	0.0 usft	Easting: 725,413.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 25' 10.928 N
			Longitude: 103° 36' 10.231 W
			Ground Level: 0.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/12/2012	7.52	60.34	48,674

Design	Design #1		
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Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	269.69

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,287.0	0.00	0.00	10,287.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,187.0	90.00	269.69	10,860.0	-3.1	-572.9	10.00	10.00	-10.03	269.69	
15,374.8	90.00	269.69	10,860.0	-25.6	-4,760.7	0.00	0.00	0.00	0.00	PBHL AO "6" State

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Project:	Lea County, New Mexico	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 6, T-22-S, R-33-E NMPM	North Reference:	Grid
Well:	AO "6" State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Build 10° / 100'									
10,287.0	0.00	0.00	10,287.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	1.30	269.69	10,300.0	0.0	-0.1	0.1	10.00	10.00	0.00
10,400.0	11.30	269.69	10,399.3	-0.1	-11.1	11.1	10.00	10.00	0.00
10,500.0	21.30	269.69	10,495.1	-0.2	-39.1	39.1	10.00	10.00	0.00
10,600.0	31.30	269.69	10,584.7	-0.4	-83.4	83.4	10.00	10.00	0.00
10,700.0	41.30	269.69	10,665.2	-0.8	-142.5	142.5	10.00	10.00	0.00
10,800.0	51.30	269.69	10,734.2	-1.2	-214.7	214.7	10.00	10.00	0.00
10,900.0	61.30	269.69	10,789.6	-1.6	-297.8	297.8	10.00	10.00	0.00
11,000.0	71.30	269.69	10,829.7	-2.1	-389.3	389.3	10.00	10.00	0.00
11,100.0	81.30	269.69	10,853.4	-2.6	-486.3	486.3	10.00	10.00	0.00
End of Curve / 90° Inc / 269.69° Azm / 10860' TVD									
11,187.0	90.00	269.69	10,860.0	-3.1	-572.9	573.0	10.00	10.00	0.00
11,200.0	90.00	269.69	10,860.0	-3.2	-585.9	586.0	0.00	0.00	0.00
11,300.0	90.00	269.69	10,860.0	-3.7	-685.9	686.0	0.00	0.00	0.00
11,400.0	90.00	269.69	10,860.0	-4.2	-785.9	786.0	0.00	0.00	0.00
11,500.0	90.00	269.69	10,860.0	-4.8	-885.9	886.0	0.00	0.00	0.00
11,600.0	90.00	269.69	10,860.0	-5.3	-985.9	986.0	0.00	0.00	0.00
11,700.0	90.00	269.69	10,860.0	-5.8	-1,085.9	1,086.0	0.00	0.00	0.00
11,800.0	90.00	269.69	10,860.0	-6.4	-1,185.9	1,186.0	0.00	0.00	0.00
11,900.0	90.00	269.69	10,860.0	-6.9	-1,285.9	1,286.0	0.00	0.00	0.00
12,000.0	90.00	269.69	10,860.0	-7.5	-1,385.9	1,386.0	0.00	0.00	0.00
12,100.0	90.00	269.69	10,860.0	-8.0	-1,485.9	1,486.0	0.00	0.00	0.00
12,200.0	90.00	269.69	10,860.0	-8.5	-1,585.9	1,586.0	0.00	0.00	0.00
12,300.0	90.00	269.69	10,860.0	-9.1	-1,685.9	1,686.0	0.00	0.00	0.00
12,400.0	90.00	269.69	10,860.0	-9.6	-1,785.9	1,786.0	0.00	0.00	0.00
12,500.0	90.00	269.69	10,860.0	-10.1	-1,885.9	1,886.0	0.00	0.00	0.00
12,600.0	90.00	269.69	10,860.0	-10.7	-1,985.9	1,986.0	0.00	0.00	0.00
12,700.0	90.00	269.69	10,860.0	-11.2	-2,085.9	2,086.0	0.00	0.00	0.00
12,800.0	90.00	269.69	10,860.0	-11.8	-2,185.9	2,186.0	0.00	0.00	0.00
12,900.0	90.00	269.69	10,860.0	-12.3	-2,285.9	2,286.0	0.00	0.00	0.00
13,000.0	90.00	269.69	10,860.0	-12.8	-2,385.9	2,386.0	0.00	0.00	0.00
13,100.0	90.00	269.69	10,860.0	-13.4	-2,485.9	2,486.0	0.00	0.00	0.00
13,200.0	90.00	269.69	10,860.0	-13.9	-2,585.9	2,586.0	0.00	0.00	0.00
13,300.0	90.00	269.69	10,860.0	-14.4	-2,685.9	2,686.0	0.00	0.00	0.00
13,400.0	90.00	269.69	10,860.0	-15.0	-2,785.9	2,786.0	0.00	0.00	0.00
13,500.0	90.00	269.69	10,860.0	-15.5	-2,885.9	2,886.0	0.00	0.00	0.00
13,600.0	90.00	269.69	10,860.0	-16.1	-2,985.9	2,986.0	0.00	0.00	0.00
13,700.0	90.00	269.69	10,860.0	-16.6	-3,085.9	3,086.0	0.00	0.00	0.00
13,800.0	90.00	269.69	10,860.0	-17.1	-3,185.9	3,186.0	0.00	0.00	0.00
13,900.0	90.00	269.69	10,860.0	-17.7	-3,285.9	3,286.0	0.00	0.00	0.00
14,000.0	90.00	269.69	10,860.0	-18.2	-3,385.9	3,386.0	0.00	0.00	0.00
14,100.0	90.00	269.69	10,860.0	-18.7	-3,485.9	3,486.0	0.00	0.00	0.00
14,200.0	90.00	269.69	10,860.0	-19.3	-3,585.9	3,586.0	0.00	0.00	0.00
14,300.0	90.00	269.69	10,860.0	-19.8	-3,685.9	3,686.0	0.00	0.00	0.00
14,400.0	90.00	269.69	10,860.0	-20.4	-3,785.9	3,786.0	0.00	0.00	0.00
14,500.0	90.00	269.69	10,860.0	-20.9	-3,885.9	3,886.0	0.00	0.00	0.00
14,600.0	90.00	269.69	10,860.0	-21.4	-3,985.9	3,986.0	0.00	0.00	0.00
14,700.0	90.00	269.69	10,860.0	-22.0	-4,085.9	4,086.0	0.00	0.00	0.00
14,800.0	90.00	269.69	10,860.0	-22.5	-4,185.9	4,186.0	0.00	0.00	0.00
14,900.0	90.00	269.69	10,860.0	-23.0	-4,285.9	4,286.0	0.00	0.00	0.00
15,000.0	90.00	269.69	10,860.0	-23.6	-4,385.9	4,386.0	0.00	0.00	0.00
15,100.0	90.00	269.69	10,860.0	-24.1	-4,485.9	4,486.0	0.00	0.00	0.00
15,200.0	90.00	269.69	10,860.0	-24.7	-4,585.9	4,586.0	0.00	0.00	0.00

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Well:	AO "6" State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

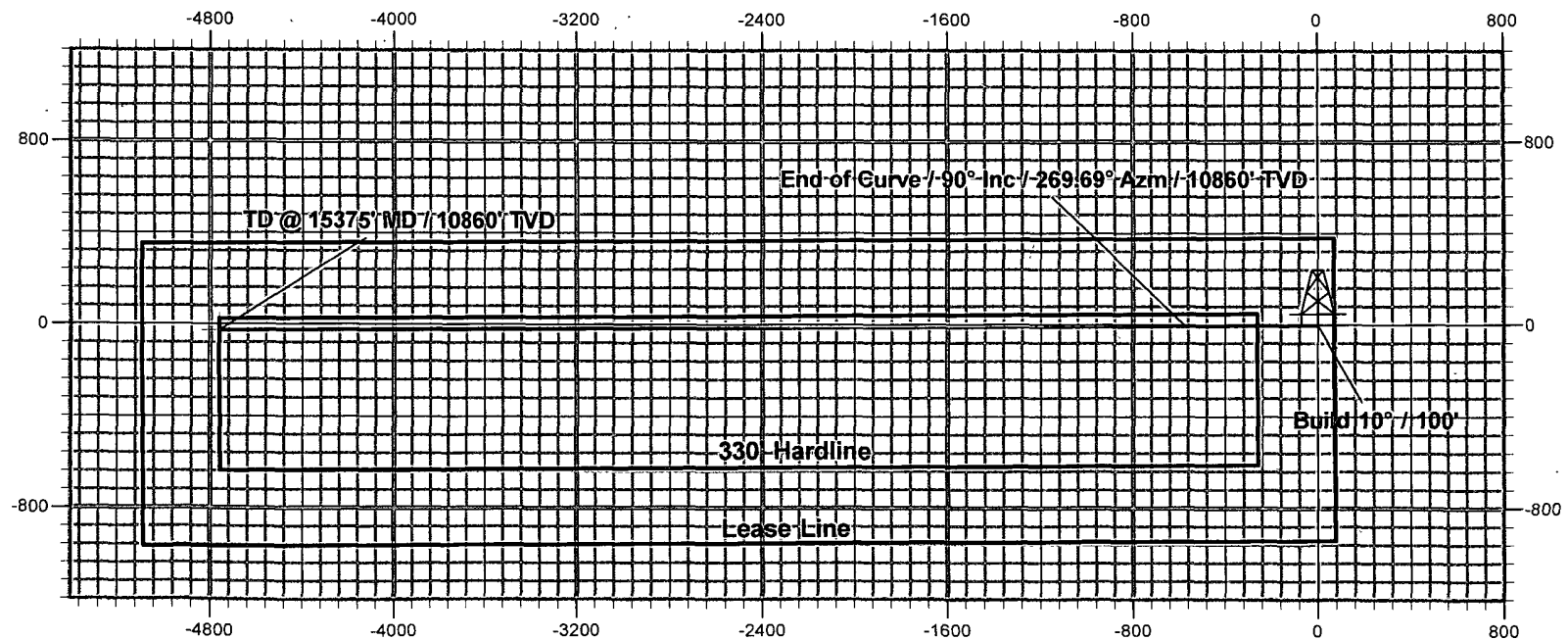
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,300.0	90.00	269.69	10,860.0	-25.2	-4,685.9	4,686.0	0.00	0.00	0.00
TD @ 15375' MD / 10860' TVD									
15,374.8	90.00	269.69	10,860.0	-25.6	-4,760.7	4,760.8	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL AO "6" State #1	0.00	0.00	10,860.0	-25.6	-4,760.7	517,146.60	720,652.80	32° 25' 10.993 N	103° 37' 5.770 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,287.0	10,287.0	0.0	0.0	Build 10° / 100'
11,187.0	10,860.0	-3.1	-572.9	End of Curve / 90° Inc / 269.69° Azm / 10860' TVD
15,374.8	10,860.0	-25.6	-4,760.7	TD @ 15375' MD / 10860' TVD

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AO "6" State #1H



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