

DISTRICT I
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Month-Year
MAR - 1 2007
OCCO-ARTESIA, NM

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35184	Pool Code 78060	Pool Name HAPPY VALLEY; MORROW (GAS)
Property Code	Property Name PERFECTO "2" STATE	Well Number 2
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3224'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	3	22 S	26 E		2100	NORTH	150	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	22 S	26 E		1650	SOUTH	660	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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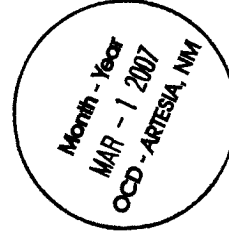
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 02/28/07 Printed Name: STEPHANIE A. YSASAGA
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 16, 2006 Date Surveyed: <i>[Signature]</i> Signature: <i>[Signature]</i> Professional Surveyor No. 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS

SURFACE LOCATION
LAT - N32°25'22.6"
LONG - W103°16'21.2"
(NAD-83)

BOTTOM HOLE LOCATION
LAT - N32°25'08.9"
LONG - W103°16'12.3"
(NAD-83)

SCALE - 1' = 2000'



Devon Energy

Eddy County (NM27E)

Sec 3 T22S R26E

Perfecto 2 State #2

Original Hole

Plan: Plan 02-22-07

Standard Planning Report

27 February, 2007

Quantum Planning Report

Database: EDM 2003.16 Single User Db
Company: Devon Energy
Project: Eddy County (NM27E)
Site: Sec 3 T22S R26E
Well: Perfecto 2 State #2
Wellbore: Original Hole
Design: Plan 02-22-07

Local Co-ordinate Reference: Well Perfecto 2 State #2
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project Eddy County (NM27E)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Sec 3 T22S R26E

Site Position:		Northing:	519,223.05ft	Latitude:	32° 25' 22.600 N
From:	Lat/Long	Easting:	868,655.56ft	Longitude:	103° 16' 21.200 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.57 °

Well Perfecto 2 State #2

Well Position	+N/-S	0.0 ft	Northing:	519,223.05 ft	Latitude:	32° 25' 22.600 N
	+E/-W	0.0 ft	Easting:	868,655.56 ft	Longitude:	103° 16' 21.200 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0ft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/22/2007	7.97	60.54	49,250

Design Plan 02-22-07

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	150.36

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,950.0	0.00	0.00	4,950.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,628.3	20.35	150.36	5,614.1	-103.6	58.9	3.00	3.00	0.00	150.36	
9,456.1	20.35	150.36	9,203.0	-1,260.5	717.2	0.00	0.00	0.00	0.00	
10,270.1	0.00	0.00	10,000.0	-1,384.8	787.9	2.50	-2.50	-18.47	-180.00	Target 1
12,170.1	0.00	0.00	11,900.0	-1,384.8	787.9	0.00	0.00	0.00	0.00	PBHL

Quantum Planning Report

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Well: Perfecto 2 State #2
Wellbore: Original Hole
Design: Plan 02-22-07

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TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL									
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	0.00
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	0.00
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	0.00
210.0	0.00	0.00	210.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
270.0	0.00	0.00	270.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
330.0	0.00	0.00	330.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
390.0	0.00	0.00	390.0	0.0	0.0	0.0	0.00	0.00	0.00
420.0	0.00	0.00	420.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
510.0	0.00	0.00	510.0	0.0	0.0	0.0	0.00	0.00	0.00
540.0	0.00	0.00	540.0	0.0	0.0	0.0	0.00	0.00	0.00
570.0	0.00	0.00	570.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
630.0	0.00	0.00	630.0	0.0	0.0	0.0	0.00	0.00	0.00
660.0	0.00	0.00	660.0	0.0	0.0	0.0	0.00	0.00	0.00
690.0	0.00	0.00	690.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00
780.0	0.00	0.00	780.0	0.0	0.0	0.0	0.00	0.00	0.00
810.0	0.00	0.00	810.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
870.0	0.00	0.00	870.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
930.0	0.00	0.00	930.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
990.0	0.00	0.00	990.0	0.0	0.0	0.0	0.00	0.00	0.00
1,020.0	0.00	0.00	1,020.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,110.0	0.00	0.00	1,110.0	0.0	0.0	0.0	0.00	0.00	0.00
1,140.0	0.00	0.00	1,140.0	0.0	0.0	0.0	0.00	0.00	0.00
1,170.0	0.00	0.00	1,170.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,230.0	0.00	0.00	1,230.0	0.0	0.0	0.0	0.00	0.00	0.00
1,260.0	0.00	0.00	1,260.0	0.0	0.0	0.0	0.00	0.00	0.00
1,290.0	0.00	0.00	1,290.0	0.0	0.0	0.0	0.00	0.00	0.00
1,320.0	0.00	0.00	1,320.0	0.0	0.0	0.0	0.00	0.00	0.00
1,350.0	0.00	0.00	1,350.0	0.0	0.0	0.0	0.00	0.00	0.00
1,380.0	0.00	0.00	1,380.0	0.0	0.0	0.0	0.00	0.00	0.00
1,410.0	0.00	0.00	1,410.0	0.0	0.0	0.0	0.00	0.00	0.00
1,440.0	0.00	0.00	1,440.0	0.0	0.0	0.0	0.00	0.00	0.00
1,470.0	0.00	0.00	1,470.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,530.0	0.00	0.00	1,530.0	0.0	0.0	0.0	0.00	0.00	0.00

Quantum Planning Report

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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Built Rate (°/100ft)	Turn Rate (°/100ft)
1,560.0	0.00	0.00	1,560.0	0.0	0.0	0.0	0.00	0.00	0.00
1,590.0	0.00	0.00	1,590.0	0.0	0.0	0.0	0.00	0.00	0.00
1,620.0	0.00	0.00	1,620.0	0.0	0.0	0.0	0.00	0.00	0.00
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,680.0	0.00	0.00	1,680.0	0.0	0.0	0.0	0.00	0.00	0.00
1,710.0	0.00	0.00	1,710.0	0.0	0.0	0.0	0.00	0.00	0.00
1,740.0	0.00	0.00	1,740.0	0.0	0.0	0.0	0.00	0.00	0.00
1,770.0	0.00	0.00	1,770.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,830.0	0.00	0.00	1,830.0	0.0	0.0	0.0	0.00	0.00	0.00
1,860.0	0.00	0.00	1,860.0	0.0	0.0	0.0	0.00	0.00	0.00
1,890.0	0.00	0.00	1,890.0	0.0	0.0	0.0	0.00	0.00	0.00
1,920.0	0.00	0.00	1,920.0	0.0	0.0	0.0	0.00	0.00	0.00
1,950.0	0.00	0.00	1,950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,980.0	0.00	0.00	1,980.0	0.0	0.0	0.0	0.00	0.00	0.00
2,010.0	0.00	0.00	2,010.0	0.0	0.0	0.0	0.00	0.00	0.00
2,040.0	0.00	0.00	2,040.0	0.0	0.0	0.0	0.00	0.00	0.00
2,070.0	0.00	0.00	2,070.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,130.0	0.00	0.00	2,130.0	0.0	0.0	0.0	0.00	0.00	0.00
2,160.0	0.00	0.00	2,160.0	0.0	0.0	0.0	0.00	0.00	0.00
2,190.0	0.00	0.00	2,190.0	0.0	0.0	0.0	0.00	0.00	0.00
2,220.0	0.00	0.00	2,220.0	0.0	0.0	0.0	0.00	0.00	0.00
2,250.0	0.00	0.00	2,250.0	0.0	0.0	0.0	0.00	0.00	0.00
2,280.0	0.00	0.00	2,280.0	0.0	0.0	0.0	0.00	0.00	0.00
2,310.0	0.00	0.00	2,310.0	0.0	0.0	0.0	0.00	0.00	0.00
2,340.0	0.00	0.00	2,340.0	0.0	0.0	0.0	0.00	0.00	0.00
2,370.0	0.00	0.00	2,370.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,430.0	0.00	0.00	2,430.0	0.0	0.0	0.0	0.00	0.00	0.00
2,460.0	0.00	0.00	2,460.0	0.0	0.0	0.0	0.00	0.00	0.00
2,490.0	0.00	0.00	2,490.0	0.0	0.0	0.0	0.00	0.00	0.00
2,520.0	0.00	0.00	2,520.0	0.0	0.0	0.0	0.00	0.00	0.00
2,550.0	0.00	0.00	2,550.0	0.0	0.0	0.0	0.00	0.00	0.00
2,580.0	0.00	0.00	2,580.0	0.0	0.0	0.0	0.00	0.00	0.00
2,610.0	0.00	0.00	2,610.0	0.0	0.0	0.0	0.00	0.00	0.00
2,640.0	0.00	0.00	2,640.0	0.0	0.0	0.0	0.00	0.00	0.00
2,670.0	0.00	0.00	2,670.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,730.0	0.00	0.00	2,730.0	0.0	0.0	0.0	0.00	0.00	0.00
2,760.0	0.00	0.00	2,760.0	0.0	0.0	0.0	0.00	0.00	0.00
2,790.0	0.00	0.00	2,790.0	0.0	0.0	0.0	0.00	0.00	0.00
2,820.0	0.00	0.00	2,820.0	0.0	0.0	0.0	0.00	0.00	0.00
2,850.0	0.00	0.00	2,850.0	0.0	0.0	0.0	0.00	0.00	0.00
2,880.0	0.00	0.00	2,880.0	0.0	0.0	0.0	0.00	0.00	0.00
2,910.0	0.00	0.00	2,910.0	0.0	0.0	0.0	0.00	0.00	0.00
2,940.0	0.00	0.00	2,940.0	0.0	0.0	0.0	0.00	0.00	0.00
2,970.0	0.00	0.00	2,970.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,030.0	0.00	0.00	3,030.0	0.0	0.0	0.0	0.00	0.00	0.00
3,060.0	0.00	0.00	3,060.0	0.0	0.0	0.0	0.00	0.00	0.00
3,090.0	0.00	0.00	3,090.0	0.0	0.0	0.0	0.00	0.00	0.00
3,120.0	0.00	0.00	3,120.0	0.0	0.0	0.0	0.00	0.00	0.00

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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)
3,150.0	0.00	0.00	3,150.0	0.0	0.0	0.0	0.00	0.00	0.00
3,180.0	0.00	0.00	3,180.0	0.0	0.0	0.0	0.00	0.00	0.00
3,210.0	0.00	0.00	3,210.0	0.0	0.0	0.0	0.00	0.00	0.00
3,240.0	0.00	0.00	3,240.0	0.0	0.0	0.0	0.00	0.00	0.00
3,270.0	0.00	0.00	3,270.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,330.0	0.00	0.00	3,330.0	0.0	0.0	0.0	0.00	0.00	0.00
3,360.0	0.00	0.00	3,360.0	0.0	0.0	0.0	0.00	0.00	0.00
3,390.0	0.00	0.00	3,390.0	0.0	0.0	0.0	0.00	0.00	0.00
3,420.0	0.00	0.00	3,420.0	0.0	0.0	0.0	0.00	0.00	0.00
3,450.0	0.00	0.00	3,450.0	0.0	0.0	0.0	0.00	0.00	0.00
3,480.0	0.00	0.00	3,480.0	0.0	0.0	0.0	0.00	0.00	0.00
3,510.0	0.00	0.00	3,510.0	0.0	0.0	0.0	0.00	0.00	0.00
3,540.0	0.00	0.00	3,540.0	0.0	0.0	0.0	0.00	0.00	0.00
3,570.0	0.00	0.00	3,570.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,630.0	0.00	0.00	3,630.0	0.0	0.0	0.0	0.00	0.00	0.00
3,660.0	0.00	0.00	3,660.0	0.0	0.0	0.0	0.00	0.00	0.00
3,690.0	0.00	0.00	3,690.0	0.0	0.0	0.0	0.00	0.00	0.00
3,720.0	0.00	0.00	3,720.0	0.0	0.0	0.0	0.00	0.00	0.00
3,750.0	0.00	0.00	3,750.0	0.0	0.0	0.0	0.00	0.00	0.00
3,780.0	0.00	0.00	3,780.0	0.0	0.0	0.0	0.00	0.00	0.00
3,810.0	0.00	0.00	3,810.0	0.0	0.0	0.0	0.00	0.00	0.00
3,840.0	0.00	0.00	3,840.0	0.0	0.0	0.0	0.00	0.00	0.00
3,870.0	0.00	0.00	3,870.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,930.0	0.00	0.00	3,930.0	0.0	0.0	0.0	0.00	0.00	0.00
3,960.0	0.00	0.00	3,960.0	0.0	0.0	0.0	0.00	0.00	0.00
3,990.0	0.00	0.00	3,990.0	0.0	0.0	0.0	0.00	0.00	0.00
4,020.0	0.00	0.00	4,020.0	0.0	0.0	0.0	0.00	0.00	0.00
4,050.0	0.00	0.00	4,050.0	0.0	0.0	0.0	0.00	0.00	0.00
4,080.0	0.00	0.00	4,080.0	0.0	0.0	0.0	0.00	0.00	0.00
4,110.0	0.00	0.00	4,110.0	0.0	0.0	0.0	0.00	0.00	0.00
4,140.0	0.00	0.00	4,140.0	0.0	0.0	0.0	0.00	0.00	0.00
4,170.0	0.00	0.00	4,170.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,230.0	0.00	0.00	4,230.0	0.0	0.0	0.0	0.00	0.00	0.00
4,260.0	0.00	0.00	4,260.0	0.0	0.0	0.0	0.00	0.00	0.00
4,290.0	0.00	0.00	4,290.0	0.0	0.0	0.0	0.00	0.00	0.00
4,320.0	0.00	0.00	4,320.0	0.0	0.0	0.0	0.00	0.00	0.00
4,350.0	0.00	0.00	4,350.0	0.0	0.0	0.0	0.00	0.00	0.00
4,380.0	0.00	0.00	4,380.0	0.0	0.0	0.0	0.00	0.00	0.00
4,410.0	0.00	0.00	4,410.0	0.0	0.0	0.0	0.00	0.00	0.00
4,440.0	0.00	0.00	4,440.0	0.0	0.0	0.0	0.00	0.00	0.00
4,470.0	0.00	0.00	4,470.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,530.0	0.00	0.00	4,530.0	0.0	0.0	0.0	0.00	0.00	0.00
4,560.0	0.00	0.00	4,560.0	0.0	0.0	0.0	0.00	0.00	0.00
4,590.0	0.00	0.00	4,590.0	0.0	0.0	0.0	0.00	0.00	0.00
4,620.0	0.00	0.00	4,620.0	0.0	0.0	0.0	0.00	0.00	0.00
4,650.0	0.00	0.00	4,650.0	0.0	0.0	0.0	0.00	0.00	0.00
4,680.0	0.00	0.00	4,680.0	0.0	0.0	0.0	0.00	0.00	0.00
4,710.0	0.00	0.00	4,710.0	0.0	0.0	0.0	0.00	0.00	0.00
4,740.0	0.00	0.00	4,740.0	0.0	0.0	0.0	0.00	0.00	0.00

Quantum Planning Report

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Project: Eddy County (NM27E)
Site: Sec 3 T22S R26E
Well: Perfecto 2 State #2
Wellbore: Original Hole
Design: Plan 02-22-07

Local Co-ordinate Reference: Well Perfecto 2 State #2
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
4,770.0	0.00	0.00	4,770.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,830.0	0.00	0.00	4,830.0	0.0	0.0	0.0	0.00	0.00	0.00
4,860.0	0.00	0.00	4,860.0	0.0	0.0	0.0	0.00	0.00	0.00
4,890.0	0.00	0.00	4,890.0	0.0	0.0	0.0	0.00	0.00	0.00
4,920.0	0.00	0.00	4,920.0	0.0	0.0	0.0	0.00	0.00	0.00
4,950.0	0.00	0.00	4,950.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 3.00									
4,980.0	0.90	150.36	4,980.0	-0.2	0.1	0.2	3.00	3.00	0.00
5,010.0	1.80	150.36	5,010.0	-0.8	0.5	0.9	3.00	3.00	0.00
5,040.0	2.70	150.36	5,040.0	-1.8	1.0	2.1	3.00	3.00	0.00
5,070.0	3.60	150.36	5,069.9	-3.3	1.9	3.8	3.00	3.00	0.00
5,100.0	4.50	150.36	5,099.8	-5.1	2.9	5.9	3.00	3.00	0.00
5,130.0	5.40	150.36	5,129.7	-7.4	4.2	8.5	3.00	3.00	0.00
5,160.0	6.30	150.36	5,159.6	-10.0	5.7	11.5	3.00	3.00	0.00
5,190.0	7.20	150.36	5,189.4	-13.1	7.4	15.1	3.00	3.00	0.00
5,220.0	8.10	150.36	5,219.1	-16.6	9.4	19.1	3.00	3.00	0.00
5,250.0	9.00	150.36	5,248.8	-20.4	11.6	23.5	3.00	3.00	0.00
5,280.0	9.90	150.36	5,278.4	-24.7	14.1	28.4	3.00	3.00	0.00
5,310.0	10.80	150.36	5,307.9	-29.4	16.7	33.8	3.00	3.00	0.00
5,340.0	11.70	150.36	5,337.3	-34.5	19.6	39.7	3.00	3.00	0.00
5,370.0	12.60	150.36	5,366.6	-40.0	22.7	46.0	3.00	3.00	0.00
5,400.0	13.50	150.36	5,395.8	-45.9	26.1	52.8	3.00	3.00	0.00
5,430.0	14.40	150.36	5,425.0	-52.2	29.7	60.0	3.00	3.00	0.00
5,460.0	15.30	150.36	5,454.0	-58.8	33.5	67.7	3.00	3.00	0.00
5,490.0	16.20	150.36	5,482.8	-65.9	37.5	75.8	3.00	3.00	0.00
5,520.0	17.10	150.36	5,511.6	-73.4	41.8	84.4	3.00	3.00	0.00
5,550.0	18.00	150.36	5,540.2	-81.2	46.2	93.5	3.00	3.00	0.00
5,580.0	18.90	150.36	5,568.6	-89.5	50.9	103.0	3.00	3.00	0.00
5,610.0	19.80	150.36	5,596.9	-98.1	55.8	112.9	3.00	3.00	0.00
5,628.3	20.35	150.36	5,614.1	-103.6	58.9	119.2	3.00	3.00	0.00
EOC - Start 3827.8 hold at 5628.3 MD									
5,640.0	20.35	150.36	5,625.1	-107.1	61.0	123.3	0.00	0.00	0.00
5,670.0	20.35	150.36	5,653.2	-116.2	66.1	133.7	0.00	0.00	0.00
5,700.0	20.35	150.36	5,681.4	-125.3	71.3	144.1	0.00	0.00	0.00
5,730.0	20.35	150.36	5,709.5	-134.3	76.4	154.6	0.00	0.00	0.00
5,760.0	20.35	150.36	5,737.6	-143.4	81.6	165.0	0.00	0.00	0.00
5,790.0	20.35	150.36	5,765.7	-152.5	86.8	175.4	0.00	0.00	0.00
5,820.0	20.35	150.36	5,793.9	-161.5	91.9	185.9	0.00	0.00	0.00
5,850.0	20.35	150.36	5,822.0	-170.6	97.1	196.3	0.00	0.00	0.00
5,880.0	20.35	150.36	5,850.1	-179.7	102.2	206.7	0.00	0.00	0.00
5,910.0	20.35	150.36	5,878.2	-188.7	107.4	217.1	0.00	0.00	0.00
5,940.0	20.35	150.36	5,906.4	-197.8	112.5	227.6	0.00	0.00	0.00
5,970.0	20.35	150.36	5,934.5	-206.9	117.7	238.0	0.00	0.00	0.00
6,000.0	20.35	150.36	5,962.6	-215.9	122.9	248.4	0.00	0.00	0.00
6,030.0	20.35	150.36	5,990.8	-225.0	128.0	258.9	0.00	0.00	0.00
6,060.0	20.35	150.36	6,018.9	-234.1	133.2	269.3	0.00	0.00	0.00
6,090.0	20.35	150.36	6,047.0	-243.1	138.3	279.7	0.00	0.00	0.00
6,120.0	20.35	150.36	6,075.1	-252.2	143.5	290.2	0.00	0.00	0.00
6,150.0	20.35	150.36	6,103.3	-261.3	148.7	300.6	0.00	0.00	0.00
6,180.0	20.35	150.36	6,131.4	-270.3	153.8	311.0	0.00	0.00	0.00
6,210.0	20.35	150.36	6,159.5	-279.4	159.0	321.5	0.00	0.00	0.00
6,240.0	20.35	150.36	6,187.7	-288.5	164.1	331.9	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature

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)
6,270.0	20.35	150.36	6,215.8	-297.5	169.3	342.3	0.00	0.00	0.00
6,300.0	20.35	150.36	6,243.9	-306.6	174.5	352.8	0.00	0.00	0.00
6,330.0	20.35	150.36	6,272.0	-315.7	179.6	363.2	0.00	0.00	0.00
6,360.0	20.35	150.36	6,300.2	-324.7	184.8	373.6	0.00	0.00	0.00
6,390.0	20.35	150.36	6,328.3	-333.8	189.9	384.1	0.00	0.00	0.00
6,420.0	20.35	150.36	6,356.4	-342.9	195.1	394.5	0.00	0.00	0.00
6,450.0	20.35	150.36	6,384.5	-351.9	200.3	404.9	0.00	0.00	0.00
6,480.0	20.35	150.36	6,412.7	-361.0	205.4	415.4	0.00	0.00	0.00
6,510.0	20.35	150.36	6,440.8	-370.1	210.6	425.8	0.00	0.00	0.00
6,540.0	20.35	150.36	6,468.9	-379.2	215.7	436.2	0.00	0.00	0.00
6,570.0	20.35	150.36	6,497.1	-388.2	220.9	446.7	0.00	0.00	0.00
6,600.0	20.35	150.36	6,525.2	-397.3	226.0	457.1	0.00	0.00	0.00
6,630.0	20.35	150.36	6,553.3	-406.4	231.2	467.5	0.00	0.00	0.00
6,660.0	20.35	150.36	6,581.4	-415.4	236.4	478.0	0.00	0.00	0.00
6,690.0	20.35	150.36	6,609.6	-424.5	241.5	488.4	0.00	0.00	0.00
6,720.0	20.35	150.36	6,637.7	-433.6	246.7	498.8	0.00	0.00	0.00
6,750.0	20.35	150.36	6,665.8	-442.6	251.8	509.3	0.00	0.00	0.00
6,780.0	20.35	150.36	6,694.0	-451.7	257.0	519.7	0.00	0.00	0.00
6,810.0	20.35	150.36	6,722.1	-460.8	262.2	530.1	0.00	0.00	0.00
6,840.0	20.35	150.36	6,750.2	-469.8	267.3	540.6	0.00	0.00	0.00
6,870.0	20.35	150.36	6,778.3	-478.9	272.5	551.0	0.00	0.00	0.00
6,900.0	20.35	150.36	6,806.5	-488.0	277.6	561.4	0.00	0.00	0.00
6,930.0	20.35	150.36	6,834.6	-497.0	282.8	571.8	0.00	0.00	0.00
6,960.0	20.35	150.36	6,862.7	-506.1	288.0	582.3	0.00	0.00	0.00
6,990.0	20.35	150.36	6,890.8	-515.2	293.1	592.7	0.00	0.00	0.00
7,020.0	20.35	150.36	6,919.0	-524.2	298.3	603.1	0.00	0.00	0.00
7,050.0	20.35	150.36	6,947.1	-533.3	303.4	613.6	0.00	0.00	0.00
7,080.0	20.35	150.36	6,975.2	-542.4	308.6	624.0	0.00	0.00	0.00
7,110.0	20.35	150.36	7,003.4	-551.4	313.8	634.4	0.00	0.00	0.00
7,140.0	20.35	150.36	7,031.5	-560.5	318.9	644.9	0.00	0.00	0.00
7,170.0	20.35	150.36	7,059.6	-569.6	324.1	655.3	0.00	0.00	0.00
7,200.0	20.35	150.36	7,087.7	-578.6	329.2	665.7	0.00	0.00	0.00
7,230.0	20.35	150.36	7,115.9	-587.7	334.4	676.2	0.00	0.00	0.00
7,260.0	20.35	150.36	7,144.0	-596.8	339.5	686.6	0.00	0.00	0.00
7,290.0	20.35	150.36	7,172.1	-605.8	344.7	697.0	0.00	0.00	0.00
7,320.0	20.35	150.36	7,200.3	-614.9	349.9	707.5	0.00	0.00	0.00
7,350.0	20.35	150.36	7,228.4	-624.0	355.0	717.9	0.00	0.00	0.00
7,380.0	20.35	150.36	7,256.5	-633.0	360.2	728.3	0.00	0.00	0.00
7,410.0	20.35	150.36	7,284.6	-642.1	365.3	738.8	0.00	0.00	0.00
7,440.0	20.35	150.36	7,312.8	-651.2	370.5	749.2	0.00	0.00	0.00
7,470.0	20.35	150.36	7,340.9	-660.2	375.7	759.6	0.00	0.00	0.00
7,500.0	20.35	150.36	7,369.0	-669.3	380.8	770.1	0.00	0.00	0.00
7,530.0	20.35	150.36	7,397.1	-678.4	386.0	780.5	0.00	0.00	0.00
7,560.0	20.35	150.36	7,425.3	-687.4	391.1	790.9	0.00	0.00	0.00
7,590.0	20.35	150.36	7,453.4	-696.5	396.3	801.4	0.00	0.00	0.00
7,620.0	20.35	150.36	7,481.5	-705.6	401.5	811.8	0.00	0.00	0.00
7,650.0	20.35	150.36	7,509.7	-714.6	406.6	822.2	0.00	0.00	0.00
7,680.0	20.35	150.36	7,537.8	-723.7	411.8	832.7	0.00	0.00	0.00
7,710.0	20.35	150.36	7,565.9	-732.8	416.9	843.1	0.00	0.00	0.00
7,740.0	20.35	150.36	7,594.0	-741.8	422.1	853.5	0.00	0.00	0.00
7,770.0	20.35	150.36	7,622.2	-750.9	427.3	864.0	0.00	0.00	0.00
7,800.0	20.35	150.36	7,650.3	-760.0	432.4	874.4	0.00	0.00	0.00
7,830.0	20.35	150.36	7,678.4	-769.0	437.6	884.8	0.00	0.00	0.00
7,860.0	20.35	150.36	7,706.5	-778.1	442.7	895.2	0.00	0.00	0.00

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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)
7,890.0	20.35	150.36	7,734.7	-787.2	447.9	905.7	0.00	0.00	0.00
7,920.0	20.35	150.36	7,762.8	-796.2	453.0	916.1	0.00	0.00	0.00
7,950.0	20.35	150.36	7,790.9	-805.3	458.2	926.5	0.00	0.00	0.00
7,980.0	20.35	150.36	7,819.1	-814.4	463.4	937.0	0.00	0.00	0.00
8,010.0	20.35	150.36	7,847.2	-823.5	468.5	947.4	0.00	0.00	0.00
8,040.0	20.35	150.36	7,875.3	-832.5	473.7	957.8	0.00	0.00	0.00
8,070.0	20.35	150.36	7,903.4	-841.6	478.8	968.3	0.00	0.00	0.00
8,100.0	20.35	150.36	7,931.6	-850.7	484.0	978.7	0.00	0.00	0.00
8,130.0	20.35	150.36	7,959.7	-859.7	489.2	989.1	0.00	0.00	0.00
8,160.0	20.35	150.36	7,987.8	-868.8	494.3	999.6	0.00	0.00	0.00
8,190.0	20.35	150.36	8,016.0	-877.9	499.5	1,010.0	0.00	0.00	0.00
8,220.0	20.35	150.36	8,044.1	-886.9	504.6	1,020.4	0.00	0.00	0.00
8,250.0	20.35	150.36	8,072.2	-896.0	509.8	1,030.9	0.00	0.00	0.00
8,280.0	20.35	150.36	8,100.3	-905.1	515.0	1,041.3	0.00	0.00	0.00
8,310.0	20.35	150.36	8,128.5	-914.1	520.1	1,051.7	0.00	0.00	0.00
8,340.0	20.35	150.36	8,156.6	-923.2	525.3	1,062.2	0.00	0.00	0.00
8,370.0	20.35	150.36	8,184.7	-932.3	530.4	1,072.6	0.00	0.00	0.00
8,400.0	20.35	150.36	8,212.8	-941.3	535.6	1,083.0	0.00	0.00	0.00
8,430.0	20.35	150.36	8,241.0	-950.4	540.8	1,093.5	0.00	0.00	0.00
8,460.0	20.35	150.36	8,269.1	-959.5	545.9	1,103.9	0.00	0.00	0.00
8,490.0	20.35	150.36	8,297.2	-968.5	551.1	1,114.3	0.00	0.00	0.00
8,520.0	20.35	150.36	8,325.4	-977.6	556.2	1,124.8	0.00	0.00	0.00
8,550.0	20.35	150.36	8,353.5	-986.7	561.4	1,135.2	0.00	0.00	0.00
8,580.0	20.35	150.36	8,381.6	-995.7	566.5	1,145.6	0.00	0.00	0.00
8,610.0	20.35	150.36	8,409.7	-1,004.8	571.7	1,156.1	0.00	0.00	0.00
8,640.0	20.35	150.36	8,437.9	-1,013.9	576.9	1,166.5	0.00	0.00	0.00
8,670.0	20.35	150.36	8,466.0	-1,022.9	582.0	1,176.9	0.00	0.00	0.00
8,700.0	20.35	150.36	8,494.1	-1,032.0	587.2	1,187.4	0.00	0.00	0.00
8,730.0	20.35	150.36	8,522.3	-1,041.1	592.3	1,197.8	0.00	0.00	0.00
8,760.0	20.35	150.36	8,550.4	-1,050.1	597.5	1,208.2	0.00	0.00	0.00
8,790.0	20.35	150.36	8,578.5	-1,059.2	602.7	1,218.6	0.00	0.00	0.00
8,820.0	20.35	150.36	8,606.6	-1,068.3	607.8	1,229.1	0.00	0.00	0.00
8,850.0	20.35	150.36	8,634.8	-1,077.3	613.0	1,239.5	0.00	0.00	0.00
8,880.0	20.35	150.36	8,662.9	-1,086.4	618.1	1,249.9	0.00	0.00	0.00
8,910.0	20.35	150.36	8,691.0	-1,095.5	623.3	1,260.4	0.00	0.00	0.00
8,940.0	20.35	150.36	8,719.1	-1,104.5	628.5	1,270.8	0.00	0.00	0.00
8,970.0	20.35	150.36	8,747.3	-1,113.6	633.6	1,281.2	0.00	0.00	0.00
9,000.0	20.35	150.36	8,775.4	-1,122.7	638.8	1,291.7	0.00	0.00	0.00
9,030.0	20.35	150.36	8,803.5	-1,131.7	643.9	1,302.1	0.00	0.00	0.00
9,060.0	20.35	150.36	8,831.7	-1,140.8	649.1	1,312.5	0.00	0.00	0.00
9,090.0	20.35	150.36	8,859.8	-1,149.9	654.3	1,323.0	0.00	0.00	0.00
9,120.0	20.35	150.36	8,887.9	-1,158.9	659.4	1,333.4	0.00	0.00	0.00
9,150.0	20.35	150.36	8,916.0	-1,168.0	664.6	1,343.8	0.00	0.00	0.00
9,180.0	20.35	150.36	8,944.2	-1,177.1	669.7	1,354.3	0.00	0.00	0.00
9,210.0	20.35	150.36	8,972.3	-1,186.1	674.9	1,364.7	0.00	0.00	0.00
9,240.0	20.35	150.36	9,000.4	-1,195.2	680.0	1,375.1	0.00	0.00	0.00
9,270.0	20.35	150.36	9,028.6	-1,204.3	685.2	1,385.6	0.00	0.00	0.00
9,300.0	20.35	150.36	9,056.7	-1,213.3	690.4	1,396.0	0.00	0.00	0.00
9,330.0	20.35	150.36	9,084.8	-1,222.4	695.5	1,406.4	0.00	0.00	0.00
9,360.0	20.35	150.36	9,112.9	-1,231.5	700.7	1,416.9	0.00	0.00	0.00
9,390.0	20.35	150.36	9,141.1	-1,240.5	705.8	1,427.3	0.00	0.00	0.00
9,420.0	20.35	150.36	9,169.2	-1,249.6	711.0	1,437.7	0.00	0.00	0.00
9,450.0	20.35	150.36	9,197.3	-1,258.7	716.2	1,448.2	0.00	0.00	0.00

Quantum Planning Report

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Project: Eddy County (NM27E)
Site: Sec 3 T22S R26E
Well: Perfecto 2 State #2
Wellbore: Original Hole
Design: Plan 02-22-07

Local Co-ordinate Reference: Well Perfecto 2 State #2
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
9,456.1	20.35	150.36	9,203.0	-1,260.5	717.2	1,450.3	0.00	0.00	0.00
Begin Drop DLS 2.50 TFO -180.00									
9,480.0	19.75	150.36	9,225.5	-1,267.6	721.3	1,458.5	2.50	-2.50	0.00
9,510.0	19.00	150.36	9,253.8	-1,276.3	726.2	1,468.4	2.50	-2.50	0.00
9,540.0	18.25	150.36	9,282.2	-1,284.6	730.9	1,478.0	2.50	-2.50	0.00
9,570.0	17.50	150.36	9,310.8	-1,292.6	735.5	1,487.2	2.50	-2.50	0.00
9,600.0	16.75	150.36	9,339.4	-1,300.3	739.8	1,496.1	2.50	-2.50	0.00
9,630.0	16.00	150.36	9,368.2	-1,307.7	744.0	1,504.5	2.50	-2.50	0.00
9,660.0	15.25	150.36	9,397.1	-1,314.7	748.0	1,512.6	2.50	-2.50	0.00
9,690.0	14.50	150.36	9,426.1	-1,321.4	751.8	1,520.3	2.50	-2.50	0.00
9,720.0	13.75	150.36	9,455.2	-1,327.7	755.5	1,527.6	2.50	-2.50	0.00
9,750.0	13.00	150.36	9,484.4	-1,333.8	758.9	1,534.6	2.50	-2.50	0.00
9,780.0	12.25	150.36	9,513.7	-1,339.5	762.1	1,541.1	2.50	-2.50	0.00
9,810.0	11.50	150.36	9,543.0	-1,344.8	765.2	1,547.3	2.50	-2.50	0.00
9,840.0	10.75	150.36	9,572.5	-1,349.9	768.0	1,553.1	2.50	-2.50	0.00
9,870.0	10.00	150.36	9,602.0	-1,354.6	770.7	1,558.5	2.50	-2.50	0.00
9,900.0	9.25	150.36	9,631.5	-1,358.9	773.2	1,563.5	2.50	-2.50	0.00
9,930.0	8.50	150.36	9,661.2	-1,363.0	775.5	1,568.1	2.50	-2.50	0.00
9,960.0	7.75	150.36	9,690.9	-1,366.6	777.6	1,572.4	2.50	-2.50	0.00
9,990.0	7.00	150.36	9,720.6	-1,370.0	779.5	1,576.2	2.50	-2.50	0.00
10,020.0	6.25	150.36	9,750.4	-1,373.0	781.2	1,579.7	2.50	-2.50	0.00
10,050.0	5.50	150.36	9,780.3	-1,375.7	782.7	1,582.8	2.50	-2.50	0.00
10,080.0	4.75	150.36	9,810.2	-1,378.0	784.0	1,585.4	2.50	-2.50	0.00
10,110.0	4.00	150.36	9,840.1	-1,380.0	785.2	1,587.7	2.50	-2.50	0.00
10,140.0	3.25	150.36	9,870.0	-1,381.6	786.1	1,589.6	2.50	-2.50	0.00
10,170.0	2.50	150.36	9,900.0	-1,382.9	786.9	1,591.1	2.50	-2.50	0.00
10,200.0	1.75	150.36	9,929.9	-1,383.9	787.4	1,592.2	2.50	-2.50	0.00
10,230.0	1.00	150.36	9,959.9	-1,384.5	787.8	1,593.0	2.50	-2.50	0.00
10,260.0	0.25	150.36	9,989.9	-1,384.8	787.9	1,593.3	2.50	-2.50	0.00
10,270.1	0.00	0.00	10,000.0	-1,384.8	787.9	1,593.3	2.50	-2.50	0.00
Start 1900.0 hold at 10270.1 MD - Target 1									
10,290.0	0.00	0.00	10,019.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,320.0	0.00	0.00	10,049.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,350.0	0.00	0.00	10,079.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,380.0	0.00	0.00	10,109.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,410.0	0.00	0.00	10,139.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,440.0	0.00	0.00	10,169.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,470.0	0.00	0.00	10,199.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,229.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,530.0	0.00	0.00	10,259.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,560.0	0.00	0.00	10,289.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,590.0	0.00	0.00	10,319.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,620.0	0.00	0.00	10,349.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,650.0	0.00	0.00	10,379.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,680.0	0.00	0.00	10,409.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,710.0	0.00	0.00	10,439.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,740.0	0.00	0.00	10,469.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,770.0	0.00	0.00	10,499.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,529.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,830.0	0.00	0.00	10,559.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,860.0	0.00	0.00	10,589.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,890.0	0.00	0.00	10,619.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,920.0	0.00	0.00	10,649.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00

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North Reference: True
Survey Calculation Method: Minimum Curvature

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)
10,950.0	0.00	0.00	10,679.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
10,980.0	0.00	0.00	10,709.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,010.0	0.00	0.00	10,739.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,040.0	0.00	0.00	10,769.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,070.0	0.00	0.00	10,799.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,829.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,130.0	0.00	0.00	10,859.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,160.0	0.00	0.00	10,889.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,190.0	0.00	0.00	10,919.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,220.0	0.00	0.00	10,949.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,250.0	0.00	0.00	10,979.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,280.0	0.00	0.00	11,009.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,310.0	0.00	0.00	11,039.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,340.0	0.00	0.00	11,069.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,370.0	0.00	0.00	11,099.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,129.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,430.0	0.00	0.00	11,159.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,460.0	0.00	0.00	11,189.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,490.0	0.00	0.00	11,219.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,520.0	0.00	0.00	11,249.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,550.0	0.00	0.00	11,279.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,580.0	0.00	0.00	11,309.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,610.0	0.00	0.00	11,339.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,640.0	0.00	0.00	11,369.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,670.0	0.00	0.00	11,399.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,429.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,730.0	0.00	0.00	11,459.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,760.0	0.00	0.00	11,489.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,790.0	0.00	0.00	11,519.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,820.0	0.00	0.00	11,549.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,850.0	0.00	0.00	11,579.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,880.0	0.00	0.00	11,609.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,910.0	0.00	0.00	11,639.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,940.0	0.00	0.00	11,669.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
11,970.0	0.00	0.00	11,699.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,000.0	0.00	0.00	11,729.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,030.0	0.00	0.00	11,759.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,060.0	0.00	0.00	11,789.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,090.0	0.00	0.00	11,819.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,120.0	0.00	0.00	11,849.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,150.0	0.00	0.00	11,879.9	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
12,170.1	0.00	0.00	11,900.0	-1,384.8	787.9	1,593.3	0.00	0.00	0.00
PBHL									

Quantum

Planning Report

Database: EDM 2003.16 Single User Db
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Site: Sec 3 T22S R26E
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Wellbore: Original Hole
Design: Plan 02-22-07

Local Co-ordinate Reference: Well Perfecto 2 State #2
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MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Target 1 - plan hits target - Point	0.00	0.00	10,000.0	-1,384.8	787.9	517,846.10	869,457.21	32° 25' 8.898 N	103° 16' 12.008 W
PBHL - plan hits target - Point	0.00	0.00	11,900.0	-1,384.8	787.9	517,846.10	869,457.21	32° 25' 8.898 N	103° 16' 12.008 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
0.0	0.0	0.0	0.0	SHL
4,950.0	4,950.0	0.0	0.0	KOP - Start Build 3.00
5,628.3	5,614.1	-103.6	58.9	EOC - Start 3827.8 hold at 5628.3 MD
9,456.1	9,203.0	-1,260.5	717.2	Begin Drop DLS 2.50 TFO -180.00
10,270.1	10,000.0	-1,384.8	787.9	Start 1900.0 hold at 10270.1 MD
12,170.1	11,900.0	-1,384.8	787.9	TD at 11900.0

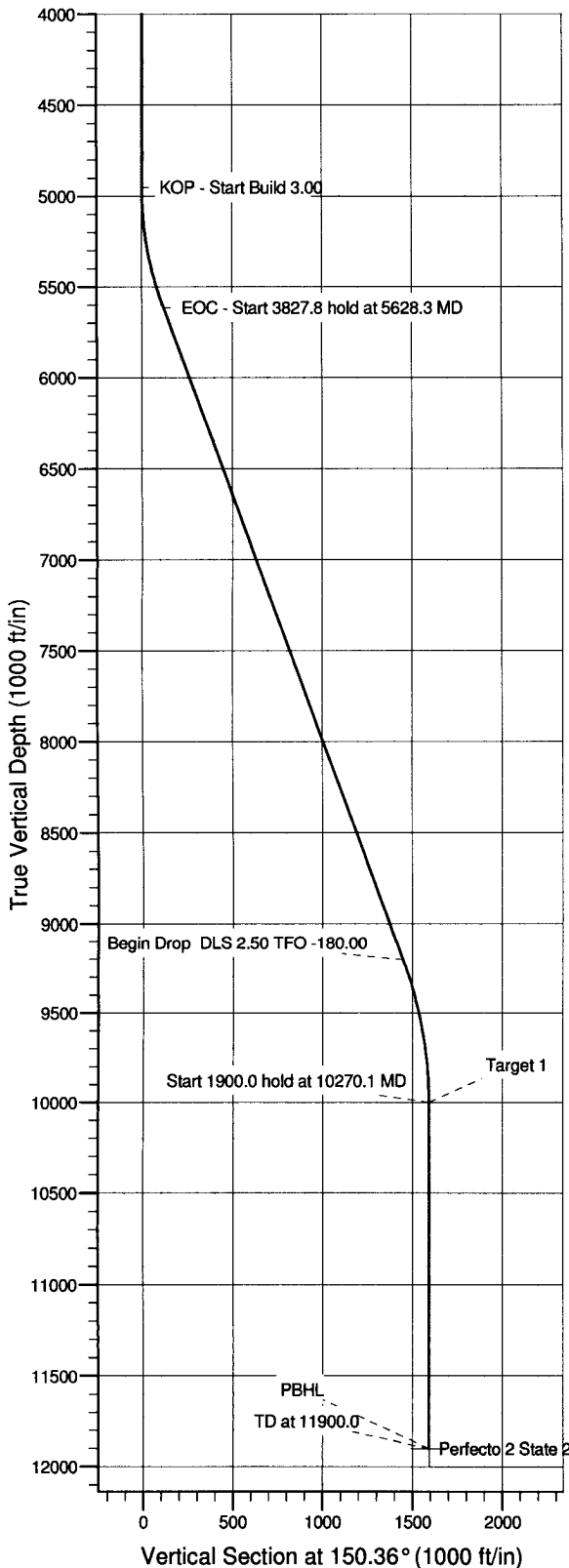
Devon Energy

Project: Eddy County (NM27E)
Site: Sec 3 T22S R26E
Well: Perfecto 2 State #2
Wellbore: Original Hole
Design: Plan 02-22-07



Azimuths to True North
Magnetic North: 7.97°

Magnetic Field
Strength: 49249.9snT
Dip Angle: 60.54°
Date: 2/22/2007
Model: IGRF200510



WELL DETAILS: Perfecto 2 State #2

+N/-S	+E/-W	Northing	Ground Level: Easting	0.0 Latitude	Longitude	Slot
0.0	0.0	519223.05	868655.56	32° 25' 22.600 N	103° 16' 21.200 W	

FORMATION TOP DETAILS

No formation data is available

ANNOTATIONS

TVD	MD	Annotation
0.0	0.0	SHL
4950.0	4950.0	KOP - Start Build 3.00
5614.1	5628.3	EOC - Start 3827.8 hold at 5628.3 MD
9203.0	9456.1	Begin Drop DLS 2.50 TFO -180.00
10000.0	10270.1	Start 1900.0 hold at 10270.1 MD
11900.0	12170.1	TD at 11900.0

SECTION DETAILS

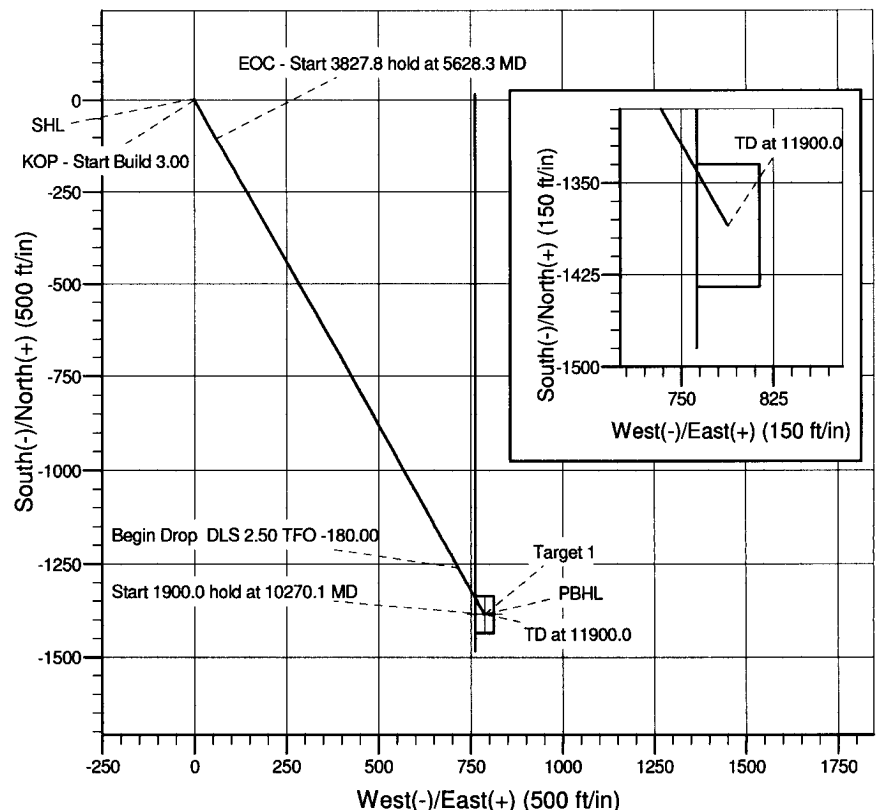
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4950.0	0.00	0.00	4950.0	0.0	0.0	0.00	0.00	0.0	
3	5628.3	20.35	150.36	5614.1	-103.6	58.9	3.00	150.36	119.2	
4	9456.1	20.35	150.36	9203.0	-1260.5	717.2	0.00	0.00	1450.3	
5	10270.1	0.00	0.00	10000.0	-1384.8	787.9	2.50	-180.00	1593.3	Target 1
6	12170.1	0.00	0.00	11900.0	-1384.8	787.9	0.00	0.00	1593.3	PBHL

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Target 1	10000.0	-1384.8	787.9	517846.10	869457.21	32° 25' 8.898 N	103° 16' 12.008 W	Point
PBHL	11900.0	-1384.8	787.9	517846.10	869457.21	32° 25' 8.898 N	103° 16' 12.008 W	Point



Magnetic Calculator Results

magnetic.txt

Geomagnetic Model : IGRF200510

Latitude : 32° 25' 22.600 N

Longitude : 103° 16' 21.200 W

Sample Date : 2/23/2007

Vertical Depth : 0.0

Azimuth of Magnetic North: 7.969° True

Magnetic Declination : 7.969°E from True North

Dip Angle from Horizontal: 60.542°

Magnetic Field Strength : 49250 nT

Magnetic Field X value : 23986 nT

Magnetic Field Y value : 3358 nT

Magnetic Field Z value : 42883 nT

Magnetic Field Horizontal: 24220 nT

Magnetic Azimuth Apply : 7.97 to convert to True North

Gyroscope Azimuth Apply : 0.00 to convert to True North