

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
 Site: Cotton Draw Unit
 Well: 214H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.32°
 Magnetic North: 7.09°

Magnetic Field
 Strength: 48368.6nT
 Dip Angle: 60.07°
 Date: 06/26/2013
 Model: IGRF2010

devon

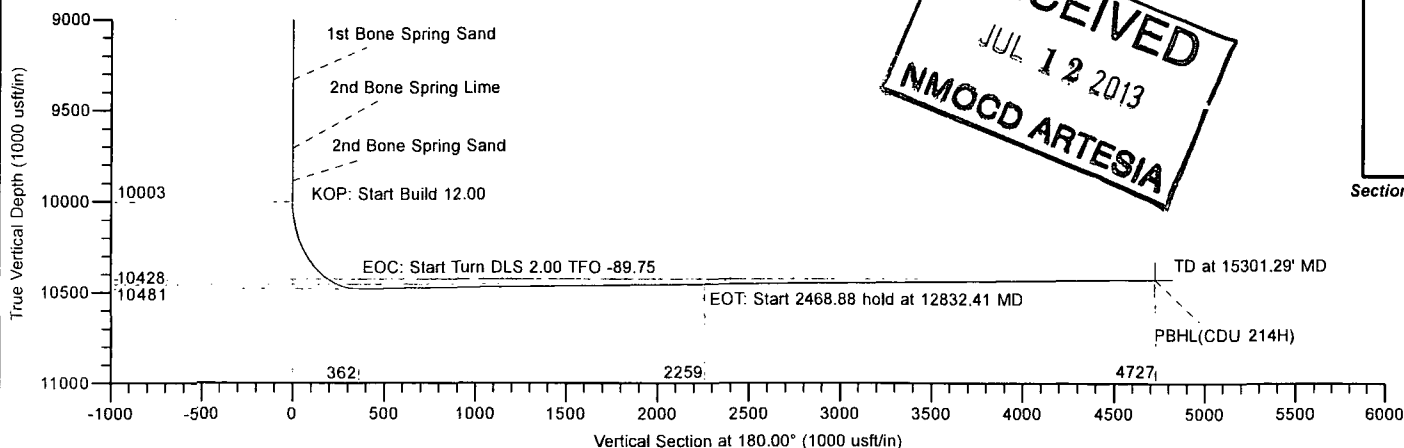
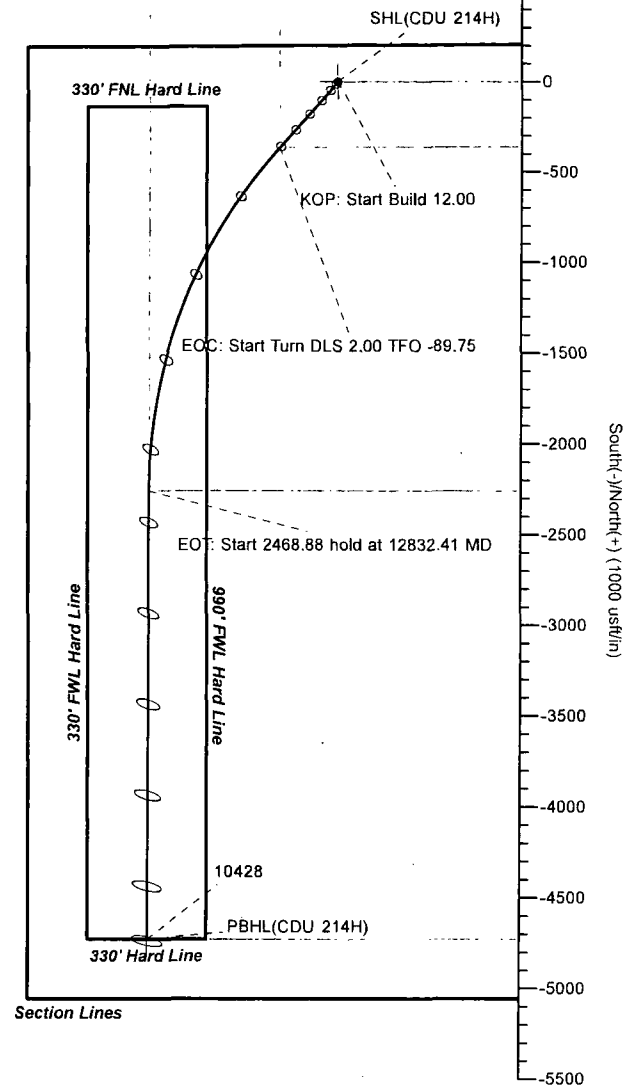
West(-)/East(+) (1000 usft/in)
 -2000 -1500 -1000 -500 0 500 1000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(CDU 214H)	0.00	0.00	0.00	429929.49	726601.24 32° 10' 49.931 N	103° 44' 4.250 W	
PBHL(CDU 214H)	10428.00	-4727.47	-1037.92	425202.02	725563.32 32° 10' 3.207 N	103° 44' 16.631 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	10003.57	0.00	0.00	10003.57	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 12.00
3	10759.03	90.65	221.47	10481.00	-361.85	-319.81	12.00	221.47	361.85	EOC: Start Turn DLS 2.00 TFO -89.75
4	12832.41	90.65	180.00	10456.21	-2258.75	-1037.92	2.00	-89.75	2258.75	EOT: Start 2468.88 hold at 12832.41 MD
5	15301.29	90.65	180.00	10428.00	-4727.47	-1037.92	0.00	0.00	4727.47	TD at 15301.29' MD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (214H/OH)
 Cotton Draw Unit
 Created By: Tyler Carlson Date: 15:22, June 26 2013
 Date: _____
 Approved: _____ Date: _____

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 214H
Company:	DEVON ENERGY	TVD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Cotton Draw Unit		
Site Position:		Northing:	419,194.51 usft
From:	Map	Easting:	722,955.98 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 3.901 N
		Longitude:	103° 44' 47.345 W
		Grid Convergence:	0.31 °

Well	214H		
Well Position	+N/-S	10,734.98 usft	Northing:
	+E/-W	3,645.26 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	429,929.49 usft
		Ground Level:	3,508.00 usft
		Latitude:	32° 10' 49.931 N
		Longitude:	103° 44' 4.250 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	06/26/13	7.41
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,369

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			180.00

Plan Sections:										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,003.57	0.00	0.00	10,003.57	0.00	0.00	0.00	0.00	0.00	0.00	
10,759.03	90.66	221.47	10,481.00	-361.85	-319.81	12.00	12.00	0.00	221.47	
12,832.41	90.65	180.00	10,456.21	-2,258.75	-1,037.92	2.00	0.00	-2.00	-89.75	
15,301.29	90.65	180.00	10,428.00	-4,727.47	-1,037.92	0.00	0.00	0.00	0.00	PBHL(CDU 214H)

LEAM Drilling Systems LLC

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Site:	Cotton Draw Unit	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
597.00	0.00	0.00	597.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSTLER									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
992.00	0.00	0.00	992.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP SALT									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,798.00	0.00	0.00	2,798.00	0.00	0.00	0.00	0.00	0.00	0.00
CASTLE									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,405.00	0.00	0.00	4,405.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

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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)
Bell Canyon									
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,294.00	0.00	0.00	5,294.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,619.00	0.00	0.00	6,619.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,201.00	0.00	0.00	8,201.00	0.00	0.00	0.00	0.00	0.00	0.00
1st Bone Spring Lime									
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00

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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)
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,332.00	0.00	0.00	9,332.00	0.00	0.00	0.00	0.00	0.00	0.00
1st Bone Spring Sand									
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,709.00	0.00	0.00	9,709.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd Bone Spring Lime									
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,888.00	0.00	0.00	9,888.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd Bone Spring Sand									
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,003.57	0.00	0.00	10,003.57	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 12.00									
10,025.00	2.57	221.47	10,024.99	-0.36	-0.32	0.36	12.00	12.00	0.00
10,050.00	5.57	221.47	10,049.93	-1.69	-1.49	1.69	12.00	12.00	0.00
10,075.00	8.57	221.47	10,074.73	-4.00	-3.53	4.00	12.00	12.00	0.00
10,100.00	11.57	221.47	10,099.35	-7.27	-6.43	7.27	12.00	12.00	0.00
10,125.00	14.57	221.47	10,123.70	-11.51	-10.17	11.51	12.00	12.00	0.00
10,150.00	17.57	221.47	10,147.72	-16.69	-14.75	16.69	12.00	12.00	0.00
10,175.00	20.57	221.47	10,171.34	-22.81	-20.16	22.81	12.00	12.00	0.00
10,200.00	23.57	221.47	10,194.51	-29.85	-26.38	29.85	12.00	12.00	0.00
10,225.00	26.57	221.47	10,217.15	-37.79	-33.40	37.79	12.00	12.00	0.00
10,250.00	29.57	221.47	10,239.20	-46.60	-41.19	46.60	12.00	12.00	0.00
10,275.00	32.57	221.47	10,260.61	-56.27	-49.73	56.27	12.00	12.00	0.00
10,300.00	35.57	221.47	10,281.32	-66.76	-59.01	66.76	12.00	12.00	0.00
10,325.00	38.57	221.47	10,301.27	-78.05	-68.98	78.05	12.00	12.00	0.00
10,350.00	41.57	221.47	10,320.39	-90.11	-79.64	90.11	12.00	12.00	0.00
10,375.00	44.57	221.47	10,338.66	-102.90	-90.95	102.90	12.00	12.00	0.00
10,400.00	47.57	221.47	10,356.00	-116.39	-102.87	116.39	12.00	12.00	0.00
10,425.00	50.57	221.47	10,372.37	-130.54	-115.37	130.54	12.00	12.00	0.00
10,450.00	53.57	221.47	10,387.74	-145.32	-128.43	145.32	12.00	12.00	0.00
10,475.00	56.57	221.47	10,402.05	-160.67	-142.00	160.67	12.00	12.00	0.00
10,500.00	59.57	221.47	10,415.27	-176.57	-156.05	176.57	12.00	12.00	0.00
10,525.00	62.57	221.47	10,427.36	-192.96	-170.54	192.96	12.00	12.00	0.00
10,550.00	65.57	221.47	10,438.29	-209.81	-185.43	209.81	12.00	12.00	0.00
10,575.00	68.57	221.47	10,448.03	-227.06	-200.68	227.06	12.00	12.00	0.00
10,600.00	71.57	221.47	10,456.55	-244.67	-216.24	244.67	12.00	12.00	0.00
10,625.00	74.57	221.47	10,463.83	-262.59	-232.08	262.59	12.00	12.00	0.00
10,650.00	77.57	221.47	10,469.85	-280.77	-248.14	280.77	12.00	12.00	0.00
10,675.00	80.57	221.47	10,474.59	-299.16	-264.40	299.16	12.00	12.00	0.00
10,700.00	83.57	221.47	10,478.03	-317.71	-280.79	317.71	12.00	12.00	0.00
10,725.00	86.57	221.47	10,480.18	-336.37	-297.28	336.37	12.00	12.00	0.00
10,750.00	89.57	221.47	10,481.02	-355.09	-313.83	355.09	12.00	12.00	0.00
10,759.03	90.66	221.47	10,481.00	-361.85	-319.81	361.85	12.00	12.00	0.00
EOC: Start Turn DLS 2.00 TFO -89.75									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 214H
Company:	DEVON ENERGY	TVD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
10,800.00	90.66	220.65	10,480.53	-392.74	-346.72	392.74	2.00	0.01	-2.00
10,900.00	90.67	218.65	10,479.38	-469.73	-410.52	469.73	2.00	0.01	-2.00
11,000.00	90.67	216.65	10,478.21	-548.89	-471.60	548.89	2.00	0.01	-2.00
11,100.00	90.68	214.65	10,477.03	-630.14	-529.88	630.14	2.00	0.01	-2.00
11,200.00	90.69	212.65	10,475.84	-713.38	-585.28	713.38	2.00	0.01	-2.00
11,300.00	90.69	210.65	10,474.64	-798.49	-637.75	798.49	2.00	0.00	-2.00
11,400.00	90.69	208.65	10,473.43	-885.39	-687.21	885.39	2.00	0.00	-2.00
11,500.00	90.70	206.65	10,472.22	-973.96	-733.62	973.96	2.00	0.00	-2.00
11,600.00	90.70	204.65	10,471.00	-1,064.09	-776.90	1,064.09	2.00	0.00	-2.00
11,700.00	90.70	202.65	10,469.78	-1,155.68	-817.01	1,155.68	2.00	0.00	-2.00
11,800.00	90.70	200.65	10,468.56	-1,248.61	-853.90	1,248.61	2.00	0.00	-2.00
11,900.00	90.70	198.65	10,467.33	-1,342.78	-887.52	1,342.78	2.00	0.00	-2.00
12,000.00	90.70	196.65	10,466.11	-1,438.06	-917.83	1,438.06	2.00	0.00	-2.00
12,100.00	90.70	194.65	10,464.90	-1,534.34	-944.81	1,534.34	2.00	0.00	-2.00
12,200.00	90.69	192.65	10,463.68	-1,631.51	-968.40	1,631.51	2.00	0.00	-2.00
12,300.00	90.69	190.65	10,462.48	-1,729.43	-988.59	1,729.43	2.00	0.00	-2.00
12,400.00	90.68	188.65	10,461.28	-1,828.01	-1,005.35	1,828.01	2.00	0.00	-2.00
12,500.00	90.68	186.65	10,460.09	-1,927.11	-1,018.66	1,927.11	2.00	-0.01	-2.00
12,600.00	90.67	184.65	10,458.91	-2,026.61	-1,028.50	2,026.61	2.00	-0.01	-2.00
12,700.00	90.67	182.65	10,457.74	-2,126.39	-1,034.86	2,126.39	2.00	-0.01	-2.00
12,800.00	90.66	180.65	10,456.59	-2,226.34	-1,037.74	2,226.34	2.00	-0.01	-2.00
12,832.41	90.65	180.00	10,456.21	-2,258.75	-1,037.92	2,258.75	2.00	-0.01	-2.00
EOT: Start 2468.88 hold at 12832.41 MD									
12,900.00	90.65	180.00	10,455.44	-2,326.33	-1,037.92	2,326.33	0.00	0.00	0.00
13,000.00	90.65	180.00	10,454.30	-2,426.33	-1,037.92	2,426.33	0.00	0.00	0.00
13,100.00	90.65	180.00	10,453.16	-2,526.32	-1,037.92	2,526.32	0.00	0.00	0.00
13,200.00	90.65	180.00	10,452.01	-2,626.31	-1,037.92	2,626.31	0.00	0.00	0.00
13,300.00	90.65	180.00	10,450.87	-2,726.31	-1,037.92	2,726.31	0.00	0.00	0.00
13,400.00	90.65	180.00	10,449.73	-2,826.30	-1,037.92	2,826.30	0.00	0.00	0.00
13,500.00	90.65	180.00	10,448.58	-2,926.29	-1,037.92	2,926.29	0.00	0.00	0.00
13,600.00	90.65	180.00	10,447.44	-3,026.29	-1,037.92	3,026.29	0.00	0.00	0.00
13,700.00	90.65	180.00	10,446.30	-3,126.28	-1,037.92	3,126.28	0.00	0.00	0.00
13,800.00	90.65	180.00	10,445.16	-3,226.27	-1,037.92	3,226.27	0.00	0.00	0.00
13,900.00	90.65	180.00	10,444.01	-3,326.27	-1,037.92	3,326.27	0.00	0.00	0.00
14,000.00	90.65	180.00	10,442.87	-3,426.26	-1,037.92	3,426.26	0.00	0.00	0.00
14,100.00	90.65	180.00	10,441.73	-3,526.25	-1,037.92	3,526.25	0.00	0.00	0.00
14,200.00	90.65	180.00	10,440.59	-3,626.25	-1,037.92	3,626.25	0.00	0.00	0.00
14,300.00	90.65	180.00	10,439.44	-3,726.24	-1,037.92	3,726.24	0.00	0.00	0.00
14,400.00	90.65	180.00	10,438.30	-3,826.23	-1,037.92	3,826.23	0.00	0.00	0.00
14,500.00	90.65	180.00	10,437.16	-3,926.23	-1,037.92	3,926.23	0.00	0.00	0.00
14,600.00	90.65	180.00	10,436.01	-4,026.22	-1,037.92	4,026.22	0.00	0.00	0.00
14,700.00	90.65	180.00	10,434.87	-4,126.22	-1,037.92	4,126.22	0.00	0.00	0.00
14,800.00	90.65	180.00	10,433.73	-4,226.21	-1,037.92	4,226.21	0.00	0.00	0.00
14,900.00	90.65	180.00	10,432.59	-4,326.20	-1,037.92	4,326.20	0.00	0.00	0.00
15,000.00	90.65	180.00	10,431.44	-4,426.20	-1,037.92	4,426.20	0.00	0.00	0.00
15,100.00	90.65	180.00	10,430.30	-4,526.19	-1,037.92	4,526.19	0.00	0.00	0.00
15,200.00	90.65	180.00	10,429.16	-4,626.18	-1,037.92	4,626.18	0.00	0.00	0.00
15,301.29	90.65	180.00	10,428.00	-4,727.47	-1,037.92	4,727.47	0.00	0.00	0.00
TD at 15301.29 MD									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 214H
Company:	DEVON ENERGY	TVD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3508' + KB 28' @ 3536.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
SHL(CDU 214H)	- plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	429,929.49	726,601.24	32° 10' 49.931 N 103° 44' 4.250 W
PBHL(CDU 214H)	- plan hits target center - Point	0.00	0.00	10,428.00	-4,727.47	-1,037.92	425,202.02	725,563.32	32° 10' 3.207 N 103° 44' 16.631 W

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
597.00	597.00	RUSTLER					
992.00	992.00	TOP SALT					
2,798.00	2,798.00	CASTILE					
4,405.00	4,405.00	Bell Canyon					
5,294.00	5,294.00	Cherry Canyon					
6,619.00	6,619.00	Brushy Canyon					
8,201.00	8,201.00	1st Bone Spring Lime					
9,332.00	9,332.00	1st Bone Spring Sand					
9,709.00	9,709.00	2nd Bone Spring Lime					
9,888.00	9,888.00	2nd Bone Spring Sand					

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,003.57	10,003.57	0.00	0.00	KOP: Start Build 12.00	
10,759.03	10,481.00	-361.85	-319.81	EOC: Start Turn DLS 2.00 TFO -89.75	
12,832.41	10,456.21	-2,258.75	-1,037.92	EOT: Start 2468.88 hold at 12832.41 MD	
15,301.29	10,428.00	-4,727.47	-1,037.92	TD at 15301.29' MD	