

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised August 1, 2011

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	7. Lease Name or Unit Agreement Name Burton Flat Deep Unit
2. Name of Operator Devon Energy Production Company, L.P.	8. Well Number #54H
3. Address of Operator 333 W. Sheridan, Oklahoma City, OK 73102	9. OGRID Number 6137
4. Well Location Unit Letter <u>M</u> feet <u>768'</u> from the <u>south</u> line and <u>50'</u> feet from the <u>west</u> line Section <u>2</u> Township <u>21S</u> Range <u>27E</u> NMPM <u>Eddy</u> , County	10. Pool name, or Wildcat Avalon; Bone Spring, East
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3214.4 (amended elevation)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: To change surface hole location ☒

OTHER: ☐

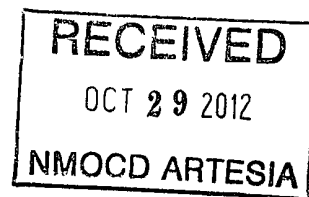
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., LP respectfully requests approval to change the surface hole location as follows:

Old location: SHL: 768' FSL, 50' FWL, Unit M, Section 2-21S-27E
BHL: 660' FSL, 330' FEL, Unit P, Section 2-21S-27E
TD: 11333', Production Casing set @ 11333'

TO

New location: SHL: 1570' FSL, 50' FWL, Unit L, Section 2-21S-27E
BHL: 660' FSL, 330' FEL, Unit P, Section 2-21S-27E (BHL REMAINS THE SAME)
TD: 11520', Production Casing set @ 11520'



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

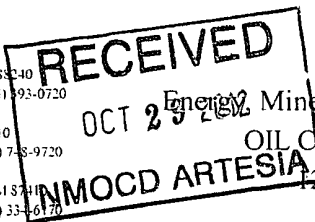
SIGNATURE: Patti Riechers TITLE: Regulatory Specialist DATE: 10/26/2012

Type or print name: Patti Riechers E-mail address: patti.riechers@dmv.com PHONE: 405-228-4248

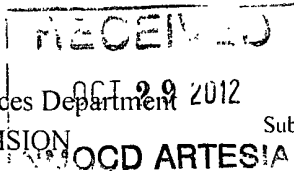
For State Use Only

APPROVED BY: J. C. Shepard TITLE: Geologist DATE: 10/29/2012

District I
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District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462



State of New Mexico



Energy Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-503	² Pool Code 3213	³ Pool Name Avalon; Bone Spring, East
⁴ Property Code 302269	⁵ Property Name BURTON FLAT DEEP UNIT	
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
		⁶ Well Number 54H
		⁹ Elevation 3214.4

¹⁰ Surface Location

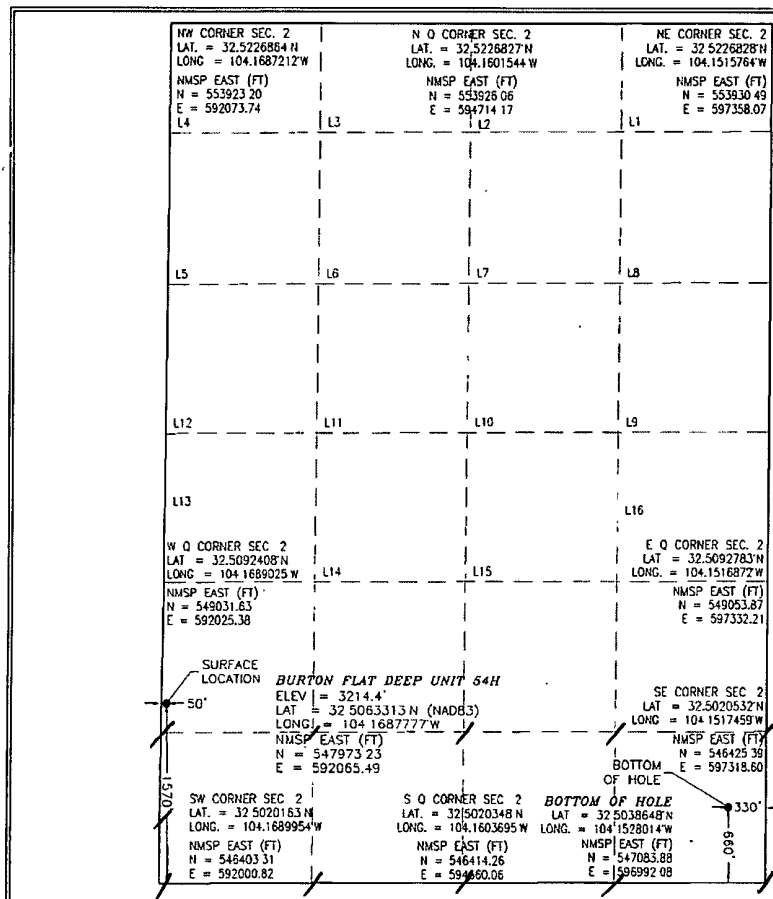
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	21 S	27 E		1570	SOUTH	50	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	21 S	27 E		660	SOUTH	330	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.



¹⁷ 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 or has a right to drill this well at this 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

Patti Riechers 10/23/2012
Signature Date

Patti Riechers, Regulatory Specialist

Printed Name

patti.riechers@dvn.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

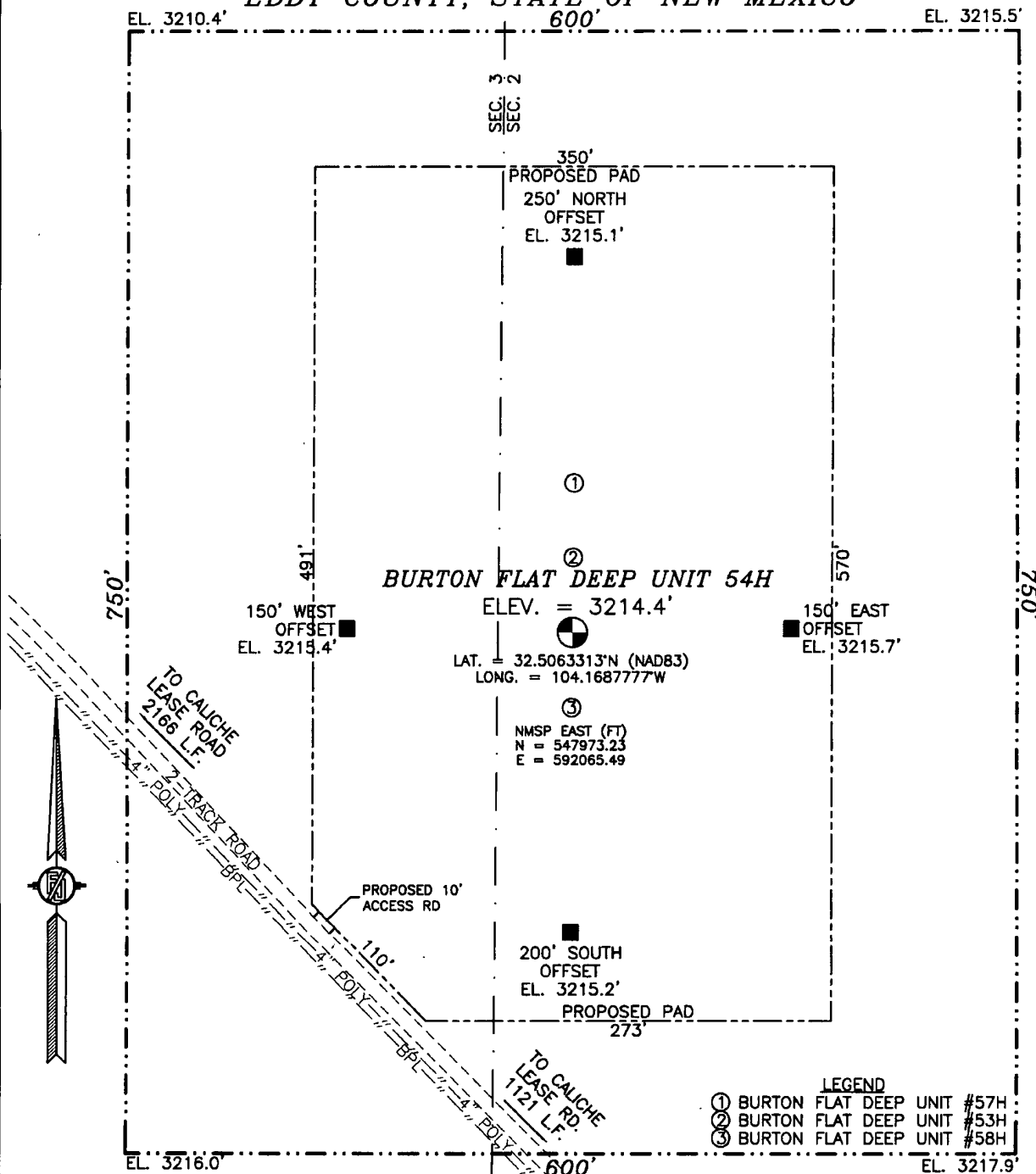
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 20, 2012

Date of Survey

[Signature]
Signature and Seal of Professional Surveyor
Certificate Number PHILIP JARAMILLO, PLS 12797
SURVEY NO. 1059A

SECTION 2, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ILLINOIS CAMP RD (CR 206) AND CR 600 (RAINS ROAD) GO EAST ON CR 600 2.25 MILES TO CALICHE ROAD INTERSECTION PAST RAMBO BOOSTER STA. PAST CATTLE GUARD GO EAST ON CALICHE ROAD, ROAD BENDS NORTHEAST GO 1.25 MILES TO FORK IN ROAD TAKE RIGHT GO EAST 0.45 MILES TO CALICHE ROAD ON RIGHT GO SOUTHEAST 0.55 MILES TO ROAD INTERSECTION TURN RIGHT ON CALICHE LEASE ROAD TOWARDS BURTON FLAT DEEP UNIT 43 GO WEST 0.15 MILES TO BPL ROAD GO WEST (RIGHT) ON BPL ROAD 0.21 MILES SITE IS ON RIGHT (NORTH)

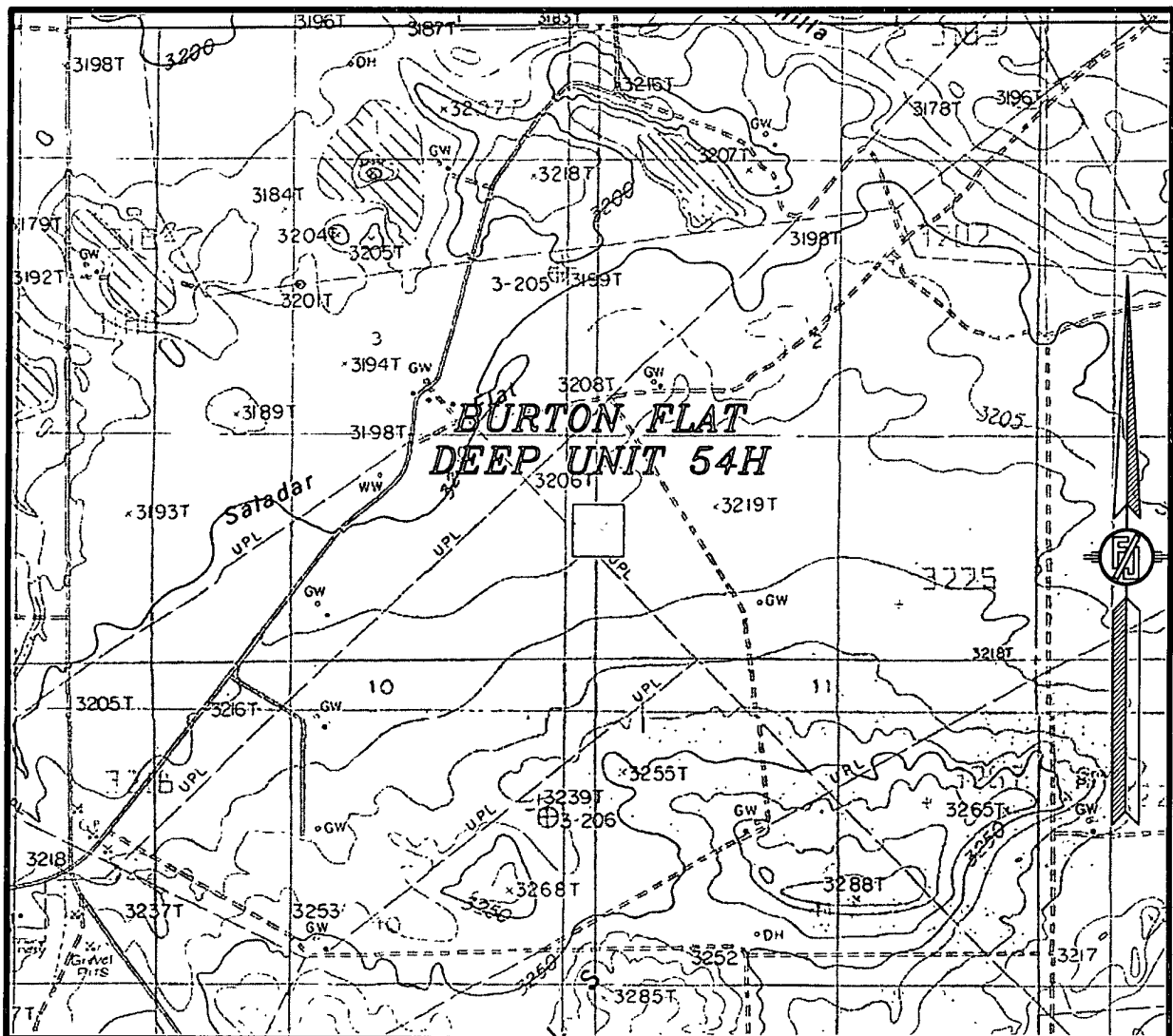
DEVON ENERGY PRODUCTION COMPANY, L.P.
BURTON FLAT DEEP UNIT 54H
LOCATED 1570 FT. FROM THE SOUTH LINE
AND 50 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SEPTEMBER 20, 2012

SURVEY NO. 1059A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANGEL DRAW

NOT TO SCALE

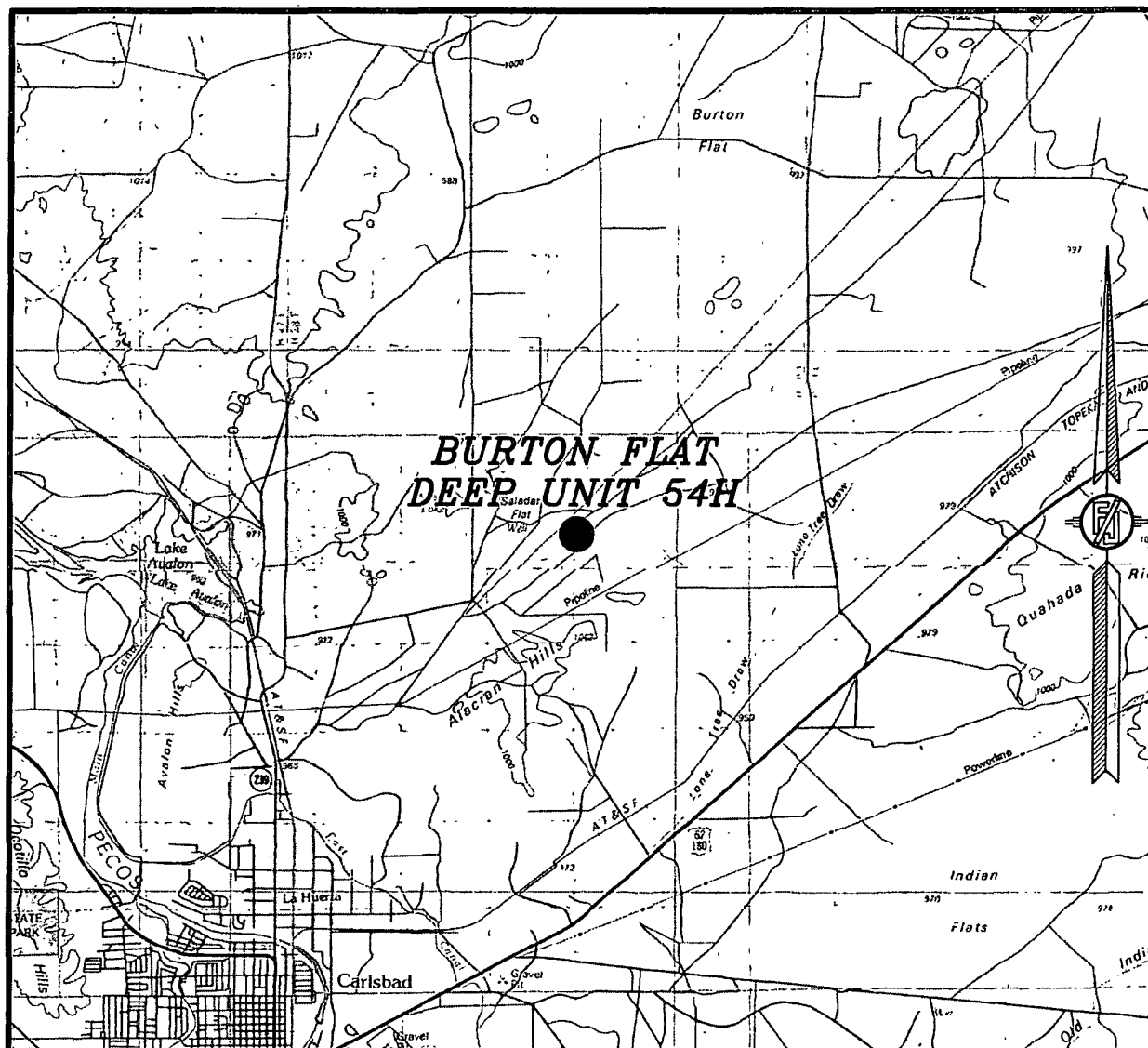
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SECTION 2, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 20, 2012

SURVEY NO. 1059A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
BURTON FLAT DEEP UNIT 54H
LOCATED 1570 FT. FROM THE SOUTH LINE
AND 50 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 20, 2012

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 1059A

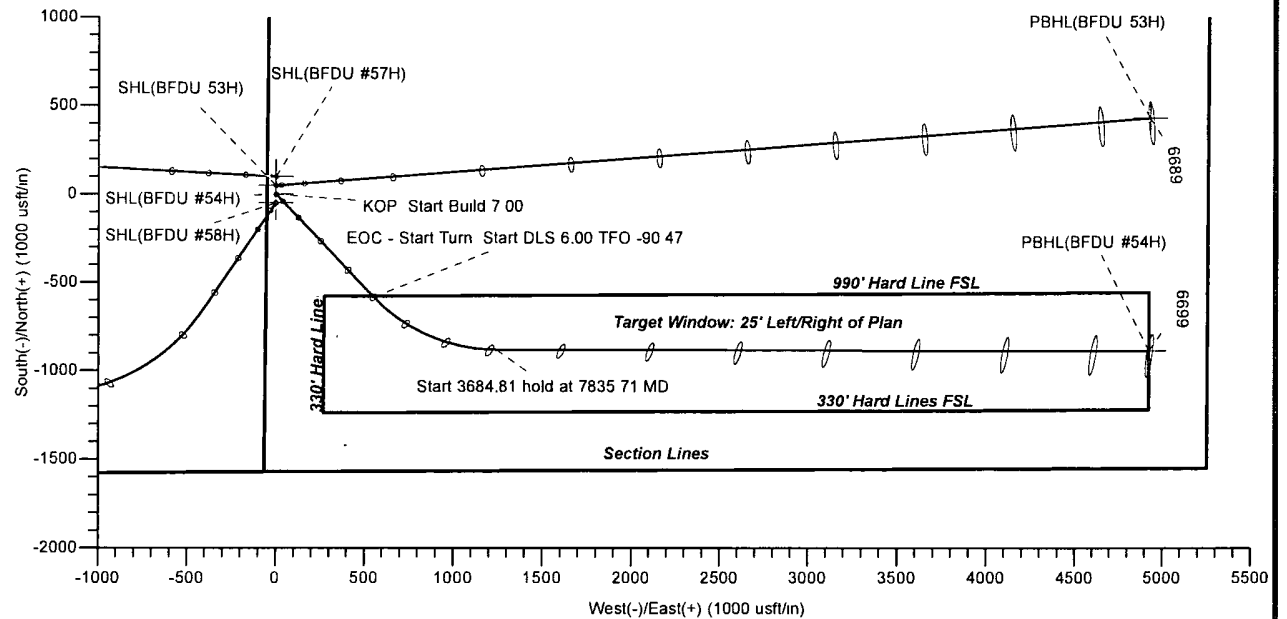
DEVON ENERGY

Project Eddy County, NM (NAD-83)
 Site: Burton Flat Deep Unit
 Well: #54H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.09°
 Magnetic North: 7.63°

Magnetic Field
 Strength: 48586.2snT
 Dip Angle: 60.31°
 Date: 10/22/2012
 Model: IGRF2010

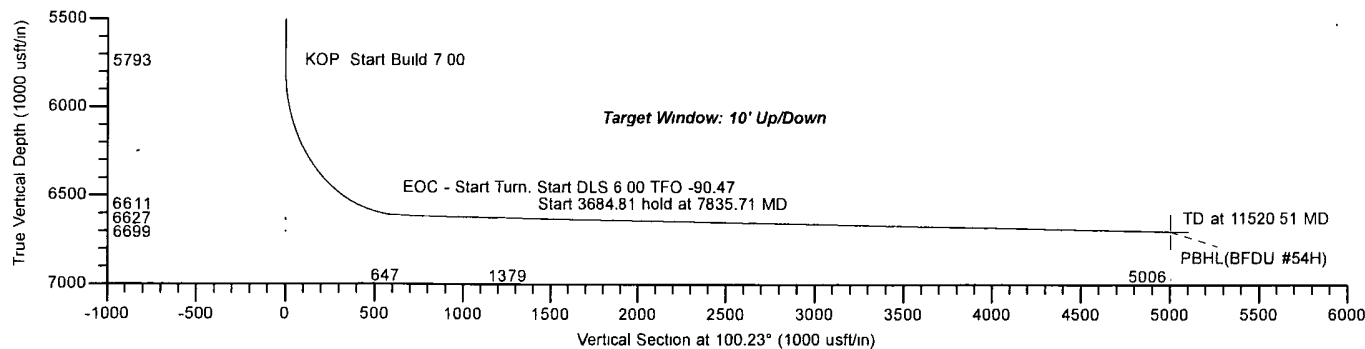


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(BFDU #54H)	0 00	0.00	0.00	547973.23	592065.49	32° 30' 22.793 N	104° 10' 7.600 W
PBHL(BFDU #54H)	6699 00	-889 34	4926 52	547083.89	596992.01	32° 30' 13.913 N	104° 9' 10.086 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	5793 50	0 00	0 00	5793 50	0.00	0.00	0 00	0 00	0 00	KOP Start Build 7.00
3	7063 36	88.89	136 50	6611.86	-582.23	552.51	7 00	136.50	647.15	EOC - Start Turn: Start DLS 6 00 TFO -90 47
4	7835.71	88.89	90 15	6627 68	-879.70	1242 41	6 00	-90 47	1378.93	Start 3684.81 hold at 7835.71 MD
5	11520 51	88.89	90.15	6699.00	-889 34	4926 52	0 00	0.00	5006.14	TD at 11520.51 MD



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

Plan Plan #1 (#54H/OH)
 Burton Flat Deep Unit
 Created By Tyler Carlson Date 16 15, October 22 2012
 Date _____
 Approved _____ Date _____

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #54H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site:	Burton Flat Deep Unit	North Reference:	Grd
Well:	#54H	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	Burton Flat Deep Unit				
Site Position:		Northing:	548,073 21 usft	Latitude:	32° 30' 23 782 N
From:	Map	Easting:	592,066 43 usft	Longitude:	104° 10' 7 587 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0 09 °

Well	#54H					
Well Position	+N/-S	-99 98 usft	Northing:	547,973 23 usft	Latitude:	32° 30' 22 793 N
	+E/-W	-0 94 usft	Easting:	592,065 49 usft	Longitude:	104° 10' 7 600 W
Position Uncertainty		0 00 usft	Wellhead Elevation:		Ground Level:	3,214 00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/22/12	7 72	60 31	48,586

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	100 23

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 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
5,793 50	0 00	0 00	5,793 50	0 00	0 00	0 00	0 00	0 00	0 00	
7,063 36	88 89	136 50	6,611 86	-582 23	552.51	7 00	7 00	0 00	136 50	
7,835 71	88 89	90 15	6,627 68	-879 70	1,242 41	6 00	0 00	-6 00	-90 47	
11,520.51	88 89	90 15	6,699 00	-889 34	4,926 52	0 00	0 00	0 00	0 00	PBHL(BFDU #54H)

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site:	Burton Flat Deep Unit	North Reference:	Grd
Well:	#54H	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
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
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
2,800 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
4,500 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
5,300 00	0 00	0 00	5,300 00	0 00	0 00	0 00	0 00	0 00	0 00

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #54H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site:	Burton Flat Deep Unit	North Reference:	Grnd
Well:	#54H	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)	
5,400 00	0 00	0 00	5,400 00	0 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	0 00
5,600 00	0 00	0 00	5,600 00	0 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	0 00
5,793 50	0 00	0 00	5,793 50	0 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP: Start Build 7.00										
5,800 00	0 46	136 50	5,800 00	-0 02	0 02	0.02	7 00	7 00	7 00	0 00
5,850 00	3 96	136 50	5,849 96	-1 41	1 34	1 57	7 00	7 00	7 00	0 00
5,900 00	7 46	136 50	5,899 70	-5 02	4 76	5 58	7 00	7 00	7 00	0 00
5,950 00	10 96	136 50	5,949 05	-10 82	10 27	12 03	7 00	7 00	7 00	0 00
6,000 00	14 46	136 50	5,997 82	-18 80	17 84	20 89	7 00	7 00	7 00	0 00
6,050 00	17 96	136 50	6,045 82	-28 92	27 44	32 14	7 00	7 00	7 00	0 00
6,100 00	21 46	136 50	6,092 89	-41 14	39 04	45 73	7 00	7 00	7 00	0 00
6,150 00	24 96	136 50	6,138 84	-55 43	52 60	61 61	7 00	7 00	7 00	0 00
6,200 00	28 46	136 50	6,183 49	-71 73	68 07	79.73	7 00	7 00	7 00	0 00
6,250 00	31 96	136 50	6,226 70	-89 97	85 38	100 00	7 00	7 00	7 00	0 00
6,300 00	35 46	136 50	6,268 29	-110 09	104 48	122 37	7 00	7 00	7 00	0 00
6,350 00	38 96	136 50	6,308 11	-132 02	125 28	146 74	7 00	7 00	7 00	0 00
6,400 00	42 46	136 50	6,346 00	-155 67	147 73	173 03	7 00	7 00	7 00	0 00
6,450 00	45 96	136 50	6,381 84	-180 95	171 72	201 13	7 00	7 00	7 00	0 00
6,500 00	49 46	136 50	6,415 48	-207 78	197 17	230 95	7 00	7 00	7 00	0 00
6,550 00	52 96	136 50	6,446 81	-236 04	223 99	262 36	7 00	7 00	7 00	0 00
6,600 00	56 46	136 50	6,475 69	-265 64	252 08	295 26	7 00	7 00	7 00	0 00
6,650 00	59 96	136 50	6,502 03	-296 46	281 33	329 52	7 00	7 00	7 00	0 00
6,700 00	63 46	136 50	6,525 73	-328 39	311 63	365 01	7 00	7 00	7 00	0 00
6,750 00	66 96	136 50	6,546 69	-361 31	342 87	401 60	7 00	7 00	7 00	0 00
6,800 00	70 46	136 50	6,564 85	-395 10	374.93	439 16	7 00	7 00	7 00	0 00
6,850 00	73 96	136 50	6,580 13	-429 63	407 70	477 54	7 00	7 00	7 00	0 00
6,900 00	77 46	136 50	6,592 47	-464 77	441 05	516 60	7 00	7 00	7 00	0 00
6,950 00	80 96	136 50	6,601 83	-500 39	474 85	556 19	7 00	7 00	7 00	0 00
7,000 00	84 46	136 50	6,608 18	-536 36	508 98	596 17	7 00	7 00	7 00	0 00
7,050 00	87 96	136 50	6,611 49	-572 54	543 32	636 39	7 00	7 00	7 00	0 00
7,063 36	88 89	136 50	6,611 86	-582 23	552 51	647 15	7 00	7 00	7 00	0 00
EOC - Start Turn: Start DLS 6.00 TFO -90.47										
7,100 00	88 87	134 30	6,612 57	-608 31	578 23	677 10	6 00	-0 05	-0 05	-6 00
7,150 00	88 85	131 30	6,613 57	-642 27	614 91	719 23	6 00	-0 04	-0 04	-6 00
7,200 00	88 83	128 30	6,614 58	-674 27	653 31	762 70	6 00	-0 04	-0 04	-6 00
7,250 00	88 82	125 30	6,615 60	-704 21	693 33	807 41	6 00	-0 03	-0 03	-6 00
7,300 00	88 81	122 30	6,616 64	-732 01	734 87	853 22	6 00	-0 02	-0 02	-6 00
7,350 00	88 80	119 30	6,617 68	-757 61	777.80	900 02	6 00	-0 02	-0 02	-6 00
7,400 00	88 79	116 30	6,618 73	-780 92	822 02	947 67	6 00	-0 01	-0 01	-6 00
7,450 00	88 79	113 30	6,619 78	-801 88	867 39	996 05	6 00	0 00	0 00	-6 00
7,500 00	88 79	110 30	6,620 84	-820 44	913 80	1,045 02	6 00	0 00	0 00	-6 00
7,550 00	88 80	107 30	6,621 89	-836 54	961 12	1,094 44	6 00	0 01	0 01	-6 00
7,600 00	88 81	104 29	6,622 93	-850 15	1,009 22	1,144 19	6 00	0 02	0 02	-6 00
7,650 00	88 82	101 29	6,623 96	-861 22	1,057 96	1,194 13	6 00	0 02	0 02	-6 00
7,700 00	88.83	98 29	6,624 99	-869 72	1,107 22	1,244 11	6 00	0 03	0 03	-6 00
7,750 00	88 85	95 29	6,626 00	-875 63	1,156 85	1,294 00	6 00	0 04	0 04	-6 00
7,800 00	88 87	92 29	6,626 99	-878 94	1,206.72	1,343 67	6 00	0 04	0 04	-6 00
7,835 71	88 89	90 15	6,627 68	-879 70	1,242 41	1,378 93	6 00	0 05	0 05	-6 00
Start 3684.81 hold at 7835.71 MD										
7,900 00	88 89	90 15	6,628 93	-879 87	1,306 69	1,442 22	0 00	0 00	0 00	0 00
8,000 00	88 89	90 15	6,630 86	-880 13	1,406 68	1,540 65	0 00	0 00	0 00	0 00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #54H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site:	Burton Flat Deep Unit	North Reference:	Grd
Well:	#54H	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)
8,100 00	88 89	90.15	6,632 80	-880 39	1,506 66	1,639 09	0 00	0 00	0 00
8,200 00	88 89	90 15	6,634 74	-880 65	1,606 64	1,737 53	0 00	0 00	0 00
8,300 00	88 89	90.15	6,636 67	-880 91	1,706 62	1,835 97	0 00	0 00	0 00
8,400 00	88 89	90.15	6,638 61	-881 18	1,806 60	1,934 40	0 00	0 00	0 00
8,500 00	88 89	90 15	6,640 54	-881 44	1,906 58	2,032 84	0 00	0 00	0 00
8,600 00	88 89	90 15	6,642 48	-881 70	2,006 56	2,131 28	0 00	0 00	0 00
8,700 00	88 89	90 15	6,644 41	-881 96	2,106 54	2,229 71	0 00	0 00	0 00
8,800 00	88 89	90 15	6,646 35	-882 22	2,206 52	2,328 15	0 00	0 00	0 00
8,900 00	88 89	90 15	6,648 28	-882 48	2,306 50	2,426 59	0 00	0 00	0 00
9,000 00	88 89	90 15	6,650 22	-882 74	2,406 48	2,525 03	0 00	0 00	0 00
9,100 00	88 89	90 15	6,652 15	-883 01	2,506 47	2,623 46	0 00	0 00	0 00
9,200 00	88 89	90.15	6,654 09	-883 27	2,606 45	2,721 90	0 00	0 00	0 00
9,300 00	88 89	90 15	6,656 02	-883 53	2,706 43	2,820 34	0 00	0 00	0 00
9,400 00	88 89	90 15	6,657 96	-883 79	2,806 41	2,918 77	0 00	0 00	0 00
9,500 00	88 89	90 15	6,659 90	-884 05	2,906 39	3,017 21	0 00	0 00	0 00
9,600 00	88 89	90 15	6,661 83	-884 31	3,006 37	3,115 65	0 00	0 00	0 00
9,700 00	88 89	90 15	6,663 77	-884 58	3,106 35	3,214 08	0 00	0 00	0 00
9,800 00	88 89	90 15	6,665 70	-884 84	3,206 33	3,312 52	0 00	0 00	0 00
9,900 00	88 89	90 15	6,667 64	-885 10	3,306 31	3,410 96	0 00	0 00	0 00
10,000 00	88 89	90 15	6,669 57	-885 36	3,406 29	3,509 40	0 00	0 00	0 00
10,100 00	88 89	90 15	6,671 51	-885 62	3,506 27	3,607 83	0 00	0 00	0 00
10,200 00	88 89	90.15	6,673 44	-885 88	3,606 26	3,706 27	0 00	0 00	0 00
10,300 00	88 89	90 15	6,675 38	-886 14	3,706 24	3,804 71	0 00	0 00	0 00
10,400 00	88 89	90 15	6,677 31	-886 41	3,806 22	3,903 14	0 00	0 00	0 00
10,500 00	88 89	90 15	6,679 25	-886 67	3,906 20	4,001 58	0 00	0 00	0 00
10,600 00	88 89	90 15	6,681 18	-886 93	4,006 18	4,100 02	0 00	0 00	0 00
10,700 00	88 89	90 15	6,683 12	-887 19	4,106 16	4,198 46	0 00	0 00	0 00
10,800 00	88 89	90 15	6,685 06	-887 45	4,206 14	4,296 89	0 00	0 00	0 00
10,900 00	88 89	90 15	6,686 99	-887 71	4,306 12	4,395 33	0 00	0 00	0 00
11,000 00	88 89	90 15	6,688 93	-887 98	4,406 10	4,493 77	0 00	0 00	0 00
11,100 00	88 89	90 15	6,690 86	-888 24	4,506 08	4,592 20	0 00	0 00	0 00
11,200 00	88 89	90 15	6,692 80	-888 50	4,606 06	4,690 64	0 00	0 00	0 00
11,300 00	88 89	90 15	6,694 73	-888 76	4,706 05	4,789 08	0 00	0 00	0 00
11,400 00	88 89	90 15	6,696 67	-889 02	4,806 03	4,887 52	0 00	0 00	0 00
11,500 00	88 89	90 15	6,698 60	-889 28	4,906 01	4,985 95	0 00	0 00	0 00
11,520 51	88 89	90 15	6,699 00	-889 34	4,926 52	5,006 14	0 00	0 00	0 00

TD at 11520.51 MD

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									
SHL(BFDU #54H)	0 00	0 00	0 00	0 00	0 00	547,973 23	592,065 49	32° 30' 22 793 N	104° 10' 7 600 W
- plan hits target center									
- Point									
P8HL(BFDU #54H)	0 00	0 00	6,699 00	-889 34	4,926 52	547,083 90	596,992 01	32° 30' 13 913 N	104° 9' 10 086 W
- plan hits target center									
- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well #54H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site:	Burton Flat Deep Unit	North Reference:	Gnd
Well:	#54H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations

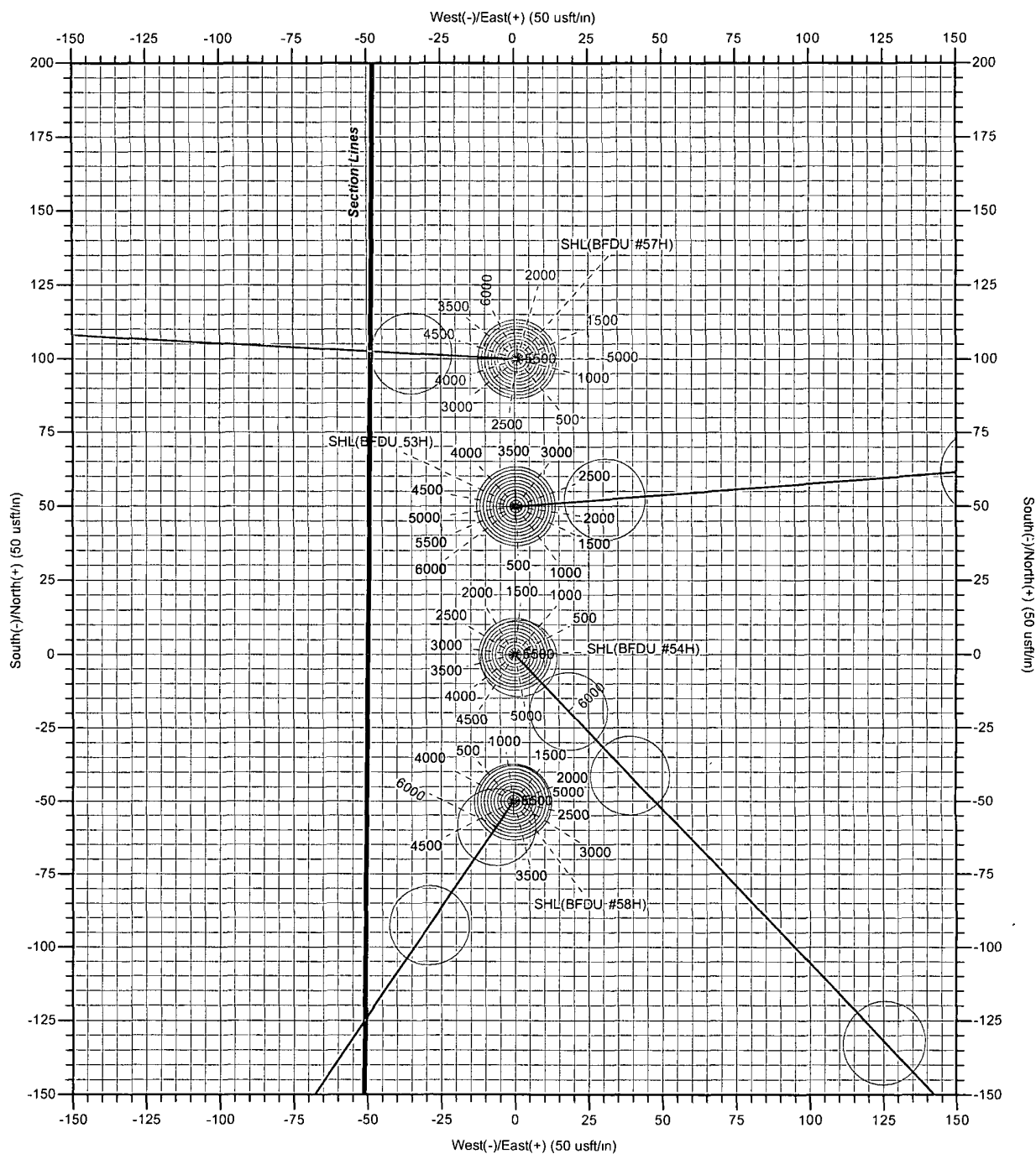
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,793 50	5,793 50	0 00	0 00	KOP Start Build 7 00
7,063 36	6,611 86	-582 23	552 51	EOC - Start Turn Start DLS 6 00 TFO -90 47
7,835 71	6,627 68	-879 70	1,242 41	Start 3684 81 hold at 7835 71 MD
11,520 51	6,699 00	-889 34	4,926 52	TD at 11520 51 MD

Project: Eddy County, NM (NAD-83)
Site: Burton Flat Deep Unit
Well: #54H
Wellbore: OH
Design. Plan #1



Azimuths to Grid North
True North: -0.09°
Magnetic North: 7.63°

Magnetic Field
Strength: 48586.2snT
Dip Angle. 60.31°
Date: 10/22/2012
Model: IGRF2010



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

Plan Plan #1 (#54H/OH)
Burton Flat Deep Unit

Created By Tyler Carlson Date 16 20, October 22 2012

Approved _____ Date _____

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (H&P 223)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/22/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0 00	11,520 51	Plan #1 (OH)	LEAM MWD	MWD - Standard	

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Burton Flat Deep Unit						
#53H - OH - Plan #1	5,793.50	5,793.50	49.99	24.23	1.940	CC
#53H - OH - Plan #1	5,800.00	5,800.00	50.01	24.22	1.939	ES, SF
#57H - OH - Plan #1	5,793.50	5,793.50	99.98	74.22	3.881	CC
#57H - OH - Plan #1	5,800.00	5,800.00	100.00	74.21	3.878	ES, SF
#58H - OH - Plan #1	5,953.24	5,948.20	43.79	17.51	1.666	CC, ES, SF

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.55	49.99	0.48	49.99				
100.00	100.00	100.00	100.00	0.08	0.08	0.55	49.99	0.48	49.99	49.82	0.17	298.559	
200.00	200.00	200.00	200.00	0.31	0.31	0.55	49.99	0.48	49.99	49.37	0.62	80.880	
300.00	300.00	300.00	300.00	0.53	0.53	0.55	49.99	0.48	49.99	48.92	1.07	48.825	
400.00	400.00	400.00	400.00	0.76	0.76	0.55	49.99	0.48	49.99	48.48	1.52	32.951	
500.00	500.00	500.00	500.00	0.98	0.98	0.55	49.99	0.48	49.99	48.03	1.97	25.419	
600.00	600.00	600.00	600.00	1.21	1.21	0.55	49.99	0.48	49.99	47.58	2.42	20.690	
700.00	700.00	700.00	700.00	1.43	1.43	0.55	49.99	0.48	49.99	47.13	2.87	17.445	
800.00	800.00	800.00	800.00	1.66	1.66	0.55	49.99	0.48	49.99	46.68	3.32	15.079	
900.00	900.00	900.00	900.00	1.88	1.88	0.55	49.99	0.48	49.99	46.23	3.76	13.279	
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	0.55	49.99	0.48	49.99	45.78	4.21	11.862	
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	0.55	49.99	0.48	49.99	45.33	4.66	10.719	
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	0.55	49.99	0.48	49.99	44.88	5.11	9.777	
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	0.55	49.99	0.48	49.99	44.43	5.56	8.987	
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	0.55	49.99	0.48	49.99	43.98	6.01	8.315	
1,500.00	1,500.00	1,500.00	1,500.00	3.23	3.23	0.55	49.99	0.48	49.99	43.53	6.46	7.736	
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	0.55	49.99	0.48	49.99	43.08	6.91	7.233	
1,700.00	1,700.00	1,700.00	1,700.00	3.68	3.68	0.55	49.99	0.48	49.99	42.63	7.36	6.791	
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	0.55	49.99	0.48	49.99	42.18	7.81	6.401	
1,900.00	1,900.00	1,900.00	1,900.00	4.13	4.13	0.55	49.99	0.48	49.99	41.73	8.26	6.052	
2,000.00	2,000.00	2,000.00	2,000.00	4.35	4.35	0.55	49.99	0.48	49.99	41.28	8.71	5.740	
2,100.00	2,100.00	2,100.00	2,100.00	4.58	4.58	0.55	49.99	0.48	49.99	40.83	9.16	5.458	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Burton Flat Deep Unit - #53H - OH - Plan #1		Offset Site Error:	0 00 usft
Survey Program: 0-LEAM MWD															Offset Well Error:	0 00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
2,200 00	2,200 00	2,200 00	2,200 00	4 80	4 80	0 55	49 99	0 48	49 99	40 38	9 81	5 203				
2,300 00	2,300 00	2,300 00	2,300 00	5 03	5 03	0 55	49 99	0 48	49 99	39 93	10 06	4 970				
2,400 00	2,400 00	2,400 00	2,400 00	5 25	5 25	0 55	49 99	0 48	49 99	39 48	10 51	4 758				
2,500 00	2,500 00	2,500 00	2,500 00	5 48	5 48	0 55	49 99	0 48	49 99	39 03	10 96	4 562				
2,600 00	2,600 00	2,600 00	2,600 00	5 70	5 70	0 55	49 99	0 48	49 99	38 59	11 41	4 383				
2,700 00	2,700 00	2,700 00	2,700 00	5 93	5 93	0 55	49 99	0 48	49 99	38 14	11 86	4 216				
2,800 00	2,800 00	2,800 00	2,800 00	6 15	6 15	0 55	49 99	0 48	49 99	37 69	12 31	4 062				
2,900 00	2,900 00	2,900 00	2,900 00	6 38	6 38	0 55	49 99	0 48	49 99	37 24	12 76	3 919				
3,000 00	3,000 00	3,000 00	3,000 00	6 60	6 60	0 55	49 99	0 48	49 99	36 79	13 21	3 786				
3,100 00	3,100 00	3,100 00	3,100 00	6 83	6 83	0 55	49 99	0 48	49 99	36 34	13 65	3 661				
3,200 00	3,200 00	3,200 00	3,200 00	7 05	7 05	0 55	49 99	0 48	49 99	35 89	14 10	3 545				
3,300 00	3,300 00	3,300 00	3,300 00	7 28	7 28	0 55	49 99	0 48	49 99	35 44	14 55	3 435				
3,400 00	3,400 00	3,400 00	3,400 00	7 50	7 50	0 55	49 99	0 48	49 99	34 99	15 00	3 332				
3,500 00	3,500 00	3,500 00	3,500 00	7 73	7 73	0 55	49 99	0 48	49 99	34 54	15 45	3 235				
3,600 00	3,600 00	3,600 00	3,600 00	7 95	7 95	0 55	49 99	0 48	49 99	34 09	15 90	3 144				
3,700 00	3,700 00	3,700 00	3,700 00	8 18	8 18	0 55	49 99	0 48	49 99	33 64	16 35	3 057				
3,800 00	3,800 00	3,800 00	3,800 00	8 40	8 40	0 55	49 99	0 48	49 99	33 19	16 80	2 976				
3,900 00	3,900 00	3,900 00	3,900 00	8 63	8 63	0 55	49 99	0 48	49 99	32 74	17 25	2 898				
4,000 00	4,000 00	4,000 00	4,000 00	8 85	8 85	0 55	49 99	0 48	49 99	32 29	17 70	2 824				
4,100 00	4,100 00	4,100 00	4,100 00	9 07	9 07	0 55	49 99	0 48	49 99	31 84	18 15	2 754				
4,200 00	4,200 00	4,200 00	4,200 00	9 30	9 30	0 55	49 99	0 48	49 99	31 39	18 60	2 688				
4,300 00	4,300 00	4,300 00	4,300 00	9 52	9 52	0 55	49 99	0 48	49 99	30 94	19 05	2 624				
4,400 00	4,400 00	4,400 00	4,400 00	9 75	9 75	0 55	49 99	0 48	49 99	30 49	19 50	2 564				
4,500 00	4,500 00	4,500 00	4,500 00	9 97	9 97	0 55	49 99	0 48	49 99	30 04	19 95	2 506				
4,600 00	4,600 00	4,600 00	4,600 00	10 20	10 20	0 55	49 99	0 48	49 99	29 59	20 40	2 451				
4,700 00	4,700 00	4,700 00	4,700 00	10 42	10 42	0 55	49 99	0 48	49 99	29 15	20 85	2 398				
4,800 00	4,800 00	4,800 00	4,800 00	10 65	10 65	0 55	49 99	0 48	49 99	28 70	21 30	2 347				
4,900 00	4,900 00	4,900 00	4,900 00	10 87	10 87	0 55	49 99	0 48	49 99	28 25	21 75	2 299				
5,000 00	5,000 00	5,000 00	5,000 00	11 10	11 10	0 55	49 99	0 48	49 99	27 80	22 20	2 252				
5,100 00	5,100 00	5,100 00	5,100 00	11 32	11 32	0 55	49 99	0 48	49 99	27 35	22 65	2 208				
5,200 00	5,200 00	5,200 00	5,200 00	11 55	11 55	0 55	49 99	0 48	49 99	26 90	23 09	2 165				
5,300 00	5,300 00	5,300 00	5,300 00	11 77	11 77	0 55	49 99	0 48	49 99	26 45	23 54	2 123				
5,400 00	5,400 00	5,400 00	5,400 00	12 00	12 00	0 55	49 99	0 48	49 99	26 00	23 99	2 084				
5,500 00	5,500 00	5,500 00	5,500 00	12 22	12 22	0 55	49 99	0 48	49 99	25 55	24 44	2 045				
5,600 00	5,600 00	5,600 00	5,600 00	12 45	12 45	0 55	49 99	0 48	49 99	25 10	24 89	2 008				
5,700 00	5,700 00	5,700 00	5,700 00	12 67	12 67	0 55	49 99	0 48	49 99	24 65	25 34	1 973				
5,793.50	5,793 50	5,793 50	5,793 50	12 88	12 88	0 55	49 99	0 48	49 99	24 23	25 76	1 940 CC				
5,800 00	5,800 00	5,800 00	5,800 00	12 89	12 90	-135 97	49 99	0 48	50 01	24 22	25 79	1 939 ES, SF				
5,850 00	5,849 96	5,849 96	5,849 96	12 98	13 01	-137 39	49 99	0 48	51 41	25 45	25 96	1 980				
5,900 00	5,899 70	5,899 70	5,899 70	13 07	13 12	-140 71	49 99	0 48	55 18	29 11	26 07	2 117				
5,950 00	5,949 05	5,949 05	5,949 05	13 16	13 23	-145 15	49 99	0 48	61 59	35 50	26 09	2 361				
6,000 00	5,997 82	5,997 82	5,997 82	13 26	13 34	-149 87	49 99	0 48	70 94	44 93	26 01	2 728				
6,050 00	6,045 82	6,047 01	6,046 99	13 35	13 45	-153 69	50 07	1 47	83 15	57 33	25 82	3 220				
6,100 00	6,092 89	6,096 91	6,096 62	13 46	13 55	-154 82	50 46	6 57	97 26	71 68	25 58	3 803				
6,150 00	6,138 84	6,146 78	6,145 57	13 58	13 65	-153 98	51 18	15 93	112 94	87 63	25 31	4 462				
6,200 00	6,183 49	6,196 20	6,193 10	13 71	13 76	-151 86	52 22	29 37	130 20	105 14	25 06	5 195				
6,250 00	6,226 70	6,244 81	6,238 55	13 86	13 88	-148 96	53 54	46 52	149 15	124 28	24 87	5 997				
6,300 00	6,268 29	6,292 30	6,281 39	14 04	14 00	-145 59	55 11	66 93	169 93	145 15	24 77	6 859				
6,350 00	6,308 11	6,338 42	6,321 24	14 25	14 14	-141 98	56 90	90 06	192 62	167 81	24 81	7 763				
6,400 00	6,346 00	6,383 00	6,357 86	14 49	14 30	-138 26	58 85	115 39	217 27	192 26	25 01	8 689				
6,450 00	6,381 84	6,425 95	6,391 17	14 77	14 47	-134 50	60 93	142 41	243 84	218 46	25 37	9 610				
6,500 00	6,415 48	6,467 23	6,421 18	15 10	14 67	-130 72	63 11	170 65	272 24	246 33	25 92	10 504				

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Gnd
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Burton Flat Deep Unit - #53H - OH - Plan #1		Offset Site Error:		0 00 usft
Survey Program: O-LEAM MWD													Offset Well Error:		0 00 usft		
Reference		Offset		Semi Major Axis			Distance						Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
6,550 00	6,446 81	6,506 86	6,448 01	15 48	14 89	-126 94	65 35	199 72	302 37	275 74	26 64	11 352					
6,600 00	6,475 69	6,544 90	6,471 80	15 91	15 14	-123 14	67 63	229 30	334 07	306 56	27 52	12 141					
6,650 00	6,502 03	6,581 45	6,492 77	16 39	15 42	-119 34	69 94	259 15	367 18	338 84	28 54	12 864					
6,700 00	6,525 73	6,616 64	6,511 11	16 92	15 72	-115 50	72 24	289 09	401 53	371 85	29 68	13 528					
6,750 00	6,546 69	6,650 00	6,526 76	17 50	16 03	-111 64	74 51	318 45	436 96	406 06	30 90	14 143					
6,800 00	6,564 85	6,683 49	6,540 72	18 14	16 39	-107 73	76 85	348 80	473 28	441 11	32 18	14 708					
6,850 00	6,580 13	6,715 46	6,552 37	18 82	16 75	-103 81	79 14	378 48	510 36	476 89	33 47	15 250					
6,900 00	6,592 47	6,746 67	6,562 13	19 54	17 12	-99 89	81 42	408 03	548 02	513 29	34 73	15 778					
6,950 00	6,601 83	6,777 29	6,570 11	20 31	17 53	-95 99	83 69	437 50	586 13	550 17	35 96	16 301					
7,000 00	6,608 18	6,807 49	6,576 43	21 10	17 94	-92 13	85 96	466 94	624 54	587 44	37 10	16 832					
7,050 00	6,611 49	6,837 43	6,581 16	21 93	18 38	-88 36	88 23	498 42	663 13	624 96	38 17	17 372					
7,083 36	6,611 86	6,845 41	6,582 15	22 16	18 49	-87 37	88 84	504 31	673 45	635 01	38 44	17 519					
7,100 00	6,612 57	6,867 86	6,584 37	22 78	18 84	-87 79	90 56	526 59	701 34	661 95	39 39	17 806					
7,150 00	6,613 57	6,900 28	6,586 01	23 66	19 34	-88 11	93 05	558 86	737 97	697 24	40 73	18 119					
7,200 00	6,614 58	6,936 12	6,586 85	24 57	19 94	-88 28	95 80	594 58	772 80	730 63	42 17	18 327					
7,250 00	6,615 60	6,973 73	6,587 74	25 50	20 57	-88 40	98 69	632 08	805 72	762 05	43 66	18 452					
7,300 00	6,616 64	7,013 02	6,588 66	26 46	21 25	-88 50	101 71	671 24	836 62	791 40	45 22	18 500					
7,350 00	6,617 68	7,053 88	6,589 62	27 43	22 00	-88 57	104 85	711 96	865 42	818 57	46 85	18 471					
7,400 00	6,618 73	7,096 18	6,590 61	28 42	22 77	-88 61	108 10	754 13	892 05	843 54	48 51	18 388					
7,450 00	6,619 78	7,139 82	6,591 63	29 41	23 62	-88 65	111 46	797 63	916 43	866 20	50 23	18 246					
7,500 00	6,620 84	7,184 68	6,592 69	30 41	24 49	-88 66	114 91	842 34	938 49	886 54	51 95	18 066					
7,550 00	6,621 89	7,230 63	6,593 76	31 41	25 41	-88 67	118 44	888 14	958 18	904 49	53 69	17 848					
7,600 00	6,622 93	7,277 55	6,594 87	32 41	26 36	-88 66	122 04	934 91	975 43	920 02	55 41	17 804					
7,650 00	6,623 96	7,325 31	6,595 99	33 40	27 35	-88 65	125 71	982 52	990 21	933 10	57 11	17 340					
7,700 00	6,624 99	7,373 76	6,597 12	34 39	28 37	-88 63	129 44	1,030 83	1,002 46	943 70	58 76	17 060					
7,750 00	6,626 00	7,422 82	6,598 27	35 36	29 42	-88 60	133 21	1,079 71	1,012 17	951 82	60 35	16 772					
7,800 00	6,626 99	7,472 30	6,599 44	36 32	30 49	-88 57	137 01	1,129 03	1,019 29	957 43	61 86	16 478					
7,835 71	6,627 68	7,507 83	6,600 27	36 99	31 26	-88 55	139 74	1,164 45	1,022 79	959 91	62 87	16 267					
7,900 00	6,628 93	7,571 92	6,601 77	38 21	32 67	-88 57	144 67	1,228 33	1,027 89	962 19	65 70	15 645					
8,000 00	6,630 86	7,671 61	6,604 11	40 16	34 90	-88 60	152 33	1,327 69	1,035 82	965 67	70 15	14 765					
8,100 00	6,632 80	7,771 29	6,606 45	42 16	37 16	-88 64	159 99	1,427 05	1,043 76	969 08	74 67	13 978					
8,200 00	6,634 74	7,870 97	6,608 79	44 22	39 44	-88 67	167 65	1,526 41	1,051 69	972 44	79 25	13 271					
8,300 00	6,636 67	7,970 65	6,611 13	46 32	41 75	-88 70	175 32	1,625 77	1,059 63	975 76	83 87	12 634					
8,400 00	6,638 61	8,070 34	6,613 47	48 46	44 08	-88 73	182 98	1,725 13	1,067 56	979 04	88 53	12 059					
8,500 00	6,640 54	8,170 02	6,615 81	50 63	46 42	-88 77	190 64	1,824 49	1,075 50	982 28	93 22	11 537					
8,600 00	6,642 48	8,269 70	6,618 15	52 83	48 77	-88 80	198 30	1,923 85	1,083 44	985 50	97 94	11 062					
8,700 00	6,644 41	8,369 39	6,620 49	55 06	51 14	-88 83	205 96	2,023 22	1,091 37	988 69	102 68	10 628					
8,800 00	6,646 35	8,469 07	6,622 83	57 31	53 52	-88 86	213 62	2,122 58	1,099 31	991 86	107 45	10 231					
8,900 00	6,648 28	8,568 75	6,625 17	59 58	55 91	-88 89	221 29	2,221 94	1,107 25	995 01	112 23	9 866					
9,000 00	6,650 22	8,668 43	6,627 51	61 87	58 30	-88 92	228 95	2,321 30	1,115 18	998 15	117 03	9 529					
9,100 00	6,652 15	8,768 12	6,629 84	64 17	60 70	-88 95	236 61	2,420 66	1,123 12	1,001 28	121 84	9 218					
9,200 00	6,654 09	8,867 80	6,632 18	66 49	63 11	-88 97	244 27	2,520 02	1,131 06	1,004 39	126 67	8 929					
9,300 00	6,656 02	8,967 48	6,634 52	68 83	65 52	-89 00	251 93	2,619 38	1,139 00	1,007 49	131 51	8 661					
9,400 00	6,657 96	9,067 17	6,636 86	71 17	67 94	-89 03	259 60	2,718 74	1,146 94	1,010 58	136 35	8 411					
9,500 00	6,659 90	9,166 85	6,639 20	73 53	70 36	-89 06	267 26	2,818 10	1,154 87	1,013 66	141 21	8 178					
9,600 00	6,661 83	9,266 53	6,641 54	75 89	72 79	-89 09	274 92	2,917 46	1,162 81	1,016 74	146 08	7 960					
9,700 00	6,663 77	9,366 21	6,643 88	78 26	75 22	-89 11	282 58	3,016 82	1,170 75	1,019 81	150 95	7 756					
9,800 00	6,665 70	9,465 90	6,646 22	80 64	77 65	-89 14	290 24	3,116 18	1,178 69	1,022 87	155 82	7 564					
9,900 00	6,667 64	9,565 58	6,648 56	83 03	80 08	-89 16	297 90	3,215 54	1,186 63	1,025 92	160 71	7 384					
10,000 00	6,669 57	9,665 26	6,650 90	85 43	82 52	-89 19	305 57	3,314 90	1,194 57	1,028 97	165 60	7 214					
10,100 00	6,671 51	9,764 95	6,653 24	87 83	84 96	-89 21	313 23	3,414 26	1,202 51	1,032 02	170 49	7 053					
10,200 00	6,673 44	9,864 63	6,655 58	90 24	87 41	-89 24	320 89	3,513 62	1,210 45	1,035 06	175 39	6 901					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Grid
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #53H - OH - Plan #1														Offset Site Error: 0 00 usft	
Survey Program: 0-LEAM MWD														Offset Well Error: 0 00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300 00	6,675 38	9,964 31	6,657 92	92 65	89 85	-89 26	328 55	3,612 98	1,218 39	1,038 10	180 30	6 758			
10,400 00	6,677 31	10,063 99	6,660 25	95 07	92 30	-89 29	336 21	3,712 34	1,226 34	1,041 13	185 20	6 622			
10,500 00	6,679 25	10,163 88	6,662 59	97 49	94 75	-89 31	343 87	3,811 70	1,234 28	1,044 16	190 11	6 492			
10,600 00	6,681 18	10,263 36	6,664 93	99 91	97 20	-89 34	351 54	3,911 06	1,242 22	1,047 19	195 03	6 369			
10,700 00	6,683 12	10,363 04	6,667 27	102 34	99 65	-89 36	359 20	4,010 42	1,250 16	1,050 22	199 94	6 253			
10,800 00	6,685 06	10,462 73	6,669 61	104 77	102 10	-89 38	366 86	4,109 78	1,258 10	1,053 24	204 86	6 141			
10,900 00	6,686 99	10,562 41	6,671 95	107 21	104 55	-89 41	374 52	4,209 15	1,266 04	1,056 26	209 79	6 035			
11,000 00	6,688 93	10,662 09	6,674 29	109 65	107 01	-89 43	382 18	4,308 51	1,273 99	1,059 27	214 71	5 933			
11,100 00	6,690 86	10,761 77	6,676 63	112 09	109 47	-89 45	389 84	4,407 87	1,281 93	1,062 29	219 64	5 837			
11,200 00	6,692 80	10,861 46	6,678 97	114 53	111 92	-89 47	397 51	4,507 23	1,289 87	1,065 30	224 57	5 744			
11,300 00	6,694 73	10,961 14	6,681 31	116 98	114 38	-89 49	405 17	4,606 59	1,297 81	1,068 31	229 50	5 655			
11,400 00	6,696 67	11,060 82	6,683 65	119 43	116 84	-89 52	412 83	4,705 95	1,305 76	1,071 32	234 43	5 570			
11,500 00	6,698 60	11,160 51	6,685 99	121 88	119 30	-89 54	420 49	4,805 31	1,313 70	1,074 33	239 37	5 488			
11,520 51	6,699 00	11,180 95	6,686 47	122 39	119 80	-89 54	422 06	4,825 69	1,315 33	1,074 95	240 38	5 472			

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Gnd
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Burton Flat Deep Unit - #57H - OH - Plan #1		Offset Site Error	0 00 usft
Survey Program: 0-LEAM MWD													Offset Well Error	0 00 usft		
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0 00	0 00	0 00	0 00	0 00	0 00	0 54	99 98	0 94	99 98							
100 00	100 00	100 00	100 00	0 08	0 08	0 54	99 98	0 94	99 98	99 82	0 17	593 116				
200 00	200 00	200 00	200 00	0 31	0 31	0 54	99 98	0 94	99 98	99 37	0 62	161 759				
300 00	300 00	300 00	300 00	0 53	0 53	0 54	99 98	0 94	99 98	98 92	1 07	93 650				
400 00	400 00	400 00	400 00	0 76	0 76	0 54	99 98	0 94	99 98	98 47	1 52	65 902				
500 00	500 00	500 00	500 00	0 98	0 98	0 54	99 98	0 94	99 98	98 02	1 97	50 839				
600 00	600 00	600 00	600 00	1 21	1 21	0 54	99 98	0 94	99 98	97 57	2 42	41 380				
700 00	700 00	700 00	700 00	1 43	1 43	0 54	99 98	0 94	99 98	97 12	2 87	34 889				
800 00	800 00	800 00	800 00	1 66	1 66	0 54	99 98	0 94	99 98	96 67	3 32	30 158				
900 00	900 00	900 00	900 00	1 88	1 88	0 54	99 98	0 94	99 98	96 22	3 76	26 557				
1,000 00	1,000 00	1,000 00	1,000 00	2 11	2 11	0 54	99 98	0 94	99 98	95 77	4 21	23 725				
1,100 00	1,100 00	1,100 00	1,100 00	2 33	2 33	0 54	99 98	0 94	99 98	95 32	4 66	21 438				
1,200 00	1,200 00	1,200 00	1,200 00	2 56	2 56	0 54	99 98	0 94	99 98	94 87	5 11	19 553				
1,300 00	1,300 00	1,300 00	1,300 00	2 78	2 78	0 54	99 98	0 94	99 98	94 42	5 56	17 973				
1,400 00	1,400 00	1,400 00	1,400 00	3 01	3 01	0 54	99 98	0 94	99 98	93 97	6 01	16 629				
1,500 00	1,500 00	1,500 00	1,500 00	3 23	3 23	0 54	99 98	0 94	99 98	93 52	6 46	15 473				
1,600 00	1,600 00	1,600 00	1,600 00	3 46	3 46	0 54	99 98	0 94	99 98	93 07	6 91	14 466				
1,700 00	1,700 00	1,700 00	1,700 00	3 68	3 68	0 54	99 98	0 94	99 98	92 62	7 36	13 583				
1,800 00	1,800 00	1,800 00	1,800 00	3 91	3 91	0 54	99 98	0 94	99 98	92 17	7 81	12 801				
1,900 00	1,900 00	1,900 00	1,900 00	4 13	4 13	0 54	99 98	0 94	99 98	91 72	8 26	12 104				
2,000 00	2,000 00	2,000 00	2,000 00	4 35	4 35	0 54	99 98	0 94	99 98	91 27	8 71	11 480				
2,100 00	2,100 00	2,100 00	2,100 00	4 58	4 58	0 54	99 98	0 94	99 98	90 83	9 16	10 916				
2,200 00	2,200 00	2,200 00	2,200 00	4 80	4 80	0 54	99 98	0 94	99 98	90 38	9 61	10 406				
2,300 00	2,300 00	2,300 00	2,300 00	5 03	5 03	0 54	99 98	0 94	99 98	89 93	10 06	9 941				
2,400 00	2,400 00	2,400 00	2,400 00	5 25	5 25	0 54	99 98	0 94	99 98	89 48	10 51	9 515				
2,500 00	2,500 00	2,500 00	2,500 00	5 48	5 48	0 54	99 98	0 94	99 98	89 03	10 96	9 125				
2,600 00	2,600 00	2,600 00	2,600 00	5 70	5 70	0 54	99 98	0 94	99 98	88 58	11 41	8 765				
2,700 00	2,700 00	2,700 00	2,700 00	5 93	5 93	0 54	99 98	0 94	99 98	88 13	11 86	8 433				
2,800 00	2,800 00	2,800 00	2,800 00	6 15	6 15	0 54	99 98	0 94	99 98	87 68	12 31	8 125				
2,900 00	2,900 00	2,900 00	2,900 00	6 38	6 38	0 54	99 98	0 94	99 98	87 23	12 76	7 839				
3,000 00	3,000 00	3,000 00	3,000 00	6 60	6 60	0 54	99 98	0 94	99 98	86 78	13 21	7 572				
3,100 00	3,100 00	3,100 00	3,100 00	6 83	6 83	0 54	99 98	0 94	99 98	86 33	13 65	7 322				
3,200 00	3,200 00	3,200 00	3,200 00	7 05	7 05	0 54	99 98	0 94	99 98	85 88	14 10	7 089				
3,300 00	3,300 00	3,300 00	3,300 00	7 28	7 28	0 54	99 98	0 94	99 98	85 43	14 55	6 870				
3,400 00	3,400 00	3,400 00	3,400 00	7 50	7 50	0 54	99 98	0 94	99 98	84 98	15 00	6 664				
3,500 00	3,500 00	3,500 00	3,500 00	7 73	7 73	0 54	99 98	0 94	99 98	84 53	15 45	6 470				
3,600 00	3,600 00	3,600 00	3,600 00	7 95	7 95	0 54	99 98	0 94	99 98	84 08	15 90	6 287				
3,700 00	3,700 00	3,700 00	3,700 00	8 18	8 18	0 54	99 98	0 94	99 98	83 63	16 35	6 115				
3,800 00	3,800 00	3,800 00	3,800 00	8 40	8 40	0 54	99 98	0 94	99 98	83 18	16 80	5 951				
3,900 00	3,900 00	3,900 00	3,900 00	8 63	8 63	0 54	99 98	0 94	99 98	82 73	17 25	5 796				
4,000 00	4,000 00	4,000 00	4,000 00	8 85	8 85	0 54	99 98	0 94	99 98	82 28	17 70	5 649				
4,100 00	4,100 00	4,100 00	4,100 00	9 07	9 07	0 54	99 98	0 94	99 98	81 83	18 15	5 509				
4,200 00	4,200 00	4,200 00	4,200 00	9 30	9 30	0 54	99 98	0 94	99 98	81 39	18 60	5 376				
4,300 00	4,300 00	4,300 00	4,300 00	9 52	9 52	0 54	99 98	0 94	99 98	80 94	19 05	5 249				
4,400 00	4,400 00	4,400 00	4,400 00	9 75	9 75	0 54	99 98	0 94	99 98	80 49	19 50	5 128				
4,500 00	4,500 00	4,500 00	4,500 00	9 97	9 97	0 54	99 98	0 94	99 98	80 04	19 95	5 012				
4,600 00	4,600 00	4,600 00	4,600 00	10 20	10 20	0 54	99 98	0 94	99 98	79 59	20 40	4 902				
4,700 00	4,700 00	4,700 00	4,700 00	10 42	10 42	0 54	99 98	0 94	99 98	79 14	20 85	4 796				
4,800 00	4,800 00	4,800 00	4,800 00	10 65	10 65	0 54	99 98	0 94	99 98	78 69	21 30	4 695				
4,900 00	4,900 00	4,900 00	4,900 00	10 87	10 87	0 54	99 98	0 94	99 98	78 24	21 75	4 598				
5,000 00	5,000 00	5,000 00	5,000 00	11 10	11 10	0 54	99 98	0 94	99 98	77 79	22 20	4 505				
5,100 00	5,100 00	5,100 00	5,100 00	11 32	11 32	0 54	99 98	0 94	99 98	77 34	22 65	4 415				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (H&P 223)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #57H - OH - Plan #1														Offset Site Error	0.00 usft
Survey Program 0-LEAM MWD														Offset Well Error	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)				Between Centres (usft)	Between Ellipses (usft)		
5,200.00	5,200.00	5,200.00	5,200.00	11.55	11.55	0.54	99.98	0.94	99.98	76.89	4.329				
5,300.00	5,300.00	5,300.00	5,300.00	11.77	11.77	0.54	99.98	0.94	99.98	76.44	4.247				
5,400.00	5,400.00	5,400.00	5,400.00	12.00	12.00	0.54	99.98	0.94	99.98	75.99	4.187				
5,500.00	5,500.00	5,500.00	5,500.00	12.22	12.22	0.54	99.98	0.94	99.98	75.54	4.090				
5,600.00	5,600.00	5,600.00	5,600.00	12.45	12.45	0.54	99.98	0.94	99.98	75.09	4.017				
5,700.00	5,700.00	5,700.00	5,700.00	12.67	12.67	0.54	99.98	0.94	99.98	74.64	3.945				
5,793.50	5,793.50	5,793.50	5,793.50	12.88	12.88	0.54	99.98	0.94	99.98	74.22	3.881 CC				
5,800.00	5,800.00	5,800.00	5,800.00	12.89	12.90	-135.97	99.98	0.94	100.00	74.21	3.878 ES, SF				
5,850.00	5,849.98	5,849.98	5,849.98	12.98	13.01	-136.66	99.98	0.94	101.39	75.44	3.906				
5,900.00	5,899.70	5,899.70	5,899.70	13.07	13.12	-138.34	99.98	0.94	105.07	78.99	4.029				
5,950.00	5,949.05	5,949.05	5,949.05	13.16	13.23	-140.80	99.98	0.94	111.19	85.07	4.256				
6,000.00	5,997.82	5,997.75	5,997.75	13.26	13.34	-143.72	99.98	0.94	119.97	93.88	4.599				
6,050.00	6,045.82	6,042.99	6,042.94	13.35	13.43	-147.42	100.08	-0.97	132.12	106.19	5.096				
6,100.00	6,092.89	6,085.05	6,084.70	13.46	13.52	-151.90	100.34	-5.92	148.69	123.06	5.803				
6,150.00	6,138.84	6,123.23	6,122.19	13.58	13.60	-156.34	100.72	-13.06	170.21	145.03	6.758				
6,200.00	6,183.49	6,157.16	6,155.05	13.71	13.67	-160.29	101.17	-21.48	196.78	172.15	7.989				
6,250.00	6,226.70	6,186.75	6,183.26	13.86	13.74	-163.58	101.64	-30.41	228.05	204.08	9.513				
6,300.00	6,268.29	6,212.13	6,207.08	14.04	13.80	-166.20	102.11	-39.21	263.48	240.26	11.345				
6,350.00	6,308.11	6,233.54	6,226.81	14.25	13.85	-168.23	102.55	-47.44	302.43	280.03	13.500				
6,400.00	6,346.00	6,250.00	6,241.78	14.49	13.89	-169.55	102.91	-54.27	344.28	322.76	15.998				
6,450.00	6,381.84	6,265.74	6,255.91	14.77	13.93	-170.77	103.28	-61.21	388.46	367.89	18.886				
6,500.00	6,415.48	6,277.22	6,266.09	15.10	13.97	-171.34	103.56	-66.50	434.48	414.89	22.182				
6,550.00	6,446.81	6,286.03	6,273.83	15.48	13.99	-171.36	103.78	-70.71	481.92	463.33	25.920				
6,600.00	6,475.69	6,300.00	6,285.97	15.91	14.03	-172.41	104.15	-77.61	530.50	513.01	30.331				
6,650.00	6,502.03	6,300.00	6,285.97	16.39	14.03	-169.39	104.15	-77.61	579.66	562.89	34.566				
6,700.00	6,525.73	6,300.00	6,285.97	16.92	14.03	-161.30	104.15	-77.61	629.35	612.04	36.364				
6,750.00	6,546.69	6,300.00	6,285.97	17.50	14.03	-109.83	104.15	-77.61	679.29	649.29	22.645				
6,800.00	6,564.85	6,300.00	6,285.97	18.14	14.03	-22.35	104.15	-77.61	729.26	712.23	42.826				
6,850.00	6,580.13	6,300.00	6,285.97	18.82	14.03	-10.46	104.15	-77.61	779.08	766.00	59.538				
6,900.00	6,592.47	6,300.00	6,285.97	19.54	14.03	-6.65	104.15	-77.61	828.62	817.05	71.610				
6,950.00	6,601.83	6,300.00	6,285.97	20.31	14.03	-4.80	104.15	-77.61	877.75	867.14	82.704				
7,000.00	6,608.18	6,284.04	6,272.08	21.10	13.98	-4.74	103.73	-69.74	926.07	915.92	91.322				
7,050.00	6,611.49	6,277.65	6,266.47	21.93	13.97	-4.19	103.57	-66.70	973.80	963.97	99.079				
7,063.36	6,611.86	6,275.80	6,264.84	22.16	13.96	-4.09	103.52	-65.83	986.42	976.62	100.693				
7,100.00	6,612.57	6,270.83	6,260.26	22.78	13.95	-10.40	103.40	-63.44	1,020.97	1,009.34	87.762				
7,150.00	6,613.57	6,250.00	6,241.78	23.66	13.89	-18.57	102.91	-54.27	1,068.33	1,053.06	89.983				
7,200.00	6,614.58	6,250.00	6,241.78	24.57	13.89	-25.98	102.91	-54.27	1,115.19	1,096.02	58.165				
7,250.00	6,615.60	6,250.00	6,241.78	25.50	13.89	-32.82	102.91	-54.27	1,161.94	1,138.95	50.560				
7,300.00	6,616.64	6,250.00	6,241.78	26.46	13.89	-38.94	102.91	-54.27	1,208.45	1,182.01	45.706				
7,350.00	6,617.68	6,250.00	6,241.78	27.43	13.89	-44.30	102.91	-54.27	1,254.65	1,225.19	42.587				
7,400.00	6,618.73	6,230.07	6,223.63	28.42	13.84	-47.72	102.47	-46.06	1,300.01	1,268.52	41.282				
7,450.00	6,619.78	6,223.86	6,217.92	29.41	13.82	-51.31	102.34	-43.63	1,345.02	1,311.48	40.103				
7,500.00	6,620.84	6,217.86	6,212.38	30.41	13.81	-54.37	102.22	-41.34	1,389.40	1,354.12	39.376				
7,550.00	6,621.89	6,200.00	6,195.73	31.41	13.77	-56.28	101.88	-34.87	1,433.26	1,396.77	39.282				
7,600.00	6,622.93	6,200.00	6,195.73	32.41	13.77	-58.89	101.88	-34.87	1,476.13	1,438.22	38.938				
7,650.00	6,623.96	6,200.00	6,195.73	33.40	13.77	-61.16	101.88	-34.87	1,518.29	1,479.17	38.806				
7,700.00	6,624.99	6,200.00	6,195.73	34.39	13.77	-63.15	101.88	-34.87	1,559.69	1,519.53	38.840				
7,750.00	6,626.00	6,200.00	6,195.73	35.36	13.77	-64.89	101.88	-34.87	1,600.26	1,559.24	39.008				
7,800.00	6,626.99	6,200.00	6,195.73	36.32	13.77	-66.42	101.88	-34.87	1,639.98	1,598.24	39.287				
7,835.71	6,627.68	6,200.00	6,195.73	36.99	13.77	-67.40	101.88	-34.87	1,667.79	1,625.62	39.546				
7,900.00	6,628.93	6,177.83	6,174.81	38.21	13.72	-66.35	101.49	-27.56	1,717.42	1,674.28	39.808				
8,000.00	6,630.86	6,169.94	6,167.29	40.16	13.70	-65.98	101.36	-25.16	1,796.77	1,751.68	39.854				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0.00 usft	North Reference:	Grd
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error.	0.00 usft
Burton Flat Deep Unit - #57H - OH - Plan #1													Offset Well Error.	0 00 usft
Survey Program: 0-LEAM MWD														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,100 00	6,632 80	6,150 00	6,148 16	42 16	13 65	-65 04	101 07	-19 54	1,878 14	1,831 32	46 83	40 108		
8,200 00	6,634 74	6,150 00	6,148 16	44 22	13 65	-65 04	101 07	-19 54	1,960 87	1,911 93	48 94	40 068		
8,300 00	6,636 67	6,150 00	6,148 16	46 32	13 65	-65 04	101 07	-19 54	2,045 13	1,994 06	51 07	40 045		
8,400 00	6,638 61	6,150 00	6,148 16	48 46	13 65	-65 04	101 07	-19 54	2,130 76	2,077 54	53 22	40 037		
8,500 00	6,640 54	6,150 00	6,148 16	50 63	13 65	-65 04	101 07	-19 54	2,217 59	2,162 21	55 38	40 040		
8,600 00	6,642 48	6,150 00	6,148 16	52 83	13 65	-65 04	101 07	-19 54	2,305 49	2,247 93	57 56	40 053		
8,700 00	6,644 41	6,129 90	6,128 69	55 06	13 61	-64 10	100 80	-14 56	2,393 92	2,334 63	59 29	40 373		
8,800 00	6,646 35	6,125 71	6,124 61	57 31	13 60	-63 90	100 75	-13 61	2,483 43	2,422 05	61 38	40 461		
8,900 00	6,648 28	6,121 80	6,120 79	59 58	13 59	-63 72	100 71	-12 75	2,573 68	2,510 21	63 47	40 550		
9,000 00	6,650 22	6,100 00	6,099 43	61 87	13 55	-62 71	100 48	-8 42	2,664 93	2,599 83	65 10	40 933		
9,100 00	6,652 15	6,100 00	6,099 43	64 17	13 55	-62 71	100 48	-8 42	2,756 34	2,689 05	67 28	40 965		
9,200 00	6,654 09	6,100 00	6,099 43	66 49	13 55	-62 71	100 48	-8 42	2,848 32	2,778 85	69 47	41 000		
9,300 00	6,656 02	6,100 00	6,099 43	68 83	13 55	-62 71	100 48	-8 42	2,940 83	2,869 16	71 66	41 038		
9,400 00	6,657 96	6,100 00	6,099 43	71 17	13 55	-62 71	100 48	-8 42	3,033 81	2,959 95	73 86	41 077		
9,500 00	6,659 90	6,100 00	6,099 43	73 53	13 55	-62 71	100 48	-8 42	3,127 22	3,051 17	76 06	41 117		
9,600 00	6,661 83	6,100 00	6,099 43	75 89	13 55	-62 71	100 48	-8 42	3,221 03	3,142 78	78 26	41 159		
9,700 00	6,663 77	6,100 00	6,099 43	78 26	13 55	-62 71	100 48	-8 42	3,315 21	3,234 74	80 46	41 201		
9,800 00	6,665 70	6,100 00	6,099 43	80 64	13 55	-62 71	100 48	-8 42	3,409 71	3,327 04	82 67	41 243		
9,900 00	6,667 64	6,100 00	6,099 43	83 03	13 55	-62 71	100 48	-8 42	3,504 52	3,419 84	84 89	41 285		
10,000 00	6,669 57	6,100 00	6,099 43	85 43	13 55	-62 71	100 48	-8 42	3,599 61	3,512 51	87 10	41 328		
10,100 00	6,671 51	6,100 00	6,099 43	87 83	13 55	-62 71	100 48	-8 42	3,694 96	3,605 65	89 32	41 370		
10,200 00	6,673 44	6,100 00	6,099 43	90 24	13 55	-62 71	100 48	-8 42	3,790 55	3,699 02	91 53	41 412		
10,300 00	6,675 38	6,100 00	6,099 43	92 65	13 55	-62 71	100 48	-8 42	3,886 36	3,792 61	93 75	41 453		
10,400 00	6,677 31	6,100 00	6,099 43	95 07	13 55	-62 71	100 48	-8 42	3,982 38	3,886 40	95 97	41 494		
10,500 00	6,679 25	6,100 00	6,099 43	97 49	13 55	-62 71	100 48	-8 42	4,078 59	3,980 39	98 20	41 534		
10,600 00	6,681 18	6,100 00	6,099 43	99 91	13 55	-62 71	100 48	-8 42	4,174 97	4,074 55	100 42	41 574		
10,700 00	6,683 12	6,100 00	6,099 43	102 34	13 55	-62 71	100 48	-8 42	4,271 53	4,168 88	102 65	41 613		
10,800 00	6,685 06	6,077 48	6,077 20	104 77	13 50	-61 69	100 28	-4 80	4,367 74	4,263 78	103 96	42 013		
10,900 00	6,686 99	6,076 07	6,075 81	107 21	13 50	-61 62	100 27	-4 61	4,464 53	4,358 42	106 11	42 074		
11,000 00	6,688 93	6,074 72	6,074 47	109 65	13 50	-61 56	100 26	-4 42	4,561 46	4,453 19	108 26	42 132		
11,100 00	6,690 86	6,073 42	6,073 19	112 09	13 49	-61 50	100 26	-4 25	4,658 51	4,548 09	110 42	42 190		
11,200 00	6,692 80	6,050 00	6,049 92	114 53	13 44	-60 45	100 11	-1 58	4,756 16	4,644 58	111 58	42 625		
11,300 00	6,694 73	6,050 00	6,049 92	116 98	13 44	-60 45	100 11	-1 58	4,853 39	4,739 62	113 77	42 659		
11,400 00	6,696 67	6,050 00	6,049 92	119 43	13 44	-60 45	100 11	-1 58	4,950 73	4,834 77	115 96	42 693		
11,500 00	6,698 60	6,050 00	6,049 92	121 88	13 44	-60 45	100 11	-1 58	5,048 18	4,930 02	118 15	42 725		
11,520 51	6,699 00	6,050 00	6,049 92	122 39	13 44	-60 45	100 11	-1 58	5,068 18	4,949 57	118 60	42 732		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Gnd
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #58H - OH - Plan #1												Offset Site Error	0 00 usft
Survey Program: 0-LEAM MWD												Offset Well Error	0 00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0 00	0 00	0 00	0 00	0 00	0 00	-179 51	-49 96	-0 43	49 96				
100 00	100 00	100 00	100 00	0 08	0 08	-179 51	-49 96	-0 43	49 96	49 79	0 17	296 378	
200 00	200 00	200 00	200 00	0 31	0 31	-179 51	-49 96	-0 43	49 96	49 34	0 62	80 830	
300 00	300 00	300 00	300 00	0 53	0 53	-179 51	-49 96	-0 43	49 96	48 89	1 07	46 797	
400 00	400 00	400 00	400 00	0 76	0 76	-179 51	-49 96	-0 43	49 96	48 44	1 52	32 931	
500 00	500 00	500 00	500 00	0 98	0 98	-179 51	-49 96	-0 43	49 96	48 00	1 97	25 404	
600 00	600 00	600 00	600 00	1 21	1 21	-179 51	-49 96	-0 43	49 96	47 55	2 42	20 678	
700 00	700 00	700 00	700 00	1 43	1 43	-179 51	-49 96	-0 43	49 96	47 10	2 87	17 434	
800 00	800 00	800 00	800 00	1 66	1 66	-179 51	-49 96	-0 43	49 96	46 65	3 32	15 070	
900 00	900 00	900 00	900 00	1 88	1 88	-179 51	-49 96	-0 43	49 96	46 20	3 78	13 271	
1,000 00	1,000 00	1,000 00	1,000 00	2 11	2 11	-179 51	-49 96	-0 43	49 96	45 75	4 21	11 855	
1,100 00	1,100 00	1,100 00	1,100 00	2 33	2 33	-179 51	-49 96	-0 43	49 96	45 30	4 66	10 712	
1,200 00	1,200 00	1,200 00	1,200 00	2 56	2 56	-179 51	-49 96	-0 43	49 96	44 85	5 11	9 771	
1,300 00	1,300 00	1,300 00	1,300 00	2 78	2 78	-179 51	-49 96	-0 43	49 96	44 40	5 56	8 981	
1,400 00	1,400 00	1,400 00	1,400 00	3 01	3 01	-179 51	-49 96	-0 43	49 96	43 95	6 01	8 310	
1,500 00	1,500 00	1,500 00	1,500 00	3 23	3 23	-179 51	-49 96	-0 43	49 96	43 50	6 46	7 732	
1,600 00	1,600 00	1,600 00	1,600 00	3 46	3 46	-179 51	-49 96	-0 43	49 96	43 05	6 91	7 229	
1,700 00	1,700 00	1,700 00	1,700 00	3 68	3 68	-179 51	-49 96	-0 43	49 96	42 60	7 36	6 787	
1,800 00	1,800 00	1,800 00	1,800 00	3 91	3 91	-179 51	-49 96	-0 43	49 96	42 15	7 81	6 397	
1,900 00	1,900 00	1,900 00	1,900 00	4 13	4 13	-179 51	-49 96	-0 43	49 96	41 70	8 26	6 049	
2,000 00	2,000 00	2,000 00	2,000 00	4 35	4 35	-179 51	-49 96	-0 43	49 96	41 25	8 71	5 736	
2,100 00	2,100 00	2,100 00	2,100 00	4 58	4 58	-179 51	-49 96	-0 43	49 96	40 80	9 16	5 455	
2,200 00	2,200 00	2,200 00	2,200 00	4 80	4 80	-179 51	-49 96	-0 43	49 96	40 35	9 61	5 200	
2,300 00	2,300 00	2,300 00	2,300 00	5 03	5 03	-179 51	-49 96	-0 43	49 96	39 90	10 06	4 967	
2,400 00	2,400 00	2,400 00	2,400 00	5 25	5 25	-179 51	-49 96	-0 43	49 96	39 45	10 51	4 755	
2,500 00	2,500 00	2,500 00	2,500 00	5 48	5 48	-179 51	-49 96	-0 43	49 96	39 00	10 96	4 560	
2,600 00	2,600 00	2,600 00	2,600 00	5 70	5 70	-179 51	-49 96	-0 43	49 96	38 55	11 41	4 380	
2,700 00	2,700 00	2,700 00	2,700 00	5 93	5 93	-179 51	-49 96	-0 43	49 96	38 11	11 86	4 214	
2,800 00	2,800 00	2,800 00	2,800 00	6 15	6 15	-179 51	-49 96	-0 43	49 96	37 66	12 31	4 060	
2,900 00	2,900 00	2,900 00	2,900 00	6 38	6 38	-179 51	-49 96	-0 43	49 96	37 21	12 76	3 917	
3,000 00	3,000 00	3,000 00	3,000 00	6 60	6 60	-179 51	-49 96	-0 43	49 96	36 76	13 21	3 784	
3,100 00	3,100 00	3,100 00	3,100 00	6 83	6 83	-179 51	-49 96	-0 43	49 96	36 31	13 65	3 659	
3,200 00	3,200 00	3,200 00	3,200 00	7 05	7 05	-179 51	-49 96	-0 43	49 96	35 86	14 10	3 542	
3,300 00	3,300 00	3,300 00	3,300 00	7 28	7 28	-179 51	-49 96	-0 43	49 96	35 41	14 55	3 433	
3,400 00	3,400 00	3,400 00	3,400 00	7 50	7 50	-179 51	-49 96	-0 43	49 96	34 96	15 00	3 330	
3,500 00	3,500 00	3,500 00	3,500 00	7 73	7 73	-179 51	-49 96	-0 43	49 96	34 51	15 45	3 233	
3,600 00	3,600 00	3,600 00	3,600 00	7 95	7 95	-179 51	-49 96	-0 43	49 96	34 06	15 90	3 142	
3,700 00	3,700 00	3,700 00	3,700 00	8 18	8 18	-179 51	-49 96	-0 43	49 96	33 61	16 35	3 055	
3,800 00	3,800 00	3,800 00	3,800 00	8 40	8 40	-179 51	-49 96	-0 43	49 96	33 16	16 80	2 974	
3,900 00	3,900 00	3,900 00	3,900 00	8 63	8 63	-179 51	-49 96	-0 43	49 96	32 71	17 25	2 896	
4,000 00	4,000 00	4,000 00	4,000 00	8 85	8 85	-179 51	-49 96	-0 43	49 96	32 26	17 70	2 823	
4,100 00	4,100 00	4,100 00	4,100 00	9 07	9 07	-179 51	-49 96	-0 43	49 96	31 81	18 15	2 753	
4,200 00	4,200 00	4,200 00	4,200 00	9 30	9 30	-179 51	-49 96	-0 43	49 96	31 36	18 60	2 686	
4,300 00	4,300 00	4,300 00	4,300 00	9 52	9 52	-179 51	-49 96	-0 43	49 96	30 91	19 05	2 623	
4,400 00	4,400 00	4,400 00	4,400 00	9 75	9 75	-179 51	-49 96	-0 43	49 96	30 46	19 50	2 562	
4,500 00	4,500 00	4,500 00	4,500 00	9 97	9 97	-179 51	-49 96	-0 43	49 96	30 01	19 95	2 505	
4,600 00	4,600 00	4,600 00	4,600 00	10 20	10 20	-179 51	-49 96	-0 43	49 96	29 56	20 40	2 449	
4,700 00	4,700 00	4,700 00	4,700 00	10 42	10 42	-179 51	-49 96	-0 43	49 96	29 11	20 85	2 397	
4,800 00	4,800 00	4,800 00	4,800 00	10 65	10 65	-179 51	-49 96	-0 43	49 96	28 67	21 30	2 346	
4,900 00	4,900 00	4,900 00	4,900 00	10 87	10 87	-179 51	-49 96	-0 43	49 96	28 22	21 75	2 298	
5,000 00	5,000 00	5,000 00	5,000 00	11 10	11 10	-179 51	-49 96	-0 43	49 96	27 77	22 20	2 251	
5,100 00	5,100 00	5,100 00	5,100 00	11 32	11 32	-179 51	-49 96	-0 43	49 96	27 32	22 65	2 206	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Gnd
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design - Burton Flat Deep Unit - #58H - OH - Plan #1													Offset Site Error:	0 00 usft
Survey Program 0-LEAM MWD													Offset Well Error	0 00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,200 00	5,200 00	5,200 00	5,200 00	11 55	11 55	-179 51	-49 96	-0 43	49 96	26 87	23 09	2 163		
5,300 00	5,300 00	5,300 00	5,300 00	11 77	11 77	-179 51	-49 96	-0 43	49 96	26 42	23 54	2 122		
5,400 00	5,400 00	5,400 00	5,400 00	12 00	12 00	-179 51	-49 96	-0 43	49 96	25 97	23 99	2 082		
5,500 00	5,500 00	5,500 00	5,500 00	12 22	12 22	-179 51	-49 96	-0 43	49 96	25 52	24 44	2 044		
5,600 00	5,600 00	5,600 00	5,600 00	12 45	12 45	-179 51	-49 96	-0 43	49 96	25 07	24 89	2 007		
5,700 00	5,700 00	5,700 00	5,700 00	12 67	12 67	-179 51	-49 96	-0 43	49 96	24 62	25 34	1 971		
5,793 50	5,793 50	5,793 50	5,793 50	12 88	12 88	-179 51	-49 96	-0 43	49 96	24 20	25 76	1 939		
5,800 00	5,800 00	5,800 00	5,800 00	12 89	12 90	44 01	-49 96	-0 43	49 94	24 15	25 79	1 937		
5,850 00	5,849 96	5,849 96	5,849 96	12 98	13 01	45 68	-49 96	-0 43	48 58	22 61	25 96	1 871		
5,900 00	5,899 70	5,898 51	5,898 51	13 07	13 11	50 38	-50 22	-0 60	45 53	19 42	26 11	1 744		
5,950 00	5,949 05	5,945 20	5,945 10	13 16	13 19	59 73	-52 61	-2 22	43 80	17 54	26 25	1 668		
5,953 24	5,952 23	5,948 20	5,948 09	13 17	13 20	60 50	-52 85	-2 38	43 79	17 51	26 28	1 666 CC, ES, SF		
6,000 00	5,997 82	5,991 09	5,990 61	13 26	13 27	72 87	-57 41	-5 46	45 67	19 20	26 47	1 725		
6,050 00	6,045 82	6,035 77	6,034 49	13 35	13 35	86 29	-64 40	-10 17	52 94	26 23	26 71	1 982		
6,100 00	6,092 89	6,078 91	6,076 27	13 46	13 43	96 96	-73 29	-16 17	66 01	39 14	26 87	2 457		
6,150 00	6,138 84	6,120 23	6,115 61	13 58	13 51	104 24	-83 74	-23 22	84 20	57 25	26 95	3 124		
6,200 00	6,183 49	6,159 53	6,152 30	13 71	13 59	108 80	-95 41	-31 09	106 61	79 62	26 99	3 949		
6,250 00	6,226 70	6,196 67	6,186 20	13 86	13 66	111 45	-107 96	-39 55	132 55	105 50	27 05	4 900		
6,300 00	6,268 29	6,231 56	6,217 31	14 04	13 74	112 75	-121 06	-48 39	161 51	134 36	27 15	5 949		
6,350 00	6,308 11	6,264 20	6,245 68	14 25	13 83	113 08	-134 43	-57 41	193 08	165 76	27 32	7 068		
6,400 00	6,346 00	6,294 59	6,271 40	14 49	13 91	112 66	-147 84	-66 45	226 93	199 36	27 58	8 229		
6,450 00	6,381 84	6,322 78	6,294 64	14 77	14 00	111 61	-161 08	-75 38	262 79	234 84	27 95	9 402		
6,500 00	6,415 48	6,350 00	6,316 48	15 10	14 09	110 11	-174 57	-84 48	300 39	271 95	28 44	10 563		
6,550 00	6,446 81	6,372 87	6,334 30	15 48	14 17	107 90	-186 43	-92 48	339 52	310 43	29 09	11 673		
6,600 00	6,475 69	6,400 00	6,354 88	15 91	14 28	105 75	-201 10	-102 37	380 00	350 19	29 81	12 747		
6,650 00	6,502 03	6,415 17	6,366 06	16 39	14 34	102 18	-209 58	-108 09	421 53	390 79	30 74	13 714		
6,700 00	6,525 73	6,433 82	6,379 39	16 92	14 43	98 58	-220 15	-115 23	464 04	432 35	31 70	14 639		
6,750 00	6,546 69	6,450 00	6,390 94	17 50	14 50	94 46	-229 78	-121 72	507 35	474 67	32 68	15 523		
6,800 00	6,564 85	6,465 55	6,401 66	18 14	14 58	89 98	-239 12	-128 02	551 29	517 68	33 61	16 401		
6,850 00	6,580 13	6,479 17	6,410 85	18 82	14 65	85 05	-247 46	-133 65	595 73	561 32	34 40	17 316		
6,900 00	6,592 47	6,491 32	6,418 88	19 54	14 72	79 80	-255 02	-138 74	640 53	605 57	34 96	18 320		
6,950 00	6,601 83	6,500 00	6,424 52	20 31	14 76	74 02	-260 48	-142 43	685 59	650 42	35 17	19 495		
7,000 00	6,608 18	6,511 38	6,431 80	21 10	14 83	68 78	-267 74	-147 32	730 76	695 62	35 13	20 800		
7,050 00	6,611 49	6,519 34	6,436 81	21 93	14 88	63 26	-272 87	-150 79	775 95	741 25	34 70	22 364		
7,063 36	6,611 66	6,521 24	6,437 99	22 16	14 89	61 80	-274 10	-151 62	788 01	753 49	34 53	22 824		
7,100 00	6,612 57	6,525 93	6,440 89	22 78	14 92	60 24	-277 15	-153 67	821 48	786 70	34 78	23 619		
7,150 00	6,613 57	6,531 03	6,444 03	23 66	14 95	57 13	-280 49	-155 92	868 22	833 51	34 72	25 010		
7,200 00	6,614 58	6,534 59	6,446 20	24 57	14 97	52 39	-282 83	-157 50	915 96	882 11	33 85	27 059		
7,250 00	6,615 60	6,536 57	6,447 40	25 50	14 98	45 09	-284 13	-158 38	964 45	932 96	31 49	30 627		
7,300 00	6,616 64	6,538 94	6,447 63	26 46	14 98	33 73	-284 38	-158 55	1,013 48	987 13	26 35	38 465		
7,350 00	6,617 68	6,535 72	6,446 89	27 43	14 98	16 68	-283 57	-158 00	1,062 83	1,045 60	17 23	61 690		
7,400 00	6,618 73	6,532 92	6,445 18	28 42	14 96	-5 28	-281 73	-156 76	1,112 35	1,100 36	11 99	92 796		
7,450 00	6,619 78	6,528 58	6,442 53	29 41	14 93	-26 42	-278 88	-154 84	1,161 85	1,140 58	21 27	54 618		
7,500 00	6,620 84	6,522 78	6,438 94	30 41	14 90	-42 09	-275 10	-152 29	1,211 21	1,181 32	29 89	40 522		
7,550 00	6,621 89	6,515 58	6,434 44	31 41	14 85	-52 46	-270 44	-149 14	1,260 28	1,225 13	35 15	35 856		
7,600 00	6,622 93	6,507 08	6,429 08	32 41	14 80	-59 28	-264 98	-145 46	1,308 93	1,270 62	38 31	34 169		
7,650 00	6,623 98	6,500 00	6,424 52	33 40	14 76	-63 99	-260 48	-142 43	1,357 05	1,316 69	40 36	33 622		
7,700 00	6,624 99	6,486 62	6,415 79	34 39	14 69	-67 11	-252 08	-136 76	1,404 54	1,362 84	41 70	33 683		
7,750 00	6,626 00	6,474 92	6,408 00	35 36	14 63	-69 43	-244 84	-131 88	1,451 29	1,408 62	42 67	34 010		
7,800 00	6,626 99	6,462 41	6,399 52	36 32	14 57	-71 15	-237 22	-126 74	1,497 22	1,453 84	43 38	34 516		
7,835 71	6,627 68	6,450 00	6,390 94	36 99	14 50	-71 98	-229 78	-121 72	1,529 48	1,485 76	43 72	34 982		
7,900 00	6,628 93	6,436 35	6,381 33	38 21	14 44	-71 42	-221 74	-116 30	1,587 24	1,542 33	44 91	35 339		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #54H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239 00usft (H&P 223)
Site Error:	0 00 usft	North Reference:	Grid
Reference Well:	#54H	Survey Calculation Method:	Minimum Curvature
Well Error:	0 00 usft	Output errors are at	2 00 sigma
Reference Wellbore	OH	Database:	EDM 5000 1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #58H - OH - Plan #1													Offset Site Error.	0 00 usft
Survey Program 0-LEAM MWD													Offset Well Error	0 00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)						
8,000 00	6,630 86	6,411 95	6,363 70	40 16	14 33	-70 42	-207 76	-108 87	1,677 58	1,630 84	46 74	35 893		
8,100 00	6,632 80	6,389 33	6,346 86	42 16	14 24	-69 49	-195 25	-98 43	1,768 47	1,719 88	48 58	36 400		
8,200 00	6,634 74	6,368 35	6,330 81	44 22	14 18	-68 62	-184 04	-90 87	1,859 88	1,809 43	50 45	36 867		
8,300 00	6,636 67	6,350 00	6,316 46	46 32	14 09	-67 86	-174 57	-84 48	1,951 79	1,899 45	52 34	37 288		
8,400 00	6,638 61	6,330 76	6,301 10	48 46	14 02	-67 07	-164 96	-78 00	2,044 16	1,989 94	54 22	37 703		
8,500 00	6,640 54	6,313 90	6,287 39	50 63	13 97	-66 37	-156 83	-72 51	2,136 96	2,080 84	56 12	38 081		
8,600 00	6,642 48	6,300 00	6,275 91	52 83	13 93	-65 80	-150 32	-68 13	2,230 16	2,172 10	58 06	38 414		
8,700 00	6,644 41	6,283 51	6,262 11	55 06	13 88	-65 12	-142 85	-63 09	2,323 73	2,263 79	59 94	38 789		
8,800 00	6,646 35	6,269 80	6,250 47	57 31	13 84	-64 55	-136 84	-59 03	2,417 65	2,355 80	61 85	39 086		
8,900 00	6,648 28	6,250 00	6,233 43	59 58	13 79	-63 73	-128 48	-53 39	2,511 92	2,448 29	63 62	39 480		
9,000 00	6,650 22	6,250 00	6,233 43	61 87	13 79	-63 73	-128 48	-53 39	2,606 46	2,540 64	65 82	39 602		
9,100 00	6,652 15	6,233 60	6,219 10	64 17	13 75	-63 06	-121 86	-48 93	2,701 28	2,633 65	67 63	39 942		
9,200 00	6,654 09	6,222 96	6,209 72	66 49	13 72	-62 62	-117 71	-46 13	2,796 37	2,726 81	69 56	40 199		
9,300 00	6,656 02	6,200 00	6,189 21	68 83	13 67	-61 67	-109 15	-40 36	2,891 78	2,820 62	71 16	40 635		
9,400 00	6,657 96	6,200 00	6,189 21	71 17	13 67	-61 67	-109 15	-40 36	2,987 28	2,913 94	73 34	40 731		
9,500 00	6,659 90	6,200 00	6,189 21	73 53	13 67	-61 67	-109 15	-40 36	3,083 07	3,007 55	75 52	40 823		
9,600 00	6,661 83	6,200 00	6,189 21	75 89	13 67	-61 67	-109 15	-40 36	3,179 12	3,101 41	77 71	40 912		
9,700 00	6,663 77	6,178 15	6,169 40	78 26	13 62	-60 78	-101 52	-35 21	3,275 20	3,195 95	79 26	41 324		
9,800 00	6,665 70	6,170 59	6,162 47	80 64	13 61	-60 47	-98 99	-33 50	3,371 55	3,290 35	81 20	41 522		
9,900 00	6,667 64	6,150 00	6,143 47	83 03	13 57	-59 63	-92 43	-29 08	3,468 12	3,385 41	82 72	41 926		
10,000 00	6,669 57	6,150 00	6,143 47	85 43	13 57	-59 63	-92 43	-29 08	3,564 73	3,479 85	84 88	41 999		
10,100 00	6,671 51	6,150 00	6,143 47	87 83	13 57	-59 63	-92 43	-29 08	3,661 51	3,574 48	87 03	42 069		
10,200 00	6,673 44	6,150 00	6,143 47	90 24	13 57	-59 63	-92 43	-29 08	3,758 47	3,669 27	89 20	42 137		
10,300 00	6,675 38	6,150 00	6,143 47	92 65	13 57	-59 63	-92 43	-29 08	3,855 58	3,764 22	91 36	42 203		
10,400 00	6,677 31	6,132 40	6,127 05	95 07	13 53	-58 91	-87 18	-25 53	3,952 70	3,859 82	92 88	42 555		
10,500 00	6,679 25	6,127 04	6,122 02	97 49	13 52	-58 69	-85 64	-24 50	4,050 00	3,955 17	94 84	42 706		
10,600 00	6,681 18	6,121 91	6,117 19	99 91	13 51	-58 48	-84 20	-23 53	4,147 41	4,050 62	96 79	42 851		
10,700 00	6,683 12	6,100 00	6,096 44	102 34	13 47	-57 59	-78 39	-19 61	4,245 03	4,148 97	98 06	43 289		
10,800 00	6,685 06	6,100 00	6,096 44	104 77	13 47	-57 59	-78 39	-19 61	4,342 58	4,242 39	100 19	43 343		
10,900 00	6,686 99	6,100 00	6,096 44	107 21	13 47	-57 59	-78 39	-19 61	4,440 23	4,337 91	102 32	43 395		
11,000 00	6,688 93	6,100 00	6,096 44	109 65	13 47	-57 59	-78 39	-19 61	4,537 99	4,433 54	104 45	43 446		
11,100 00	6,690 86	6,100 00	6,096 44	112 09	13 47	-57 59	-78 39	-19 61	4,635 84	4,529 26	106 58	43 495		
11,200 00	6,692 80	6,100 00	6,096 44	114 53	13 47	-57 59	-78 39	-19 61	4,733 79	4,625 07	108 72	43 543		
11,300 00	6,694 73	6,100 00	6,096 44	116 98	13 47	-57 59	-78 39	-19 61	4,831 82	4,720 97	110 85	43 589		
11,400 00	6,696 67	6,100 00	6,096 44	119 43	13 47	-57 59	-78 39	-19 61	4,929 92	4,816 94	112 98	43 634		
11,500 00	6,698 60	6,100 00	6,096 44	121 88	13 47	-57 59	-78 39	-19 61	5,028 10	4,912 98	115 12	43 678		
11,520 51	6,699 00	6,100 00	6,096 44	122 39	13 47	-57 59	-78 39	-19 61	5,048 25	4,932 69	115 56	43 687		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation