

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF DEVON ENERGY PRODUCTION
COMPANY, L.P. FOR A NON-STANDARD OIL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.**

Case No. 15057

**APPLICATION OF DEVON ENERGY PRODUCTION
COMPANY, L.P. FOR A NON-STANDARD OIL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.**

Case No. 15061

AFFIDAVIT OF JOHN GREEN

COUNTY OF OKLAHOMA)
) ss.
STATE OF OKLAHOMA)

John Green, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Devon Energy Production Company, L.P. ("Devon"), and I am familiar with the geological matters involved in this case.
3. The geological plats attached hereto show the following:
 - (a) Exhibit G is a structure map on top of the Paddock formation, which is part of the West Maljamar-Yeso Pool. There are no faults in the Paddock or Blinebry formations. Structure dips to the southeast. Devon desires the bottom hole locations of its wells to be updip from the surface locations.
 - (b) Nearby Yeso wells are identified on Exhibit G. There are a number of wells completed in other formations which are not shown on the map.
 - (c) Exhibit H is a gross isopach of the Yeso Group. The gross thickness is relatively uniform across the well unit. The plat contains the line of an east-west cross section, which is Exhibit I.
 - (d) Exhibit I is west-east cross section A -A'. The Paddock zone is approximately 775 feet thick, the Blinebry zone is approximately 500 feet thick, and each zone is continuous across the well unit. Two wells are need to adequately test the Yeso Group.

Oil Conservation Division
Case No. _____
Exhibit No. 2

(e) The horizontal wellbore will be at a depth of approximately 6960 feet in the BAE 14 Fed. Com. Well No. 8, and approximately 5800 feet in the BAE 14 Fed. Com. Well No. 7.

4. I conclude from the geologic plats that the project area is justified from a geologic standpoint.

5. Each quarter-quarter section in the project area will contribute more or less equally to production in each well.

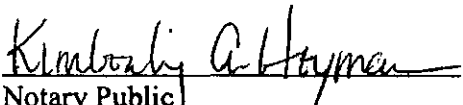
6. In this area there is no preference for standup or laydown units; each type of unit is equally productive.

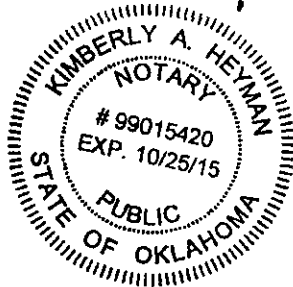
7. Exhibits J-1 (Case 15057) and J-2 (Case 15061) are the proposed horizontal well drilling plans. The wells will have approximately eight completion stages, and the fracture treatment will use approximately two million pounds of sand and one million gallons of water.

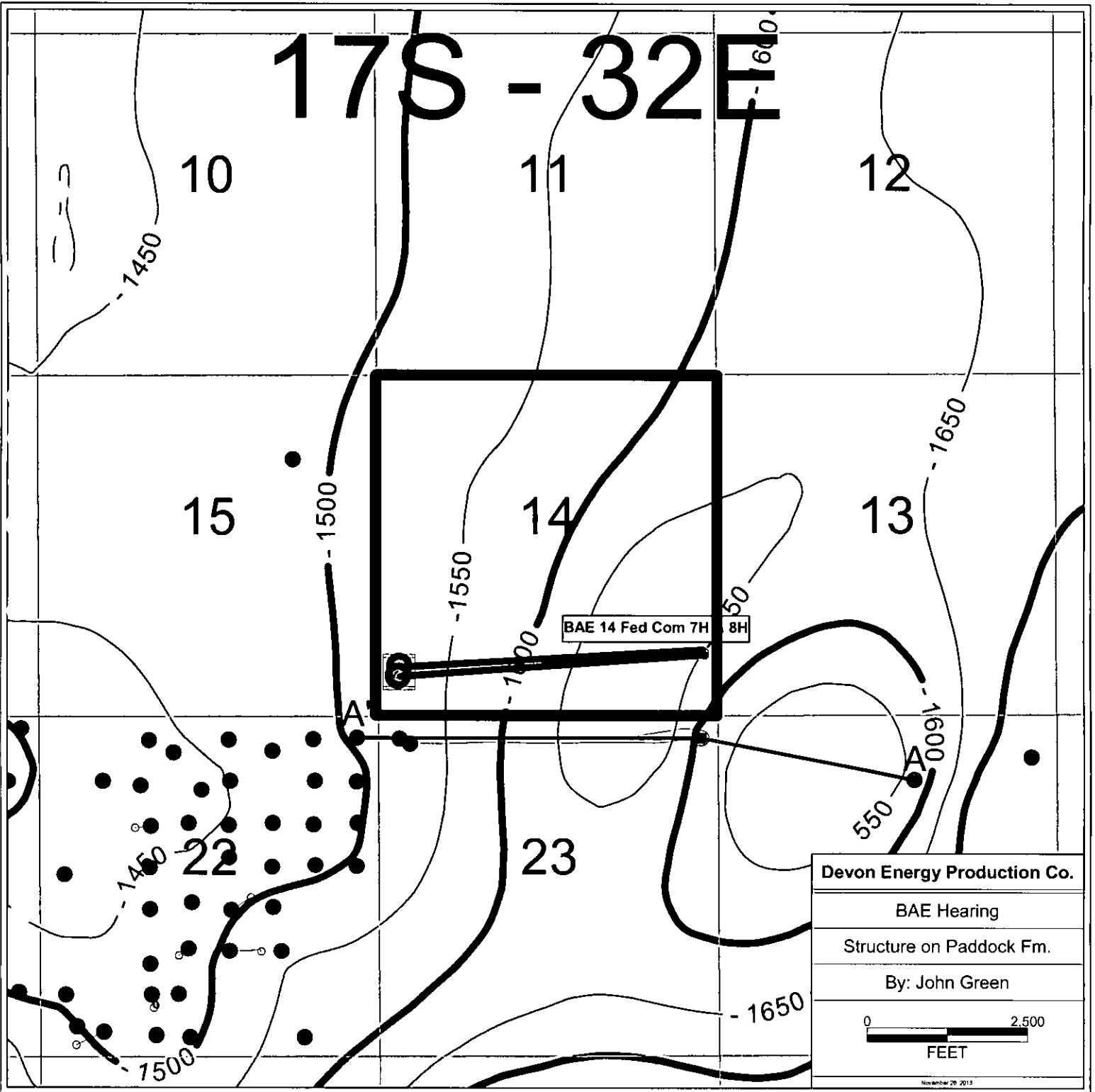

John Green

SUBSCRIBED AND SWORN TO before me this 4 day of December, 2013 by John Green.

My Commission Expires: 10/25/15

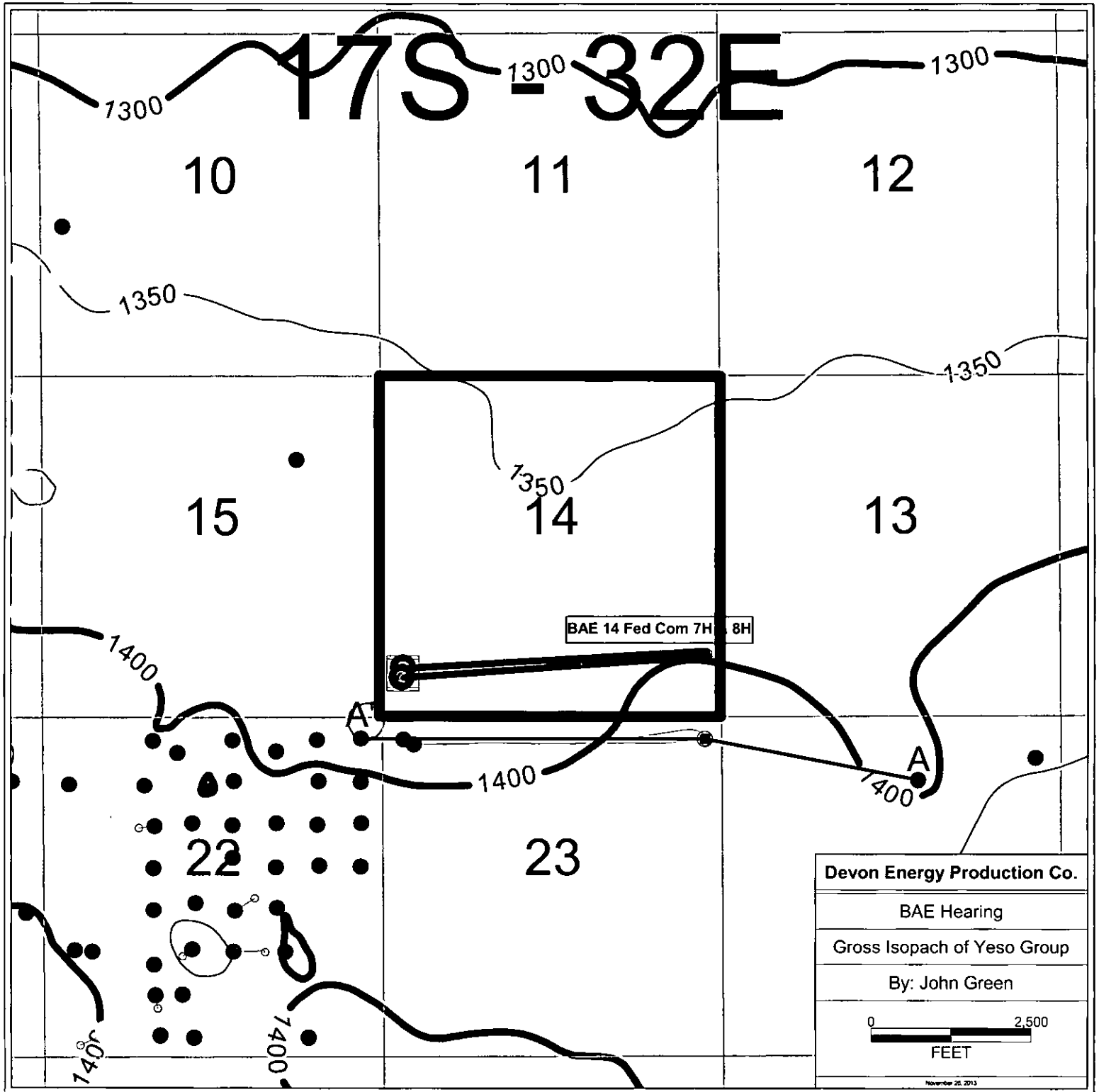

Notary Public
#99015420





PETRA 11/28/2013 8:58:59 AM

Oil Conservation Division
Case No. 6
Exhibit No. 3



PETRA 11/26/2013 9:00:22 AM

Oil Conservation Division
Case No. H
Exhibit No. H

BAE HEARING

A'

A

Subsea
Depth(ft)
-1240 -

Subsea
Depth(ft)
-1240 -

COG OPERATING LIMITED LIABILITY CORP
JC FEDERAL
11

DEVON ENERGY PROD
CASWELL 23 FEDERAL
1H

COG OPERATING LIMITED LIABILITY CORP
M C FEDERAL
41

GLOR
PADDOCK

GLOR
PADDOCK

BLINEBRY

BLINEBRY

TUBB

TUBB

-1740 -

-1740 -

-2240 -

-2240 -

-2740 -

-2740 -

Oil Conservation Division
Case No. _____
Exhibit No. **I**

DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: BAE 14 Fed Com
 Well: 8H
 Wellbore: OH
 Design: Plan #1

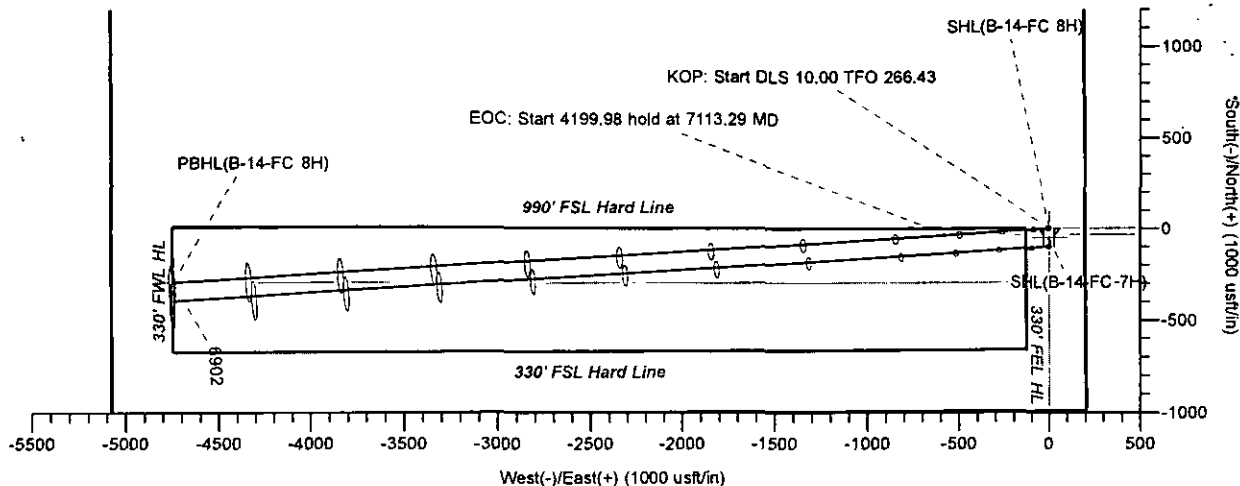
devon



Azimuths to Grid North
 True North: -0.33°
 Magnetic North: 7.17°

Magnetic Field
 Strength: 48793.6snT
 Dip Angle: 60.68°
 Date: 02/07/2013
 Model: IGRF2010

Oil Conservation Division
 Case No. **J-1**
 Exhibit No.

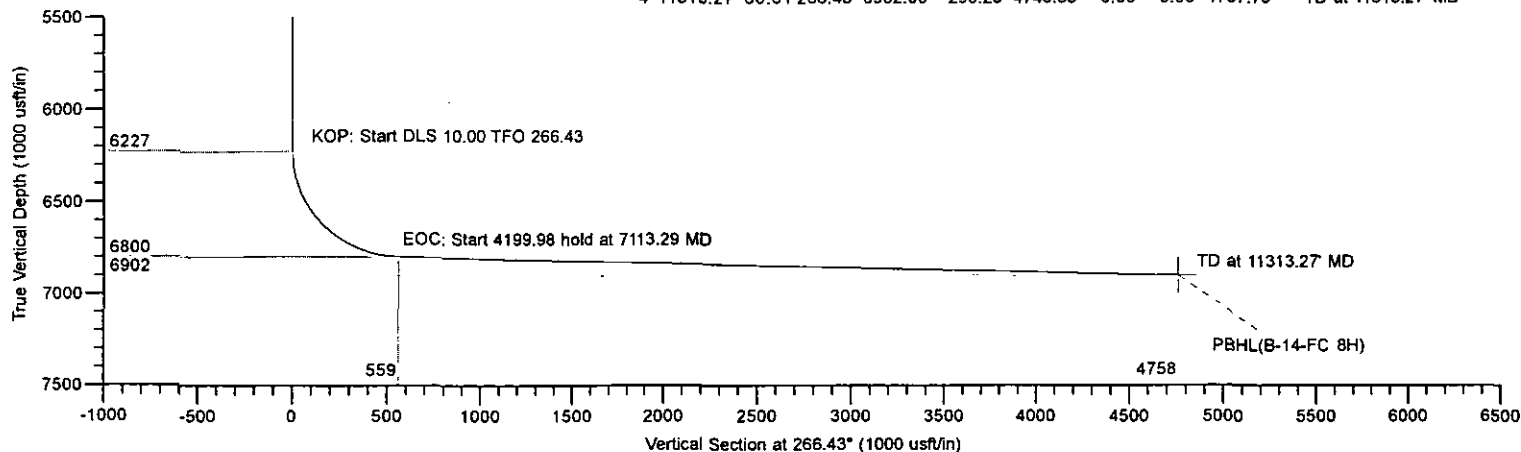


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(B-14-FC 8H)	0.00	0.00	0.00	666227.35	726923.8632° 49' 48.098 N	103° 43' 44.915 W	
PBHL(B-14-FC 8H)	6902.00	-296.23	-4748.55	665931.12	722175.3132° 49' 45.433 N	103° 44' 40.585 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	6227.21	0.00	0.00	6227.21	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 10.00 TFO 266.43
3	7113.29	88.61	266.43	6800.00	-34.81	-557.96	10.00	266.43	559.04	EOC: Start 4199.98 hold at 7113.29 MD
4	11313.27	88.61	266.43	6902.00	-296.23	-4748.55	0.00	0.00	4757.78	TD at 11313.27 MD



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

Plan: Plan #1 (8H/OH)
 BAE 14 Fed Com
 Created By: Tyler Carlson
 Date: 19/34, February 07 2013
 Approved: _____ Date: _____

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Lea 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:	BAE 14 Fed Com		
Site Position:	Map	Northing:	668,346.18 usft
From:		Easting:	726,910.45 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 9.064 N
		Longitude:	103° 43' 44.930 W
		Grid Convergence:	0.33 °

Well:	8H		
Well Position	+N/-S	-2,118.83 usft	Northing:
	+E/-W	13.41 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			4,082.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/07/13	7.50
			Dip Angle
			(°)
			60.68
			Field Strength
			(nT)
			48,794

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
			(°)
			266.43

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	
6,227.21	0.00	0.00	6,227.21	0.00	0.00	0.00	0.00	0.00	0.00	
7,113.29	88.61	266.43	6,800.00	-34.81	-557.96	10.00	10.00	-10.56	266.43	
11,313.27	88.61	266.43	6,902.00	-296.23	-4,748.55	0.00	0.00	0.00	0.00	PBHL(B-14-FC 8H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	8H	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
13 3/8"									
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
2,550.00	0.00	0.00	2,550.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site:	BAE 14 Fed Corn	North Reference:	Grid
Well:	8H	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)
5,100.00	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
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
6,227.21	0.00	0.00	6,227.21	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 10.00 TFO 266.43									
6,250.00	2.28	266.43	6,249.99	-0.03	-0.45	0.45	10.00	10.00	0.00
6,300.00	7.28	266.43	6,299.80	-0.29	-4.61	4.62	10.00	10.00	0.00
6,350.00	12.28	266.43	6,349.06	-0.82	-13.08	13.11	10.00	10.00	0.00
6,400.00	17.28	266.43	6,397.39	-1.61	-25.81	25.86	10.00	10.00	0.00
6,450.00	22.28	266.43	6,444.43	-2.66	-42.69	42.77	10.00	10.00	0.00
6,500.00	27.28	266.43	6,489.81	-3.97	-63.60	63.72	10.00	10.00	0.00
6,550.00	32.28	266.43	6,533.19	-5.51	-88.37	88.55	10.00	10.00	0.00
6,600.00	37.28	266.43	6,574.25	-7.29	-116.83	117.06	10.00	10.00	0.00
6,650.00	42.28	266.43	6,612.66	-9.28	-148.75	149.04	10.00	10.00	0.00
6,700.00	47.28	266.43	6,648.14	-11.47	-183.89	184.25	10.00	10.00	0.00
6,750.00	52.28	266.43	6,680.42	-13.85	-221.98	222.41	10.00	10.00	0.00
6,800.00	57.28	266.43	6,709.25	-16.39	-262.74	263.25	10.00	10.00	0.00
6,850.00	62.28	266.43	6,734.41	-19.08	-305.84	306.44	10.00	10.00	0.00
6,900.00	67.28	266.43	6,755.70	-21.89	-350.97	351.66	10.00	10.00	0.00
6,950.00	72.28	266.43	6,772.98	-24.82	-397.79	398.56	10.00	10.00	0.00
7,000.00	77.28	266.43	6,786.10	-27.82	-445.92	446.79	10.00	10.00	0.00
7,050.00	82.28	266.43	6,794.97	-30.88	-495.02	495.98	10.00	10.00	0.00
7,100.00	87.28	266.43	6,799.52	-33.98	-544.70	545.76	10.00	10.00	0.00
7,113.29	88.61	266.43	6,800.00	-34.81	-557.96	559.04	10.00	10.00	0.00
EOC: Start 4199.98 hold at 7113.29 MD									
7,200.00	88.61	266.43	6,802.10	-40.20	-644.47	645.72	0.00	0.00	0.00
7,300.00	88.61	266.43	6,804.53	-46.43	-744.25	745.69	0.00	0.00	0.00
7,400.00	88.61	266.43	6,806.96	-52.65	-844.02	845.66	0.00	0.00	0.00
7,500.00	88.61	266.43	6,809.39	-58.88	-943.80	945.64	0.00	0.00	0.00
7,600.00	88.61	266.43	6,811.82	-65.10	-1,043.58	1,045.61	0.00	0.00	0.00
7,700.00	88.61	266.43	6,814.25	-71.33	-1,143.35	1,145.58	0.00	0.00	0.00
7,800.00	88.61	266.43	6,816.68	-77.55	-1,243.13	1,245.55	0.00	0.00	0.00
7,900.00	88.61	266.43	6,819.11	-83.77	-1,342.91	1,345.52	0.00	0.00	0.00
8,000.00	88.61	266.43	6,821.53	-90.00	-1,442.68	1,445.49	0.00	0.00	0.00
8,100.00	88.61	266.43	6,823.96	-96.22	-1,542.46	1,545.46	0.00	0.00	0.00
8,200.00	88.61	266.43	6,826.39	-102.45	-1,642.24	1,645.43	0.00	0.00	0.00
8,300.00	88.61	266.43	6,828.82	-108.67	-1,742.01	1,745.40	0.00	0.00	0.00
8,400.00	88.61	266.43	6,831.25	-114.90	-1,841.79	1,845.37	0.00	0.00	0.00
8,500.00	88.61	266.43	6,833.68	-121.12	-1,941.57	1,945.34	0.00	0.00	0.00
8,600.00	88.61	266.43	6,836.11	-127.35	-2,041.34	2,045.31	0.00	0.00	0.00
8,700.00	88.61	266.43	6,838.53	-133.57	-2,141.12	2,145.28	0.00	0.00	0.00
8,800.00	88.61	266.43	6,840.96	-139.79	-2,240.90	2,245.25	0.00	0.00	0.00
8,900.00	88.61	266.43	6,843.39	-146.02	-2,340.67	2,345.22	0.00	0.00	0.00
9,000.00	88.61	266.43	6,845.82	-152.24	-2,440.45	2,445.19	0.00	0.00	0.00
9,100.00	88.61	266.43	6,848.25	-158.47	-2,540.23	2,545.16	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	8H	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)	
9,200.00	88.61	266.43	6,850.68	-164.69	-2,640.00	2,645.13	0.00	0.00	0.00	
9,300.00	88.61	266.43	6,853.11	-170.92	-2,739.78	2,745.10	0.00	0.00	0.00	
9,400.00	88.61	266.43	6,855.53	-177.14	-2,839.55	2,845.07	0.00	0.00	0.00	
9,500.00	88.61	266.43	6,857.96	-183.36	-2,939.33	2,945.05	0.00	0.00	0.00	
9,600.00	88.61	266.43	6,860.39	-189.59	-3,039.11	3,045.02	0.00	0.00	0.00	
9,700.00	88.61	266.43	6,862.82	-195.81	-3,138.88	3,144.99	0.00	0.00	0.00	
9,800.00	88.61	266.43	6,865.25	-202.04	-3,238.66	3,244.96	0.00	0.00	0.00	
9,900.00	88.61	266.43	6,867.68	-208.26	-3,338.44	3,344.93	0.00	0.00	0.00	
10,000.00	88.61	266.43	6,870.11	-214.49	-3,438.21	3,444.90	0.00	0.00	0.00	
10,100.00	88.61	266.43	6,872.53	-220.71	-3,537.99	3,544.87	0.00	0.00	0.00	
10,200.00	88.61	266.43	6,874.96	-226.94	-3,637.77	3,644.84	0.00	0.00	0.00	
10,300.00	88.61	266.43	6,877.39	-233.16	-3,737.54	3,744.81	0.00	0.00	0.00	
10,400.00	88.61	266.43	6,879.82	-239.38	-3,837.32	3,844.78	0.00	0.00	0.00	
10,500.00	88.61	266.43	6,882.25	-245.61	-3,937.10	3,944.75	0.00	0.00	0.00	
10,600.00	88.61	266.43	6,884.68	-251.83	-4,036.87	4,044.72	0.00	0.00	0.00	
10,700.00	88.61	266.43	6,887.11	-258.06	-4,136.65	4,144.69	0.00	0.00	0.00	
10,800.00	88.61	266.43	6,889.53	-264.28	-4,236.43	4,244.66	0.00	0.00	0.00	
10,900.00	88.61	266.43	6,891.96	-270.51	-4,336.20	4,344.63	0.00	0.00	0.00	
11,000.00	88.61	266.43	6,894.39	-276.73	-4,435.98	4,444.60	0.00	0.00	0.00	
11,100.00	88.61	266.43	6,896.82	-282.95	-4,535.76	4,544.57	0.00	0.00	0.00	
11,200.00	88.61	266.43	6,899.25	-289.18	-4,635.53	4,644.54	0.00	0.00	0.00	
11,300.00	88.61	266.43	6,901.68	-295.40	-4,735.31	4,744.51	0.00	0.00	0.00	
11,313.27	88.61	266.43	6,902.00	-296.23	-4,748.55	4,757.78	0.00	0.00	0.00	
TD at 11313.27' 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(B-14-FC 8H)	0.00	0.00	0.00	0.00	0.00	666,227.35	726,923.86	32° 49' 48.098 N	103° 43' 44.915 W	
- plan hits target center										
- Point										
PBHL(B-14-FC 8H)	0.00	0.00	6,902.00	-296.23	-4,748.55	665,931.13	722,175.31	32° 49' 45.432 N	103° 44' 40.585 W	
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,100.00	1,100.00	13 3/8"	13-3/8	17-1/2	
2,550.00	2,550.00	9 5/8"	9-5/8	12-1/4	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	8H	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)	
6,227.21	6,227.21	0.00	0.00	KOP: Start DLS 10.00 TFO 266.43
7,113.29	6,800.00	-34.81	-557.96	EOC: Start 4199.98 hold at 7113.29 MD
11,313.27	6,902.00	-296.23	-4,748.55	TD at 11313.27' MD

Anticollision Report

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 8H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	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: BAE 14 Fed Com - 7H - OH - Plan #1													Offset Site Error:
Survey Program: 0-LEAM MWD													Offset Well Error:
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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,182.99	1,182.99	1,183.99	1,182.99	2.53	2.53	179.60	-50.02	0.35	50.02	44.97	5.05	9.895 CC	
1,200.00	1,200.00	1,200.00	1,199.00	2.56	2.56	179.60	-50.02	0.35	50.03	44.90	5.13	9.754 ES	
1,250.00	1,250.00	1,249.90	1,248.90	2.68	2.66	179.57	-50.56	0.38	50.58	45.24	5.34	9.473	
1,300.00	1,300.00	1,298.78	1,297.75	2.79	2.78	179.47	-52.14	0.48	52.20	46.85	5.55	9.410	
1,350.00	1,350.00	1,348.24	1,347.14	2.90	2.85	179.33	-54.63	0.64	54.71	48.96	5.75	9.522	
1,400.00	1,400.00	1,398.17	1,397.01	3.01	2.93	179.20	-57.23	0.80	57.32	51.37	5.94	9.642	
1,450.00	1,450.00	1,448.10	1,446.87	3.13	3.02	179.08	-59.84	0.96	59.93	53.78	6.15	9.746	
1,500.00	1,500.00	1,498.03	1,496.73	3.24	3.11	178.97	-62.44	1.12	62.54	56.19	6.35	9.844	
1,550.00	1,550.00	1,547.96	1,546.60	3.35	3.21	178.87	-65.05	1.29	65.15	58.59	6.56	9.930	
1,600.00	1,600.00	1,597.90	1,596.46	3.46	3.31	178.77	-67.65	1.45	67.76	60.99	6.77	10.011	
1,650.00	1,650.00	1,647.83	1,646.32	3.58	3.40	178.69	-70.26	1.61	70.37	63.39	6.98	10.082	
1,700.00	1,700.00	1,697.76	1,696.19	3.69	3.50	178.60	-72.87	1.78	72.99	65.79	7.19	10.149	
1,750.00	1,750.00	1,747.69	1,746.05	3.80	3.61	178.53	-75.47	1.94	75.80	68.19	7.41	10.208	
1,800.00	1,800.00	1,797.62	1,795.91	3.91	3.71	178.46	-78.08	2.10	78.21	70.59	7.62	10.263	
1,850.00	1,850.00	1,847.55	1,845.78	4.03	3.81	178.39	-80.68	2.26	80.82	72.99	7.84	10.313	
1,900.00	1,900.00	1,897.49	1,895.64	4.14	3.92	178.33	-83.29	2.43	83.44	75.38	8.05	10.360	
1,950.00	1,950.00	1,947.42	1,945.50	4.25	4.02	178.27	-85.89	2.59	86.05	77.78	8.27	10.402	
2,000.00	2,000.00	1,997.35	1,995.37	4.36	4.13	178.22	-88.50	2.75	88.66	80.17	8.49	10.442	
2,050.00	2,050.00	2,047.28	2,045.23	4.48	4.24	178.17	-91.10	2.91	91.27	82.56	8.71	10.477	
2,100.00	2,100.00	2,097.21	2,095.09	4.59	4.35	178.12	-93.71	3.08	93.89	84.95	8.93	10.511	
2,150.00	2,150.00	2,147.14	2,144.96	4.70	4.45	178.07	-96.31	3.24	96.50	87.35	9.15	10.542	
2,200.00	2,200.00	2,198.91	2,196.67	4.81	4.57	178.04	-98.92	3.38	98.73	89.36	9.38	10.527	
2,250.00	2,250.00	2,251.16	2,248.91	4.92	4.68	178.02	-99.79	3.45	99.85	90.25	9.60	10.399	
2,300.00	2,300.00	2,302.25	2,300.00	5.04	4.78	178.02	-99.92	3.46	99.98	90.16	9.82	10.181	
2,350.00	2,350.00	2,352.25	2,350.00	5.15	4.89	178.02	-99.92	3.46	99.98	89.95	10.04	9.961	
2,400.00	2,400.00	2,402.25	2,400.00	5.26	4.99	178.02	-99.92	3.46	99.98	89.73	10.25	9.750	
2,450.00	2,450.00	2,452.25	2,450.00	5.37	5.10	178.02	-99.92	3.46	99.98	89.51	10.47	9.548	
2,500.00	2,500.00	2,502.25	2,500.00	5.49	5.20	178.02	-99.92	3.46	99.98	89.29	10.69	9.353	
2,550.00	2,550.00	2,552.25	2,550.00	5.60	5.31	178.02	-99.92	3.46	99.98	89.08	10.91	9.166	
2,600.00	2,600.00	2,602.25	2,600.00	5.71	5.42	178.02	-99.92	3.46	99.98	88.86	11.13	8.986	
2,650.00	2,650.00	2,652.25	2,650.00	5.82	5.52	178.02	-99.92	3.46	99.98	88.64	11.34	8.813	
2,700.00	2,700.00	2,702.25	2,700.00	5.94	5.63	178.02	-99.92	3.46	99.98	88.42	11.56	8.647	
2,750.00	2,750.00	2,752.25	2,750.00	6.05	5.73	178.02	-99.92	3.46	99.98	88.20	11.78	8.486	
2,800.00	2,800.00	2,802.25	2,800.00	6.16	5.84	178.02	-99.92	3.46	99.98	87.98	12.00	8.331	
2,850.00	2,850.00	2,852.25	2,850.00	6.27	5.95	178.02	-99.92	3.46	99.98	87.76	12.22	8.181	
2,900.00	2,900.00	2,902.25	2,900.00	6.39	6.06	178.02	-99.92	3.46	99.98	87.54	12.44	8.037	
2,950.00	2,950.00	2,952.25	2,950.00	6.50	6.16	178.02	-99.92	3.46	99.98	87.32	12.66	7.897	
3,000.00	3,000.00	3,002.25	3,000.00	6.61	6.27	178.02	-99.92	3.46	99.98	87.10	12.88	7.762	
3,050.00	3,050.00	3,052.25	3,050.00	6.72	6.38	178.02	-99.92	3.46	99.98	86.88	13.10	7.632	
3,100.00	3,100.00	3,102.25	3,100.00	6.84	6.49	178.02	-99.92	3.46	99.98	86.66	13.32	7.505	
3,150.00	3,150.00	3,152.25	3,150.00	6.95	6.59	178.02	-99.92	3.46	99.98	86.44	13.54	7.383	
3,200.00	3,200.00	3,202.25	3,200.00	7.06	6.70	178.02	-99.92	3.46	99.98	86.22	13.76	7.265	
3,250.00	3,250.00	3,252.25	3,250.00	7.17	6.81	178.02	-99.92	3.46	99.98	86.00	13.98	7.150	
3,300.00	3,300.00	3,302.25	3,300.00	7.28	6.92	178.02	-99.92	3.46	99.98	85.78	14.20	7.039	
3,350.00	3,350.00	3,352.25	3,350.00	7.40	7.03	178.02	-99.92	3.46	99.98	85.56	14.43	6.931	
3,400.00	3,400.00	3,402.25	3,400.00	7.51	7.14	178.02	-99.92	3.46	99.98	85.34	14.65	6.827	
3,450.00	3,450.00	3,452.25	3,450.00	7.62	7.25	178.02	-99.92	3.46	99.98	85.12	14.87	6.725	
3,500.00	3,500.00	3,502.25	3,500.00	7.73	7.36	178.02	-99.92	3.46	99.98	84.89	15.09	6.626	
3,550.00	3,550.00	3,552.25	3,550.00	7.85	7.46	178.02	-99.92	3.46	99.98	84.67	15.31	6.530	
3,600.00	3,600.00	3,602.25	3,600.00	7.96	7.57	178.02	-99.92	3.46	99.98	84.45	15.53	6.437	
3,650.00	3,650.00	3,652.25	3,650.00	8.07	7.68	178.02	-99.92	3.46	99.98	84.23	15.75	6.347	
3,700.00	3,700.00	3,702.25	3,700.00	8.18	7.79	178.02	-99.92	3.46	99.98	84.01	15.98	6.259	

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 8H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	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: BAE 14 Fed Com - 7H - 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		Minimum		Separation		Warning					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Factor	Warning		
Depth	Depth	Depth	Depth	(usft)	(usft)	(")	+N/S	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)				(usft)	(usft)	(usft)	(usft)					
3,750.00	3,750.00	3,752.25	3,750.00	8.30	7.90	178.02	-99.92	3.46	99.98	83.79	16.20	6.173			
3,800.00	3,800.00	3,802.25	3,800.00	8.41	8.01	178.02	-99.92	3.46	99.98	83.58	16.42	6.089			
3,850.00	3,850.00	3,852.25	3,850.00	8.52	8.12	178.02	-99.92	3.46	99.98	83.34	16.64	6.008			
3,900.00	3,900.00	3,902.25	3,900.00	8.63	8.23	178.02	-99.92	3.46	99.98	83.12	16.86	5.929			
3,950.00	3,950.00	3,952.25	3,950.00	8.75	8.34	178.02	-99.92	3.46	99.98	82.90	17.09	5.852			
4,000.00	4,000.00	4,002.25	4,000.00	8.86	8.45	178.02	-99.92	3.46	99.98	82.68	17.31	5.777			
4,050.00	4,050.00	4,052.25	4,050.00	8.97	8.56	178.02	-99.92	3.46	99.98	82.45	17.53	5.704			
4,100.00	4,100.00	4,102.25	4,100.00	9.08	8.67	178.02	-99.92	3.46	99.98	82.23	17.75	5.632			
4,150.00	4,150.00	4,152.25	4,150.00	9.20	8.78	178.02	-99.92	3.46	99.98	82.01	17.97	5.563			
4,200.00	4,200.00	4,202.25	4,200.00	9.31	8.89	178.02	-99.92	3.46	99.98	81.79	18.20	5.495			
4,250.00	4,250.00	4,252.25	4,250.00	9.42	9.00	178.02	-99.92	3.46	99.98	81.56	18.42	5.428			
4,300.00	4,300.00	4,302.25	4,300.00	9.53	9.11	178.02	-99.92	3.46	99.98	81.34	18.64	5.363			
4,350.00	4,350.00	4,352.25	4,350.00	9.64	9.22	178.02	-99.92	3.46	99.98	81.12	18.86	5.300			
4,400.00	4,400.00	4,402.25	4,400.00	9.76	9.33	178.02	-99.92	3.46	99.98	80.90	19.09	5.238			
4,450.00	4,450.00	4,452.25	4,450.00	9.87	9.44	178.02	-99.92	3.46	99.98	80.67	19.31	5.178			
4,500.00	4,500.00	4,502.25	4,500.00	9.98	9.55	178.02	-99.92	3.46	99.98	80.45	19.53	5.119			
4,550.00	4,550.00	4,552.25	4,550.00	10.09	9.66	178.02	-99.92	3.46	99.98	80.23	19.76	5.061			
4,600.00	4,600.00	4,602.25	4,600.00	10.21	9.77	178.02	-99.92	3.46	99.98	80.00	19.98	5.005			
4,650.00	4,650.00	4,652.25	4,650.00	10.32	9.88	178.02	-99.92	3.46	99.98	79.78	20.20	4.949			
4,700.00	4,700.00	4,702.25	4,700.00	10.43	9.99	178.02	-99.92	3.46	99.98	79.56	20.42	4.895			
4,750.00	4,750.00	4,752.25	4,750.00	10.54	10.10	178.02	-99.92	3.46	99.98	79.34	20.65	4.842			
4,800.00	4,800.00	4,802.25	4,800.00	10.66	10.21	178.02	-99.92	3.46	99.98	79.11	20.87	4.791			
4,850.00	4,850.00	4,852.25	4,850.00	10.77	10.33	178.02	-99.92	3.46	99.98	78.89	21.09	4.740			
4,900.00	4,900.00	4,902.25	4,900.00	10.88	10.44	178.02	-99.92	3.46	99.98	78.67	21.32	4.690			
4,950.00	4,950.00	4,952.25	4,950.00	10.99	10.55	178.02	-99.92	3.46	99.98	78.44	21.54	4.642			
5,000.00	5,000.00	5,002.25	5,000.00	11.11	10.66	178.02	-99.92	3.46	99.98	78.22	21.76	4.594			
5,050.00	5,050.00	5,052.25	5,050.00	11.22	10.77	178.02	-99.92	3.46	99.98	78.00	21.99	4.548			
5,100.00	5,100.00	5,102.25	5,100.00	11.33	10.88	178.02	-99.92	3.46	99.98	77.77	22.21	4.502			
5,150.00	5,150.00	5,152.25	5,150.00	11.44	10.99	178.02	-99.92	3.46	99.98	77.55	22.43	4.457			
5,200.00	5,200.00	5,202.25	5,200.00	11.56	11.10	178.02	-99.92	3.46	99.98	77.33	22.66	4.413			
5,250.00	5,250.00	5,252.25	5,250.00	11.67	11.21	178.02	-99.92	3.46	99.98	77.10	22.88	4.370			
5,300.00	5,300.00	5,302.25	5,300.00	11.78	11.32	178.02	-99.92	3.46	99.98	76.88	23.10	4.328			
5,350.00	5,350.00	5,352.25	5,350.00	11.89	11.43	178.02	-99.92	3.46	99.98	76.66	23.33	4.286			
5,400.00	5,400.00	5,402.25	5,400.00	12.00	11.54	178.02	-99.92	3.46	99.98	76.43	23.55	4.246			
5,450.00	5,450.00	5,452.25	5,450.00	12.12	11.66	178.02	-99.92	3.46	99.98	76.21	23.77	4.206			
5,500.00	5,500.00	5,501.90	5,499.59	12.23	11.76	179.18	-100.05	1.43	100.06	76.07	23.99	4.171			
5,550.00	5,550.00	5,550.83	5,548.11	12.34	11.86	-177.29	-100.44	-4.76	100.57	76.36	24.20	4.155 SF			
5,600.00	5,600.00	5,598.37	5,594.58	12.45	11.97	-171.72	-101.06	-14.71	102.26	77.85	24.42	4.188			
5,650.00	5,650.00	5,643.97	5,638.23	12.57	12.07	-164.72	-101.87	-27.83	106.26	81.83	24.63	4.314			
5,700.00	5,700.00	5,687.19	5,678.51	12.68	12.17	-157.11	-102.85	-43.42	113.69	88.84	24.85	4.576			
5,750.00	5,750.00	5,727.77	5,715.17	12.79	12.28	-149.68	-103.93	-60.79	125.34	100.27	25.07	5.000			
5,800.00	5,800.00	5,765.58	5,748.13	12.90	12.39	-142.97	-105.08	-79.26	141.47	116.15	25.33	5.586			
5,850.00	5,850.00	5,800.00	5,777.02	13.02	12.51	-137.33	-106.25	-97.93	161.88	136.28	25.60	6.325			
5,900.00	5,900.00	5,832.87	5,803.51	13.13	12.64	-132.48	-107.46	-117.34	186.08	160.19	25.90	7.186			
5,950.00	5,950.00	5,862.55	5,826.44	13.24	12.77	-128.59	-108.63	-136.15	213.55	187.35	26.20	8.150			
6,000.00	6,000.00	5,889.79	5,848.59	13.35	12.91	-125.41	-109.77	-154.43	243.79	217.27	26.52	9.194			
6,050.00	6,050.00	5,914.76	5,864.29	13.47	13.05	-122.80	-110.87	-172.01	276.35	249.51	26.84	10.296			
6,100.00	6,100.00	5,937.66	5,879.83	13.58	13.19	-120.66	-111.92	-188.80	310.88	283.72	27.16	11.445			
6,150.00	6,150.00	5,950.00	5,887.92	13.69	13.27	-119.59	-112.50	-198.10	347.25	319.86	27.39	12.679			
6,200.00	6,200.00	5,977.96	5,905.50	13.80	13.47	-117.38	-113.85	-219.80	384.71	356.91	27.81	13.835			
6,227.21	6,227.21	5,987.80	5,911.43	13.86	13.55	-116.67	-114.34	-227.63	405.72	377.74	27.98	14.501			
6,250.00	6,249.99	6,000.00	5,918.59	13.91	13.64	-21.27	-114.95	-237.49	423.34	396.87	26.67	15.874			

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 8H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	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: BAE 14 Fed Com - 7H - OH - Plan #1													Offset Site Error:
Survey Program: 0-LEAM MWD													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
6,300.00	6,299.80	6,014.12	5,926.62	14.01	13.76	-18.63	-115.68	-249.08	460.81	434.17	26.64	17.299	
6,350.00	6,349.06	6,032.81	5,936.80	14.11	13.93	-16.37	-116.65	-264.72	498.89	470.25	26.44	18.785	
6,400.00	6,397.39	6,050.00	5,945.71	14.22	14.08	-14.64	-117.57	-279.39	530.82	504.76	26.06	20.368	
6,450.00	6,444.43	6,071.36	5,956.16	14.33	14.30	-13.16	-118.73	-297.98	563.08	537.57	25.51	22.072	
6,500.00	6,489.81	6,100.00	5,969.06	14.46	14.60	-11.87	-120.32	-323.50	593.52	568.71	24.80	23.928	
6,550.00	6,533.19	6,100.00	5,969.06	14.60	14.60	-11.18	-120.32	-323.50	621.86	597.98	23.88	26.045	
6,600.00	6,574.25	6,131.38	5,981.72	14.78	14.97	-10.27	-122.11	-352.16	647.81	624.95	22.86	28.338	
6,650.00	6,612.66	6,150.00	5,988.48	14.98	15.19	-9.64	-123.19	-369.47	671.79	650.11	21.68	30.987	
6,700.00	6,648.14	6,172.43	5,995.87	15.23	15.49	-9.10	-124.50	-390.61	693.52	673.13	20.39	34.015	
6,750.00	6,680.42	6,200.00	6,003.80	15.54	15.86	-8.63	-126.15	-416.96	713.05	694.03	19.02	37.496	
6,800.00	6,709.25	6,214.05	6,007.36	15.90	16.07	-8.30	-126.99	-430.53	730.09	712.55	17.54	41.627	
6,850.00	6,734.41	6,235.03	6,012.04	16.34	16.38	-8.01	-128.27	-450.93	744.84	728.79	16.05	46.407	
6,900.00	6,755.70	6,250.00	6,014.93	16.84	16.60	-7.80	-129.18	-465.59	757.23	742.68	14.55	52.027	
6,950.00	6,772.98	6,277.21	6,019.18	17.41	17.03	-7.60	-130.85	-492.41	767.08	753.89	13.19	58.155	
7,000.00	6,786.10	6,300.00	6,021.76	18.05	17.40	-7.47	-132.26	-515.01	774.54	762.56	11.98	64.678	
7,050.00	6,794.97	6,319.59	6,023.25	18.75	17.73	-7.39	-133.48	-534.51	779.51	768.49	11.02	70.719	
7,100.00	6,799.52	6,350.00	6,024.25	19.50	18.24	-7.34	-135.37	-564.84	782.14	771.62	10.52	74.370	
7,113.29	6,800.00	6,350.00	6,024.25	19.70	18.24	-7.34	-135.37	-564.84	782.27	771.86	10.42	75.108	
7,150.00	6,800.89	6,362.05	6,024.19	20.31	18.45	-7.34	-136.12	-576.86	783.18	772.49	10.69	73.253	
7,200.00	6,802.10	6,400.41	6,023.12	21.13	19.13	-7.32	-138.51	-615.13	785.71	774.52	11.19	70.187	
7,250.00	6,803.32	6,450.34	6,021.63	22.02	20.06	-7.29	-141.62	-664.94	788.39	776.59	11.80	66.811	
7,300.00	6,804.53	6,500.26	6,020.15	22.91	21.00	-7.27	-144.72	-714.75	791.07	778.66	12.41	63.764	
7,350.00	6,805.75	6,550.19	6,018.67	23.87	21.99	-7.24	-147.83	-764.56	793.75	780.70	13.05	60.836	
7,400.00	6,806.96	6,600.12	6,017.18	24.82	22.98	-7.22	-150.94	-814.37	798.42	782.73	13.69	58.182	
7,450.00	6,808.18	6,650.04	6,015.70	25.83	24.02	-7.19	-154.04	-864.17	799.10	784.75	14.36	55.665	
7,500.00	6,809.39	6,699.97	6,014.22	26.83	25.06	-7.17	-157.15	-913.98	801.78	786.76	15.02	53.372	
7,550.00	6,810.60	6,749.90	6,012.73	27.87	26.14	-7.15	-160.26	-963.79	804.46	788.75	15.71	51.211	
7,600.00	6,811.82	6,799.83	6,011.25	28.91	27.21	-7.12	-163.37	-1,013.60	807.14	790.74	16.39	49.231	
7,650.00	6,813.03	6,849.75	6,009.76	29.98	28.31	-7.10	-166.47	-1,063.41	809.81	792.72	17.10	47.369	
7,700.00	6,814.25	6,899.68	6,008.28	31.05	29.41	-7.08	-169.58	-1,113.21	812.49	794.70	17.80	45.655	
7,750.00	6,815.46	6,949.61	6,006.80	32.15	30.53	-7.05	-172.69	-1,163.02	815.17	796.66	18.51	44.044	
7,800.00	6,816.68	6,999.53	6,005.31	33.24	31.66	-7.03	-175.79	-1,212.83	817.85	798.63	19.22	42.553	
7,850.00	6,817.89	7,049.46	6,003.83	34.36	32.80	-7.01	-178.90	-1,262.64	820.53	800.59	19.94	41.150	
7,900.00	6,819.11	7,099.39	6,002.35	35.48	33.94	-6.98	-182.01	-1,312.45	823.21	802.55	20.66	39.845	
7,950.00	6,820.32	7,149.31	6,000.88	36.61	35.09	-6.96	-185.11	-1,362.26	825.89	804.50	21.39	38.616	
8,000.00	6,821.53	7,199.24	5,999.38	37.74	36.24	-6.94	-188.22	-1,412.06	828.57	806.45	22.11	37.469	
8,050.00	6,822.75	7,249.17	5,997.89	38.89	37.41	-6.92	-191.33	-1,461.87	831.25	808.40	22.85	36.385	
8,100.00	6,823.96	7,299.10	5,996.41	40.03	38.57	-6.89	-194.44	-1,511.68	833.93	810.35	23.58	35.370	
8,150.00	6,825.18	7,349.02	5,994.93	41.19	39.75	-6.87	-197.54	-1,561.49	836.61	812.29	24.31	34.409	
8,200.00	6,826.39	7,398.95	5,993.44	42.35	40.92	-6.85	-200.65	-1,611.30	839.29	814.24	25.05	33.505	
8,250.00	6,827.61	7,448.88	5,991.96	43.51	42.10	-6.83	-203.76	-1,661.10	841.97	816.18	25.79	32.648	
8,300.00	6,828.82	7,498.80	5,990.47	44.68	43.29	-6.80	-206.86	-1,710.91	844.65	818.12	26.53	31.840	
8,350.00	6,830.03	7,548.73	5,988.99	45.86	44.48	-6.78	-209.97	-1,760.72	847.33	820.06	27.27	31.072	
8,400.00	6,831.25	7,598.66	5,987.51	47.03	45.66	-6.76	-213.08	-1,810.53	850.01	822.00	28.01	30.345	
8,450.00	6,832.46	7,648.59	5,986.02	48.21	46.86	-6.74	-216.18	-1,860.34	852.69	823.93	28.76	29.653	
8,500.00	6,833.68	7,698.51	5,984.54	49.40	48.05	-6.72	-219.29	-1,910.15	855.37	825.87	29.50	28.996	
8,550.00	6,834.89	7,748.44	5,983.06	50.59	49.25	-6.70	-222.40	-1,959.95	858.05	827.81	30.25	28.370	
8,600.00	6,836.11	7,798.37	5,981.57	51.77	50.45	-6.68	-225.50	-2,009.76	860.73	829.74	30.99	27.774	
8,650.00	6,837.32	7,848.29	5,980.09	52.97	51.66	-6.66	-228.61	-2,059.57	863.41	831.68	31.74	27.205	
8,700.00	6,838.53	7,898.22	5,978.60	54.16	52.86	-6.64	-231.72	-2,109.38	866.09	833.61	32.48	26.662	
8,750.00	6,839.75	7,948.15	5,977.12	55.36	54.07	-6.61	-234.83	-2,159.19	868.78	835.54	33.23	26.143	
8,800.00	6,840.96	7,998.08	5,975.64	56.56	55.28	-6.59	-237.93	-2,209.00	871.46	837.48	33.98	25.647	

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 BH
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4082' + KB 18' @ 4100.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	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:
BAE 14 Fed Com - 7H - OH - Plan #1													0.00 usft
Survey Program: O-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
8,850.00	6,842.18	8,048.00	5,974.15	57.78	56.49	-6.57	-241.04	-2,258.80	874.14	839.41	34.73	25.171	
8,900.00	6,843.39	8,097.93	5,972.67	58.96	57.70	-6.55	-244.15	-2,308.61	876.82	841.34	35.48	24.716	
8,950.00	6,844.61	8,147.86	5,971.18	60.17	58.91	-6.53	-247.25	-2,358.42	879.50	843.28	36.23	24.278	
9,000.00	6,845.82	8,197.78	5,969.70	61.38	60.13	-6.51	-250.36	-2,408.23	882.18	845.21	36.97	23.859	
9,050.00	6,847.03	8,247.71	5,968.22	62.58	61.34	-6.49	-253.47	-2,458.04	884.87	847.14	37.72	23.456	
9,100.00	6,848.25	8,297.64	5,966.73	63.79	62.56	-6.47	-256.57	-2,507.84	887.55	849.07	38.47	23.069	
9,150.00	6,849.46	8,347.57	5,965.25	65.01	63.78	-6.45	-259.68	-2,557.65	890.23	851.01	39.22	22.696	
9,200.00	6,850.68	8,397.49	5,963.77	66.22	65.00	-6.44	-262.79	-2,607.46	892.91	852.94	39.97	22.338	
9,250.00	6,851.89	8,447.42	5,962.28	67.43	66.22	-6.42	-265.90	-2,657.27	895.60	854.87	40.72	21.992	
9,300.00	6,853.11	8,497.35	5,960.80	68.65	67.44	-6.40	-269.00	-2,707.08	898.28	856.80	41.47	21.659	
9,350.00	6,854.32	8,547.27	5,959.31	69.86	68.66	-6.38	-272.11	-2,756.89	900.96	858.74	42.22	21.338	
9,400.00	6,855.53	8,597.20	5,957.83	71.08	69.88	-6.36	-275.22	-2,806.69	903.64	860.67	42.97	21.028	
9,450.00	6,856.75	8,647.13	5,956.35	72.30	71.11	-6.34	-278.32	-2,856.50	906.33	862.60	43.72	20.728	
9,500.00	6,857.96	8,697.05	5,954.86	73.52	72.33	-6.32	-281.43	-2,906.31	909.01	864.53	44.47	20.439	
9,550.00	6,859.18	8,746.98	5,953.38	74.74	73.55	-6.30	-284.54	-2,956.12	911.69	866.47	45.22	20.159	
9,600.00	6,860.39	8,796.91	5,951.90	75.96	74.78	-6.28	-287.64	-3,005.93	914.37	868.40	45.98	19.888	
9,650.00	6,861.61	8,846.84	5,950.41	77.18	76.01	-6.26	-290.75	-3,055.74	917.06	870.33	46.73	19.627	
9,700.00	6,862.82	8,896.76	5,948.93	78.41	77.23	-6.25	-293.86	-3,105.54	919.74	872.27	47.48	19.373	
9,750.00	6,864.03	8,946.69	5,947.44	79.63	78.46	-6.23	-296.96	-3,155.35	922.42	874.20	48.23	19.127	
9,800.00	6,865.25	8,996.62	5,945.96	80.85	79.69	-6.21	-300.07	-3,205.16	925.11	876.13	48.98	18.889	
9,850.00	6,866.46	9,046.54	5,944.48	82.08	80.92	-6.19	-303.18	-3,254.97	927.79	878.07	49.73	18.658	
9,900.00	6,867.68	9,096.47	5,942.99	83.30	82.15	-6.17	-306.29	-3,304.78	930.47	880.00	50.48	18.434	
9,950.00	6,868.89	9,146.40	5,941.51	84.53	83.38	-6.16	-309.39	-3,354.58	933.16	881.93	51.23	18.217	
10,000.00	6,870.11	9,196.33	5,940.02	85.76	84.61	-6.14	-312.50	-3,404.39	935.84	883.87	51.97	18.006	
10,050.00	6,871.32	9,246.25	5,938.54	86.98	85.84	-6.12	-315.61	-3,454.20	938.53	885.80	52.72	17.801	
10,100.00	6,872.53	9,296.18	5,937.06	88.21	87.07	-6.10	-318.71	-3,504.01	941.21	887.74	53.47	17.601	
10,150.00	6,873.75	9,346.11	5,935.57	89.44	88.30	-6.09	-321.82	-3,553.82	943.89	889.67	54.22	17.408	
10,200.00	6,874.96	9,396.03	5,934.09	90.67	89.53	-6.07	-324.93	-3,603.63	946.58	891.61	54.97	17.219	
10,250.00	6,876.18	9,445.96	5,932.61	91.90	90.76	-6.05	-328.03	-3,653.43	949.26	893.54	55.72	17.036	
10,300.00	6,877.39	9,495.89	5,931.12	93.13	91.99	-6.03	-331.14	-3,703.24	951.95	895.48	56.47	16.858	
10,350.00	6,878.61	9,545.82	5,929.64	94.36	93.23	-6.02	-334.25	-3,753.05	954.63	897.41	57.22	16.684	
10,400.00	6,879.82	9,595.74	5,928.15	95.59	94.46	-6.00	-337.36	-3,802.86	957.32	899.35	57.97	16.515	
10,450.00	6,881.03	9,645.67	5,926.67	96.82	95.69	-5.98	-340.46	-3,852.67	960.00	901.28	58.72	16.350	
10,500.00	6,882.25	9,695.60	5,925.19	98.05	96.93	-5.97	-343.57	-3,902.47	962.69	903.22	59.46	16.189	
10,550.00	6,883.46	9,745.52	5,923.70	99.29	98.16	-5.95	-346.68	-3,952.28	965.37	905.16	60.21	16.033	
10,600.00	6,884.68	9,795.45	5,922.22	100.52	99.40	-5.93	-349.78	-4,002.09	968.05	907.09	60.96	15.880	
10,650.00	6,885.89	9,845.38	5,920.74	101.75	100.63	-5.92	-352.89	-4,051.90	970.74	909.03	61.71	15.731	
10,700.00	6,887.11	9,895.30	5,919.25	102.98	101.87	-5.90	-356.00	-4,101.71	973.42	910.97	62.46	15.586	
10,750.00	6,888.32	9,945.23	5,917.77	104.22	103.10	-5.88	-359.10	-4,151.52	976.11	912.91	63.20	15.444	
10,800.00	6,889.53	9,995.16	5,916.28	105.45	104.34	-5.87	-362.21	-4,201.32	978.79	914.84	63.95	15.305	
10,850.00	6,890.75	10,045.09	5,914.80	106.69	105.57	-5.85	-365.32	-4,251.13	981.48	916.78	64.70	15.170	
10,900.00	6,891.96	10,095.01	5,913.32	107.92	106.81	-5.84	-368.42	-4,300.94	984.17	918.72	65.45	15.038	
10,950.00	6,893.18	10,144.94	5,911.83	109.16	108.04	-5.82	-371.53	-4,350.75	986.85	920.66	66.19	14.909	
11,000.00	6,894.39	10,194.87	5,910.35	110.39	109.28	-5.80	-374.64	-4,400.56	989.54	922.60	66.94	14.782	
11,050.00	6,895.61	10,244.79	5,908.86	111.63	110.52	-5.79	-377.75	-4,450.37	992.22	924.54	67.69	14.659	
11,100.00	6,896.82	10,294.72	5,907.38	112.86	111.75	-5.77	-380.85	-4,500.17	994.91	926.47	68.43	14.538	
11,150.00	6,898.03	10,344.65	5,905.90	114.10	112.99	-5.76	-383.96	-4,549.98	997.59	928.41	69.18	14.420	
11,200.00	6,899.25	10,394.58	5,904.41	115.33	114.23	-5.74	-387.07	-4,599.79	1,000.28	930.35	69.93	14.305	
11,250.00	6,900.46	10,444.50	5,902.93	116.57	115.46	-5.73	-390.17	-4,649.60	1,002.96	932.29	70.67	14.192	
11,300.00	6,901.68	10,494.43	5,901.45	117.81	116.70	-5.71	-393.28	-4,699.41	1,005.65	934.23	71.42	14.081	
11,313.27	6,902.00	10,507.68	5,901.05	118.13	117.03	-5.71	-394.11	-4,712.63	1,006.36	934.75	71.62	14.052	

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

DEVON ENERGY

Project: Lea County, NM (NAD-83)

Site: BAE 14 Fed Com

Well: 7H

Wellbore: OH

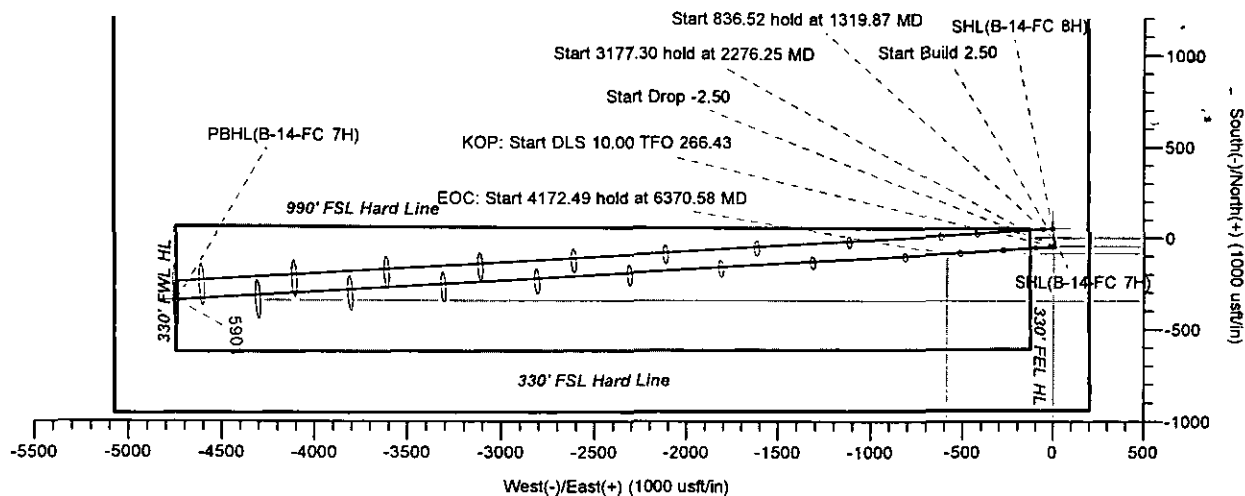
Design: Plan #1

devon



Azimuths to Grid North
True North: -0.33°
Magnetic North: 7.17°

Magnetic Field
Strength: 48793.5nT
Dip Angle: 60.68°
Date: 02/07/2013
Model: IGRF2010



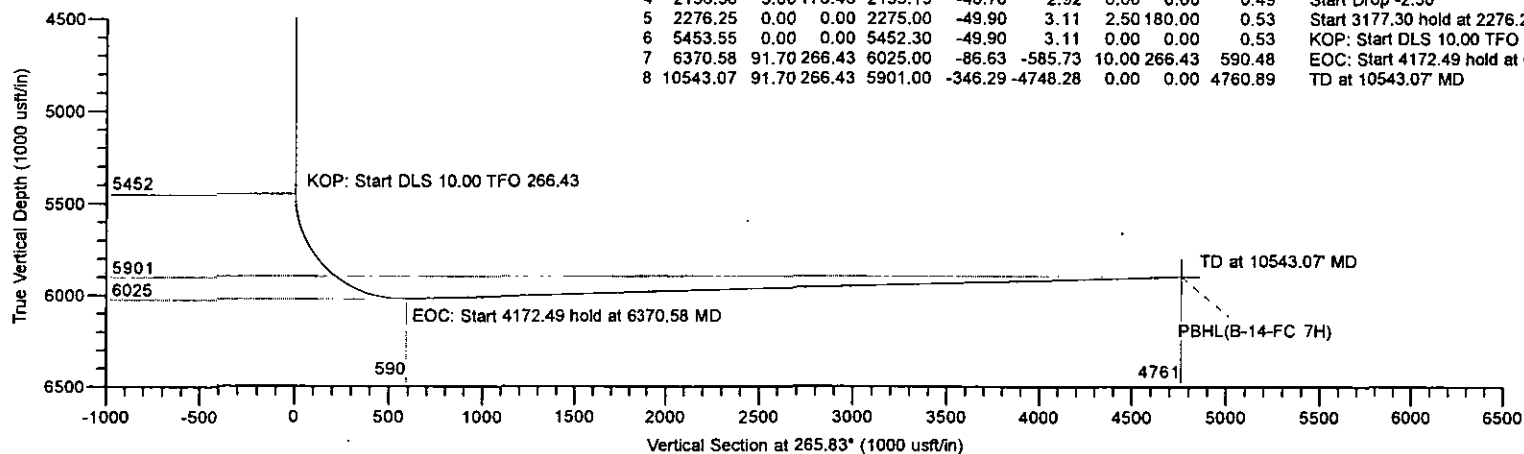
Oil Conservation Division
Case No. **7-2**
Exhibit No. **7-2**

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(B-14-FC 7H)	0.00	0.00	0.00	666177.33	726924.2132° 49' 47.603 N	103° 43' 44.914 W	
PBHL(B-14-FC 7H)	5901.00	-346.29	-4748.28	665831.04	722175.9332° 49' 44.442 N	103° 44' 40.584 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	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.50
3	1319.87	3.00	176.43	1319.81	-3.13	0.20	2.50	176.43	0.03	Start 836.52 hold at 1319.87 MD
4	2156.38	3.00	176.43	2155.19	-46.78	2.92	0.00	0.00	0.49	Start Drop -2.50
5	2276.25	0.00	0.00	2275.00	-49.90	3.11	2.50	180.00	0.53	Start 3177.30 hold at 2276.25 MD
6	5453.55	0.00	0.00	5452.30	-49.90	3.11	0.00	0.00	0.53	KOP: Start DLS 10.00 TFO 266.43
7	6370.58	91.70	266.43	6025.00	-86.63	-585.73	10.00	266.43	590.48	EOC: Start 4172.49 hold at 6370.58 MD
8	10543.07	91.70	266.43	5901.00	-346.29	-4748.28	0.00	0.00	4760.89	TD at 10543.07 MD



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

Plan: Plan #1 (7H/OH)
BAE 14 Fed Com
Created By: Tyler Carlson
Date: 19/28, February 07 2013
Approved: _____ Date: _____

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 7H
Company:	DEVON ENERGY	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Lea 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:	BAE 14 Fed Com		
Site Position:	Map	Northings:	668,346.18 usft
From:		Easting:	726,910.45 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 9.064 N
		Longitude:	103° 43' 44.930 W
		Grid Convergence:	0.33 °

Well:	7H		
Well Position	+N/-S	-2,168.85 usft	Northings:
	+E/-W	13.76 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			4,083.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/07/13	7.50
			Dip Angle
			(°)
			60.68
			Field Strength
			(nT)
			48,794

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
			(°)
			265.83

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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,319.87	3.00	176.43	1,319.81	-3.13	0.20	2.50	2.50	0.00	176.43	
2,156.38	3.00	176.43	2,155.19	-46.78	2.92	0.00	0.00	0.00	0.00	
2,276.25	0.00	0.00	2,275.00	-49.90	3.11	2.50	-2.50	0.00	180.00	
5,453.55	0.00	0.00	5,452.30	-49.90	3.11	0.00	0.00	0.00	0.00	
6,370.58	91.70	266.43	6,025.00	-86.63	-585.73	10.00	10.00	-10.20	266.43	
10,543.07	91.70	266.43	5,901.00	-346.29	-4,748.28	0.00	0.00	0.00	0.00	PBHL(B-14-FC 7H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 7H
Company:	DEVON ENERGY	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	7H	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
Start Build 2.50									
1,300.00	2.50	176.43	1,299.97	-2.18	0.14	0.02	2.50	2.50	0.00
1,319.87	3.00	176.43	1,319.81	-3.13	0.20	0.03	2.50	2.50	0.00
Start 836.52 hold at 1319.87 MD									
1,400.00	3.00	176.43	1,399.84	-7.31	0.46	0.08	0.00	0.00	0.00
1,500.00	3.00	176.43	1,499.70	-12.53	0.78	0.13	0.00	0.00	0.00
1,600.00	3.00	176.43	1,599.56	-17.74	1.11	0.19	0.00	0.00	0.00
1,700.00	3.00	176.43	1,699.43	-22.96	1.43	0.24	0.00	0.00	0.00
1,800.00	3.00	176.43	1,799.29	-28.18	1.76	0.30	0.00	0.00	0.00
1,900.00	3.00	176.43	1,899.15	-33.40	2.08	0.35	0.00	0.00	0.00
2,000.00	3.00	176.43	1,999.02	-38.62	2.41	0.41	0.00	0.00	0.00
2,100.00	3.00	176.43	2,098.88	-43.83	2.73	0.46	0.00	0.00	0.00
2,156.38	3.00	176.43	2,155.19	-46.78	2.92	0.49	0.00	0.00	0.00
Start Drop -2.50									
2,200.00	1.91	176.43	2,198.76	-48.64	3.03	0.51	2.50	-2.50	0.00
2,276.25	0.00	0.00	2,275.00	-49.90	3.11	0.53	2.50	-2.50	0.00
Start 3177.30 hold at 2276.25 MD									
2,300.00	0.00	0.00	2,298.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,400.00	0.00	0.00	2,398.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,500.00	0.00	0.00	2,498.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,600.00	0.00	0.00	2,598.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,700.00	0.00	0.00	2,698.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,800.00	0.00	0.00	2,798.75	-49.90	3.11	0.53	0.00	0.00	0.00
2,900.00	0.00	0.00	2,898.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,000.00	0.00	0.00	2,998.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,100.00	0.00	0.00	3,098.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,200.00	0.00	0.00	3,198.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,300.00	0.00	0.00	3,298.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,400.00	0.00	0.00	3,398.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,500.00	0.00	0.00	3,498.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,600.00	0.00	0.00	3,598.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,700.00	0.00	0.00	3,698.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,800.00	0.00	0.00	3,798.75	-49.90	3.11	0.53	0.00	0.00	0.00
3,900.00	0.00	0.00	3,898.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,000.00	0.00	0.00	3,998.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,100.00	0.00	0.00	4,098.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,200.00	0.00	0.00	4,198.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,300.00	0.00	0.00	4,298.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,400.00	0.00	0.00	4,398.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,500.00	0.00	0.00	4,498.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,600.00	0.00	0.00	4,598.75	-49.90	3.11	0.53	0.00	0.00	0.00

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 7H
Company:	DEVON ENERGY	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	7H	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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
4,700.00	0.00	0.00	4,698.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,800.00	0.00	0.00	4,798.75	-49.90	3.11	0.53	0.00	0.00	0.00
4,900.00	0.00	0.00	4,898.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,000.00	0.00	0.00	4,998.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,100.00	0.00	0.00	5,098.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,200.00	0.00	0.00	5,198.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,300.00	0.00	0.00	5,298.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,400.00	0.00	0.00	5,398.75	-49.90	3.11	0.53	0.00	0.00	0.00
5,453.55	0.00	0.00	5,452.30	-49.90	3.11	0.53	0.00	0.00	0.00
KOP: Start DLS 10.00 TFO 266.43									
5,500.00	4.64	266.43	5,498.70	-50.02	1.23	2.41	10.00	10.00	0.00
5,550.00	9.64	266.43	5,548.29	-50.41	-4.97	8.62	10.00	10.00	0.00
5,600.00	14.64	266.43	5,597.16	-51.06	-15.47	19.14	10.00	10.00	0.00
5,650.00	19.64	266.43	5,644.92	-51.98	-30.17	33.87	10.00	10.00	0.00
5,700.00	24.64	266.43	5,691.22	-53.15	-48.98	52.71	10.00	10.00	0.00
5,750.00	29.64	266.43	5,735.70	-54.57	-71.74	75.52	10.00	10.00	0.00
5,800.00	34.64	266.43	5,778.02	-56.23	-98.28	102.11	10.00	10.00	0.00
5,850.00	39.64	266.43	5,817.86	-58.11	-128.40	132.29	10.00	10.00	0.00
5,900.00	44.64	266.43	5,854.92	-60.19	-161.88	165.83	10.00	10.00	0.00
5,950.00	49.64	266.43	5,888.92	-62.48	-198.45	202.47	10.00	10.00	0.00
6,000.00	54.64	266.43	5,919.59	-64.93	-237.84	241.93	10.00	10.00	0.00
6,050.00	59.64	266.43	5,946.71	-67.55	-279.74	283.92	10.00	10.00	0.00
6,100.00	64.64	266.43	5,970.06	-70.30	-323.85	328.11	10.00	10.00	0.00
6,150.00	69.64	266.43	5,989.48	-73.17	-369.82	374.16	10.00	10.00	0.00
6,200.00	74.64	266.43	6,004.80	-76.13	-417.31	421.74	10.00	10.00	0.00
6,250.00	79.64	266.43	6,015.93	-79.16	-465.94	470.47	10.00	10.00	0.00
6,300.00	84.64	266.43	6,022.76	-82.24	-515.36	519.98	10.00	10.00	0.00
6,350.00	89.64	266.43	6,025.25	-85.35	-565.19	569.90	10.00	10.00	0.00
6,370.58	91.70	266.43	6,025.00	-86.63	-585.73	590.48	10.00	10.00	0.00
EOC: Start 4172.49 hold at 6370.58 MD									
6,400.00	91.70	266.43	6,024.13	-88.46	-615.07	619.88	0.00	0.00	0.00
6,500.00	91.70	266.43	6,021.16	-94.69	-714.84	719.83	0.00	0.00	0.00
6,600.00	91.70	266.43	6,018.19	-100.91	-814.60	819.78	0.00	0.00	0.00
6,700.00	91.70	266.43	6,015.21	-107.13	-914.36	919.73	0.00	0.00	0.00
6,800.00	91.70	266.43	6,012.24	-113.36	-1,014.12	1,019.68	0.00	0.00	0.00
6,900.00	91.70	266.43	6,009.27	-119.58	-1,113.88	1,119.63	0.00	0.00	0.00
7,000.00	91.70	266.43	6,006.30	-125.80	-1,213.65	1,219.58	0.00	0.00	0.00
7,100.00	91.70	266.43	6,003.33	-132.03	-1,313.41	1,319.53	0.00	0.00	0.00
7,200.00	91.70	266.43	6,000.35	-138.25	-1,413.17	1,419.48	0.00	0.00	0.00
7,300.00	91.70	266.43	5,997.38	-144.47	-1,512.93	1,519.43	0.00	0.00	0.00
7,400.00	91.70	266.43	5,994.41	-150.69	-1,612.69	1,619.38	0.00	0.00	0.00
7,500.00	91.70	266.43	5,991.44	-156.92	-1,712.46	1,719.33	0.00	0.00	0.00
7,600.00	91.70	266.43	5,988.47	-163.14	-1,812.22	1,819.28	0.00	0.00	0.00
7,700.00	91.70	266.43	5,985.50	-169.36	-1,911.98	1,919.23	0.00	0.00	0.00
7,800.00	91.70	266.43	5,982.52	-175.59	-2,011.74	2,019.18	0.00	0.00	0.00
7,900.00	91.70	266.43	5,979.55	-181.81	-2,111.50	2,119.13	0.00	0.00	0.00
8,000.00	91.70	266.43	5,976.58	-188.03	-2,211.27	2,219.09	0.00	0.00	0.00
8,100.00	91.70	266.43	5,973.61	-194.26	-2,311.03	2,319.04	0.00	0.00	0.00
8,200.00	91.70	266.43	5,970.64	-200.48	-2,410.79	2,418.99	0.00	0.00	0.00
8,300.00	91.70	266.43	5,967.66	-206.70	-2,510.55	2,518.94	0.00	0.00	0.00
8,400.00	91.70	266.43	5,964.69	-212.92	-2,610.31	2,618.89	0.00	0.00	0.00
8,500.00	91.70	266.43	5,961.72	-219.15	-2,710.08	2,718.84	0.00	0.00	0.00
8,600.00	91.70	266.43	5,958.75	-225.37	-2,809.84	2,818.79	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 7H
Company:	DEVON ENERGY	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site:	BAE 14 Fed Com	North Reference:	Grid
Well:	7H	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)	
8,700.00	91.70	266.43	5,955.78	-231.59	-2,909.60	2,918.74	0.00	0.00	0.00	
8,800.00	91.70	266.43	5,952.80	-237.82	-3,009.36	3,018.69	0.00	0.00	0.00	
8,900.00	91.70	266.43	5,949.83	-244.04	-3,109.12	3,118.64	0.00	0.00	0.00	
9,000.00	91.70	266.43	5,946.86	-250.26	-3,208.88	3,218.59	0.00	0.00	0.00	
9,100.00	91.70	266.43	5,943.89	-256.49	-3,308.65	3,318.54	0.00	0.00	0.00	
9,200.00	91.70	266.43	5,940.92	-262.71	-3,408.41	3,418.49	0.00	0.00	0.00	
9,300.00	91.70	266.43	5,937.94	-268.93	-3,508.17	3,518.44	0.00	0.00	0.00	
9,400.00	91.70	266.43	5,934.97	-275.15	-3,607.93	3,618.39	0.00	0.00	0.00	
9,500.00	91.70	266.43	5,932.00	-281.38	-3,707.69	3,718.34	0.00	0.00	0.00	
9,600.00	91.70	266.43	5,929.03	-287.60	-3,807.46	3,818.29	0.00	0.00	0.00	
9,700.00	91.70	266.43	5,926.06	-293.82	-3,907.22	3,918.24	0.00	0.00	0.00	
9,800.00	91.70	266.43	5,923.08	-300.05	-4,006.98	4,018.19	0.00	0.00	0.00	
9,900.00	91.70	266.43	5,920.11	-306.27	-4,106.74	4,118.14	0.00	0.00	0.00	
10,000.00	91.70	266.43	5,917.14	-312.49	-4,206.50	4,218.09	0.00	0.00	0.00	
10,100.00	91.70	266.43	5,914.17	-318.72	-4,306.27	4,318.04	0.00	0.00	0.00	
10,200.00	91.70	266.43	5,911.20	-324.94	-4,406.03	4,417.99	0.00	0.00	0.00	
10,300.00	91.70	266.43	5,908.22	-331.16	-4,505.79	4,517.94	0.00	0.00	0.00	
10,400.00	91.70	266.43	5,905.25	-337.38	-4,605.55	4,617.89	0.00	0.00	0.00	
10,500.00	91.70	266.43	5,902.28	-343.61	-4,705.31	4,717.84	0.00	0.00	0.00	
10,543.07	91.70	266.43	5,901.00	-346.29	-4,748.28	4,760.89	0.00	0.00	0.00	
TD at 10543.07' 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(B-14-FC 7H)	0.00	0.00	0.00	0.00	0.00	666,177.33	726,924.21	32° 49' 47.603 N	103° 43' 44.914 W	
- plan hits target center										
- Point										
PBHL(B-14-FC 7H)	0.00	0.00	5,901.00	-346.29	-4,748.28	665,831.05	722,175.92	32° 49' 44.442 N	103° 44' 40.584 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,200.00	1,200.00	0.00	0.00	Start Build 2.50	
1,319.87	1,319.81	-3.13	0.20	Start 836.52 hold at 1319.87 MD	
2,156.38	2,155.19	-46.78	2.92	Start Drop -2.50	
2,276.25	2,275.00	-49.90	3.11	Start 3177.30 hold at 2276.25 MD	
5,453.55	5,452.30	-49.90	3.11	KOP: Start DLS 10.00 TFO 266.43	
6,370.58	6,025.00	-86.63	-585.73	EOC: Start 4172.49 hold at 6370.58 MD	
10,543.07	5,901.00	-346.29	-4,748.28	TD at 10543.07' MD	

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	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:	MD + Stations Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	0.00 to 10,543.07usft	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 02/07/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	10,543.07	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						
BAE 14 Fed Com						
8H - OH - Plan #1	1,200.00	1,199.00	50.02	44.89	9.757	CC, ES
8H - OH - Plan #1	5,550.00	5,547.29	100.53	76.35	4.158	SF

Offset Design: BAE 14 Fed Com - 8H - OH - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: D-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)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.00	0.00	-0.40	50.02	-0.35	50.03				
50.00	50.00	49.00	50.00	0.04	0.05	-0.40	50.02	-0.35	50.02	49.94	0.08	616.646	
100.00	100.00	99.00	100.00	0.09	0.09	-0.40	50.02	-0.35	50.02	49.84	0.18	272.763	
150.00	150.00	149.00	150.00	0.20	0.20	-0.40	50.02	-0.35	50.02	49.61	0.41	122.955	
200.00	200.00	199.00	200.00	0.32	0.31	-0.40	50.02	-0.35	50.02	49.39	0.63	79.199	
250.00	250.00	249.00	250.00	0.43	0.43	-0.40	50.02	-0.35	50.02	49.16	0.86	58.412	
300.00	300.00	299.00	300.00	0.54	0.54	-0.40	50.02	-0.35	50.02	48.94	1.08	46.268	
350.00	350.00	349.00	350.00	0.65	0.65	-0.40	50.02	-0.35	50.02	48.72	1.31	38.304	
400.00	400.00	399.00	400.00	0.77	0.76	-0.40	50.02	-0.35	50.02	48.49	1.53	32.680	
450.00	450.00	449.00	450.00	0.88	0.88	-0.40	50.02	-0.35	50.02	48.27	1.76	28.495	
500.00	500.00	499.00	500.00	0.99	0.99	-0.40	50.02	-0.35	50.02	48.04	1.98	25.261	
550.00	550.00	549.00	550.00	1.10	1.10	-0.40	50.02	-0.35	50.02	47.82	2.20	22.686	
600.00	600.00	599.00	600.00	1.22	1.21	-0.40	50.02	-0.35	50.02	47.59	2.43	20.587	
650.00	650.00	649.00	650.00	1.33	1.33	-0.40	50.02	-0.35	50.02	47.37	2.65	18.844	
700.00	700.00	699.00	700.00	1.44	1.44	-0.40	50.02	-0.35	50.02	47.14	2.88	17.373	
750.00	750.00	749.00	750.00	1.55	1.55	-0.40	50.02	-0.35	50.02	46.92	3.10	16.115	
800.00	800.00	799.00	800.00	1.67	1.66	-0.40	50.02	-0.35	50.02	46.69	3.33	15.027	
850.00	850.00	849.00	850.00	1.78	1.78	-0.40	50.02	-0.35	50.02	46.47	3.55	14.076	
900.00	900.00	899.00	900.00	1.89	1.89	-0.40	50.02	-0.35	50.02	46.24	3.78	13.239	
950.00	950.00	949.00	950.00	2.00	2.00	-0.40	50.02	-0.35	50.02	46.02	4.00	12.496	
1,000.00	1,000.00	999.00	1,000.00	2.12	2.11	-0.40	50.02	-0.35	50.02	45.79	4.23	11.831	
1,050.00	1,050.00	1,049.00	1,050.00	2.23	2.23	-0.40	50.02	-0.35	50.02	45.57	4.45	11.234	
1,100.00	1,100.00	1,099.00	1,100.00	2.34	2.34	-0.40	50.02	-0.35	50.02	45.34	4.68	10.694	
1,150.00	1,150.00	1,149.00	1,150.00	2.45	2.45	-0.40	50.02	-0.35	50.02	45.12	4.90	10.204	
1,200.00	1,200.00	1,199.00	1,200.00	2.56	2.56	-0.40	50.02	-0.35	50.02	44.89	5.13	9.757	CC, ES

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 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	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 BAE 14 Fed Com - 8H - OH - Plan #1													Offset Site Error:
Survey Program: D-LEAM MWD													Offset Well Error:
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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,250.00	1,250.00	1,249.00	1,250.00	2.66	2.67	-176.86	50.02	-0.35	50.57	45.23	5.34	9.474	
1,300.00	1,299.97	1,298.97	1,299.97	2.76	2.79	-176.96	50.02	-0.35	52.20	46.65	5.55	9.413	
1,319.87	1,319.81	1,318.81	1,319.81	2.80	2.83	-177.01	50.02	-0.35	53.15	47.53	5.62	9.453	
1,350.00	1,349.90	1,348.90	1,349.90	2.85	2.90	-177.10	50.02	-0.35	54.72	48.98	5.74	9.529	
1,400.00	1,399.84	1,398.84	1,399.84	2.94	3.01	-177.23	50.02	-0.35	57.33	51.39	5.94	9.649	
1,450.00	1,449.77	1,448.77	1,449.77	3.03	3.12	-177.35	50.02	-0.35	59.95	53.80	6.14	9.756	
1,500.00	1,499.70	1,498.70	1,499.70	3.12	3.24	-177.48	50.02	-0.35	62.56	56.21	6.35	9.857	
1,550.00	1,549.63	1,548.63	1,549.63	3.21	3.35	-177.57	50.02	-0.35	65.17	58.62	6.55	9.946	
1,600.00	1,599.56	1,598.56	1,599.56	3.31	3.46	-177.66	50.02	-0.35	67.78	61.02	6.75	10.031	
1,650.00	1,649.49	1,648.49	1,649.49	3.41	3.57	-177.75	50.02	-0.35	70.39	63.43	6.96	10.107	
1,700.00	1,699.43	1,698.43	1,699.43	3.51	3.68	-177.83	50.02	-0.35	73.00	65.83	7.17	10.178	
1,750.00	1,749.36	1,748.36	1,749.36	3.61	3.80	-177.90	50.02	-0.35	75.62	68.23	7.38	10.243	
1,800.00	1,799.29	1,798.29	1,799.29	3.71	3.91	-177.97	50.02	-0.35	78.23	70.64	7.59	10.304	
1,850.00	1,849.22	1,848.22	1,849.22	3.82	4.02	-178.04	50.02	-0.35	80.84	73.04	7.80	10.359	
1,900.00	1,899.15	1,898.15	1,899.15	3.92	4.13	-178.10	50.02	-0.35	83.45	75.44	8.02	10.412	
1,950.00	1,849.08	1,848.08	1,849.08	4.03	4.25	-178.16	50.02	-0.35	86.07	77.84	8.23	10.460	
2,000.00	1,999.02	1,998.02	1,999.02	4.13	4.36	-178.21	50.02	-0.35	88.68	80.24	8.44	10.505	
2,050.00	2,048.95	2,047.95	2,048.95	4.24	4.47	-178.26	50.02	-0.35	91.29	82.64	8.66	10.547	
2,100.00	2,098.88	2,097.88	2,098.88	4.35	4.58	-178.31	50.02	-0.35	93.90	85.03	8.87	10.587	
2,150.00	2,148.81	2,147.81	2,148.81	4.46	4.69	-178.36	50.02	-0.35	96.52	87.43	9.09	10.623	
2,156.38	2,155.19	2,154.19	2,155.19	4.47	4.71	-178.36	50.02	-0.35	96.85	87.74	9.11	10.628	
2,200.00	2,198.76	2,197.76	2,198.76	4.57	4.81	-178.39	50.02	-0.35	98.72	89.41	9.31	10.606	
2,250.00	2,248.75	2,247.75	2,248.75	4.68	4.92	-178.41	50.02	-0.35	99.83	90.31	9.53	10.480	
2,276.26	2,275.00	2,274.00	2,275.00	4.73	4.98	-1.98	50.02	-0.35	99.98	90.27	9.71	10.299	
2,300.00	2,298.75	2,297.75	2,298.75	4.78	5.03	-1.98	50.02	-0.35	99.98	90.17	9.81	10.191	
2,350.00	2,348.75	2,347.75	2,348.75	4.88	5.14	-1.98	50.02	-0.35	99.98	89.96	10.03	9.971	
2,400.00	2,398.75	2,397.75	2,398.75	4.99	5.26	-1.98	50.02	-0.35	99.98	89.74	10.24	9.760	
2,450.00	2,448.75	2,447.75	2,448.75	5.09	5.37	-1.98	50.02	-0.35	99.98	89.52	10.46	9.557	
2,500.00	2,498.75	2,497.75	2,498.75	5.20	5.48	-1.98	50.02	-0.35	99.98	89.30	10.68	9.362	
2,550.00	2,548.75	2,547.75	2,548.75	5.30	5.59	-1.98	50.02	-0.35	99.98	89.09	10.90	9.175	
2,600.00	2,598.75	2,597.75	2,598.75	5.41	5.71	-1.98	50.02	-0.35	99.98	88.87	11.12	8.994	
2,650.00	2,648.75	2,647.75	2,648.75	5.52	5.82	-1.98	50.02	-0.35	99.98	88.65	11.33	8.821	
2,700.00	2,698.75	2,697.75	2,698.75	5.62	5.93	-1.98	50.02	-0.35	99.98	88.43	11.55	8.654	
2,750.00	2,748.75	2,747.75	2,748.75	5.73	6.04	-1.98	50.02	-0.35	99.98	88.21	11.77	8.493	
2,800.00	2,798.75	2,797.75	2,798.75	5.84	6.16	-1.98	50.02	-0.35	99.98	87.99	11.99	8.338	
2,850.00	2,848.75	2,847.75	2,848.75	5.94	6.27	-1.98	50.02	-0.35	99.98	87.77	12.21	8.188	
2,900.00	2,898.75	2,897.75	2,898.75	6.05	6.38	-1.98	50.02	-0.35	99.98	87.55	12.43	8.043	
2,950.00	2,948.75	2,947.75	2,948.75	6.16	6.49	-1.98	50.02	-0.35	99.98	87.33	12.65	7.903	
3,000.00	2,998.75	2,997.75	2,998.75	6.27	6.61	-1.98	50.02	-0.35	99.98	87.11	12.87	7.768	
3,050.00	3,048.75	3,047.75	3,048.75	6.37	6.72	-1.98	50.02	-0.35	99.98	86.89	13.09	7.637	
3,100.00	3,098.75	3,097.75	3,098.75	6.48	6.83	-1.98	50.02	-0.35	99.98	86.67	13.31	7.511	
3,150.00	3,148.75	3,147.75	3,148.75	6.59	6.94	-1.98	50.02	-0.35	99.98	86.45	13.53	7.389	
3,200.00	3,198.75	3,197.75	3,198.75	6.70	7.05	-1.98	50.02	-0.35	99.98	86.23	13.75	7.270	
3,250.00	3,248.75	3,247.75	3,248.75	6.81	7.17	-1.98	50.02	-0.35	99.98	86.01	13.97	7.155	
3,300.00	3,298.75	3,297.75	3,298.75	6.92	7.28	-1.98	50.02	-0.35	99.98	85.79	14.19	7.044	
3,350.00	3,348.75	3,347.75	3,348.75	7.02	7.39	-1.98	50.02	-0.35	99.98	85.57	14.42	6.936	
3,400.00	3,398.75	3,397.75	3,398.75	7.13	7.50	-1.98	50.02	-0.35	99.98	85.35	14.64	6.831	
3,450.00	3,448.75	3,447.75	3,448.75	7.24	7.62	-1.98	50.02	-0.35	99.98	85.13	14.86	6.729	
3,500.00	3,498.75	3,497.75	3,498.75	7.35	7.73	-1.98	50.02	-0.35	99.98	84.90	15.08	6.631	
3,550.00	3,548.75	3,547.75	3,548.75	7.46	7.84	-1.98	50.02	-0.35	99.98	84.68	15.30	6.535	
3,600.00	3,598.75	3,597.75	3,598.75	7.57	7.95	-1.98	50.02	-0.35	99.98	84.46	15.52	6.441	
3,650.00	3,648.75	3,647.75	3,648.75	7.68	8.07	-1.98	50.02	-0.35	99.98	84.24	15.74	6.351	

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 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	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 BAE 14 Fed Com - 8H - 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		Minimum Separation		Separation Factor		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)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
3,700.00	3,698.75	3,697.75	3,698.75	7.79	8.18	-1.98	50.02	-0.35	99.98	84.02	15.97	6.263			
3,750.00	3,748.75	3,747.75	3,748.75	7.90	8.29	-1.98	50.02	-0.35	99.98	83.80	16.19	6.177			
3,800.00	3,798.75	3,797.75	3,798.75	8.01	8.40	-1.98	50.02	-0.35	99.98	83.57	16.41	6.093			
3,850.00	3,848.75	3,847.75	3,848.75	8.12	8.52	-1.98	50.02	-0.35	99.98	83.35	16.63	6.012			
3,900.00	3,898.75	3,897.75	3,898.75	8.23	8.63	-1.98	50.02	-0.35	99.98	83.13	16.85	5.933			
3,950.00	3,948.75	3,947.75	3,948.75	8.34	8.74	-1.98	50.02	-0.35	99.98	82.91	17.08	5.855			
4,000.00	3,998.75	3,997.75	3,998.75	8.44	8.85	-1.98	50.02	-0.35	99.98	82.69	17.30	5.780			
4,050.00	4,048.75	4,047.75	4,048.75	8.55	8.97	-1.98	50.02	-0.35	99.98	82.46	17.52	5.707			
4,100.00	4,098.75	4,097.75	4,098.75	8.66	9.08	-1.98	50.02	-0.35	99.98	82.24	17.74	5.635			
4,150.00	4,148.75	4,147.75	4,148.75	8.77	9.19	-1.98	50.02	-0.35	99.98	82.02	17.96	5.566			
4,200.00	4,198.75	4,197.75	4,198.75	8.88	9.30	-1.98	50.02	-0.35	99.98	81.80	18.19	5.498			
4,250.00	4,248.75	4,247.75	4,248.75	8.99	9.41	-1.98	50.02	-0.35	99.98	81.57	18.41	5.431			
4,300.00	4,298.75	4,297.75	4,298.75	9.11	9.53	-1.98	50.02	-0.35	99.98	81.35	18.63	5.366			
4,350.00	4,348.75	4,347.75	4,348.75	9.22	9.64	-1.98	50.02	-0.35	99.98	81.13	18.85	5.303			
4,400.00	4,398.75	4,397.75	4,398.75	9.33	9.75	-1.98	50.02	-0.35	99.98	80.91	19.08	5.241			
4,450.00	4,448.75	4,447.75	4,448.75	9.44	9.86	-1.98	50.02	-0.35	99.98	80.68	19.30	5.181			
4,500.00	4,498.75	4,497.75	4,498.75	9.55	9.98	-1.98	50.02	-0.35	99.98	80.46	19.52	5.121			
4,550.00	4,548.75	4,547.75	4,548.75	9.66	10.09	-1.98	50.02	-0.35	99.98	80.24	19.75	5.064			
4,600.00	4,598.75	4,597.75	4,598.75	9.77	10.20	-1.98	50.02	-0.35	99.98	80.01	19.97	5.007			
4,650.00	4,648.75	4,647.75	4,648.75	9.88	10.31	-1.98	50.02	-0.35	99.98	79.79	20.19	4.952			
4,700.00	4,698.75	4,697.75	4,698.75	9.99	10.43	-1.98	50.02	-0.35	99.98	79.57	20.41	4.898			
4,750.00	4,748.75	4,747.75	4,748.75	10.10	10.54	-1.98	50.02	-0.35	99.98	79.35	20.64	4.845			
4,800.00	4,798.75	4,797.75	4,798.75	10.21	10.65	-1.98	50.02	-0.35	99.98	79.12	20.86	4.793			
4,850.00	4,848.75	4,847.75	4,848.75	10.32	10.76	-1.98	50.02	-0.35	99.98	78.90	21.08	4.742			
4,900.00	4,898.75	4,897.75	4,898.75	10.43	10.88	-1.98	50.02	-0.35	99.98	78.68	21.31	4.693			
4,950.00	4,948.75	4,947.75	4,948.75	10.54	10.99	-1.98	50.02	-0.35	99.98	78.45	21.53	4.644			
5,000.00	4,998.75	4,997.75	4,998.75	10.65	11.10	-1.98	50.02	-0.35	99.98	78.23	21.75	4.596			
5,050.00	5,048.75	5,047.75	5,048.75	10.76	11.21	-1.98	50.02	-0.35	99.98	78.01	21.98	4.550			
5,100.00	5,098.75	5,097.75	5,098.75	10.87	11.33	-1.98	50.02	-0.35	99.98	77.78	22.20	4.504			
5,150.00	5,148.75	5,147.75	5,148.75	10.99	11.44	-1.98	50.02	-0.35	99.98	77.56	22.42	4.459			
5,200.00	5,198.75	5,197.75	5,198.75	11.10	11.55	-1.98	50.02	-0.35	99.98	77.34	22.65	4.415			
5,250.00	5,248.75	5,247.75	5,248.75	11.21	11.66	-1.98	50.02	-0.35	99.98	77.11	22.87	4.372			
5,300.00	5,298.75	5,297.75	5,298.75	11.32	11.77	-1.98	50.02	-0.35	99.98	76.89	23.09	4.330			
5,350.00	5,348.75	5,347.75	5,348.75	11.43	11.89	-1.98	50.02	-0.35	99.98	76.67	23.32	4.288			
5,400.00	5,398.75	5,397.75	5,398.75	11.54	12.00	-1.98	50.02	-0.35	99.98	76.44	23.54	4.248			
5,450.00	5,448.75	5,447.75	5,448.75	11.65	12.11	-1.98	50.02	-0.35	99.98	76.22	23.76	4.208			
5,453.55	5,452.30	5,451.30	5,452.30	11.66	12.12	-1.98	50.02	-0.35	99.98	76.20	23.78	4.205			
5,500.00	5,498.70	5,497.70	5,498.70	11.76	12.22	92.65	50.02	-0.35	100.05	76.09	23.97	4.175			
5,550.00	5,548.29	5,547.29	5,548.29	11.88	12.34	96.12	50.02	-0.35	100.53	76.35	24.18	4.158 SF			
5,600.00	5,597.16	5,596.16	5,597.16	11.97	12.45	101.69	50.02	-0.35	102.21	77.84	24.37	4.194			
5,650.00	5,644.92	5,643.92	5,644.92	12.08	12.55	108.79	50.02	-0.35	106.27	81.79	24.48	4.340			
5,700.00	5,691.22	5,690.22	5,691.22	12.20	12.66	116.55	50.02	-0.35	114.06	89.62	24.44	4.667			
5,750.00	5,735.70	5,734.70	5,735.70	12.34	12.76	124.07	50.02	-0.35	126.63	102.47	24.16	5.242			
5,800.00	5,778.02	5,777.02	5,778.02	12.51	12.85	130.66	50.02	-0.35	144.49	120.86	23.64	6.113			
5,850.00	5,817.86	5,816.86	5,817.86	12.71	12.94	136.03	50.02	-0.35	167.60	144.68	22.92	7.313			
5,903.00	5,854.92	5,853.92	5,854.92	12.95	13.03	140.11	50.02	-0.35	195.55	173.47	22.07	8.859			
5,950.00	5,888.92	5,887.92	5,888.92	13.27	13.10	142.99	50.02	-0.35	227.81	206.63	21.18	10.754			
6,000.00	5,919.59	5,918.59	5,919.59	13.64	13.17	144.73	50.02	-0.35	263.85	243.50	20.35	12.967			
6,050.00	5,946.71	5,945.71	5,946.71	14.08	13.23	145.35	50.02	-0.35	303.12	283.43	19.69	15.397			
6,100.00	5,970.06	5,969.06	5,970.06	14.80	13.28	144.76	50.02	-0.35	345.15	325.77	19.38	17.812			
6,150.00	5,989.48	5,988.48	5,989.48	15.19	13.33	142.65	50.02	-0.35	389.47	369.80	19.67	19.799			
6,200.00	6,004.80	6,003.80	6,004.80	15.88	13.36	138.33	50.02	-0.35	435.62	414.69	20.93	20.812			

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 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	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: BAE 14 Fed Com - 8H - 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							
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
6,250.00	6,015.93	6,014.93	6,015.93	16.80	13.39	130.37	50.02	-0.35	483.18	459.55	23.63	20.450	
6,300.00	6,022.78	6,021.76	6,022.78	17.40	13.40	116.00	50.02	-0.35	531.72	503.79	27.94	19.032	
6,350.00	6,025.25	6,024.25	6,025.25	18.24	13.41	92.03	50.02	-0.35	580.83	549.21	31.62	18.369	
6,370.58	6,025.00	6,024.00	6,025.00	18.59	13.41	80.00	50.02	-0.35	601.12	569.59	31.53	19.067	
6,400.00	6,024.13	6,023.13	6,024.13	19.12	13.41	79.52	50.02	-0.35	630.13	598.14	31.99	19.695	
6,450.00	6,022.64	6,021.64	6,022.64	20.05	13.40	78.70	50.02	-0.35	679.52	646.69	32.83	20.700	
6,500.00	6,021.16	6,020.16	6,021.16	20.99	13.40	77.88	50.02	-0.35	728.99	695.34	33.65	21.664	
6,550.00	6,019.67	6,018.67	6,019.67	21.99	13.40	77.07	50.02	-0.35	778.53	744.01	34.52	22.553	
6,600.00	6,018.19	7,357.23	6,606.92	22.98	24.01	172.77	0.03	-801.70	795.27	782.12	13.15	60.478	
6,650.00	6,016.70	7,407.15	6,808.14	24.02	24.97	172.79	-3.08	-851.51	797.95	784.14	13.81	57.792	
6,700.00	6,015.21	7,457.08	6,809.35	25.06	25.97	172.82	-6.19	-901.33	800.63	786.15	14.48	55.306	
6,750.00	6,013.73	7,507.01	6,810.56	26.14	26.97	172.84	-9.29	-951.14	803.31	788.15	15.16	53.002	
6,800.00	6,012.24	7,556.94	6,811.77	27.21	28.01	172.87	-12.40	-1,000.96	805.99	790.14	15.84	50.869	
6,850.00	6,010.76	7,606.86	6,812.99	28.32	29.06	172.89	-15.51	-1,050.77	808.67	792.12	16.54	49.890	
6,900.00	6,009.27	7,656.79	6,814.20	29.42	30.13	172.91	-18.62	-1,100.59	811.34	794.10	17.24	47.054	
6,950.00	6,007.78	7,706.72	6,815.41	30.54	31.20	172.94	-21.72	-1,150.41	814.02	796.07	17.95	45.346	
7,000.00	6,006.30	7,756.64	6,818.62	31.67	32.29	172.96	-24.83	-1,200.22	816.70	798.04	18.66	43.756	
7,050.00	6,004.81	7,806.57	6,817.84	32.81	33.39	172.98	-27.94	-1,250.04	819.38	800.00	19.38	42.274	
7,100.00	6,003.33	7,856.50	6,819.05	33.96	34.50	173.01	-31.05	-1,299.85	822.06	801.96	20.10	40.889	
7,150.00	6,001.84	7,906.43	6,820.26	35.10	35.62	173.03	-34.15	-1,349.67	824.74	803.91	20.83	39.594	
7,200.00	6,000.35	7,956.35	6,821.47	36.26	36.75	173.05	-37.26	-1,399.48	827.42	805.88	21.56	38.381	
7,250.00	5,998.87	8,006.28	6,822.69	37.43	37.88	173.08	-40.37	-1,449.30	830.10	807.81	22.29	37.243	
7,300.00	5,997.38	8,056.21	6,823.90	38.59	39.03	173.10	-43.48	-1,499.11	832.78	809.76	23.02	36.173	
7,350.00	5,995.90	8,106.13	6,825.11	39.77	40.17	173.12	-46.59	-1,548.93	835.46	811.70	23.76	35.166	
7,400.00	5,994.41	8,156.06	6,826.32	40.95	41.33	173.14	-49.69	-1,598.75	838.14	813.64	24.49	34.217	
7,450.00	5,992.93	8,205.99	6,827.54	42.13	42.49	173.16	-52.80	-1,648.56	840.82	815.58	25.23	33.321	
7,500.00	5,991.44	8,255.92	6,828.75	43.31	43.65	173.19	-55.91	-1,698.38	843.50	817.52	25.97	32.475	
7,550.00	5,989.95	8,305.84	6,829.96	44.51	44.82	173.21	-59.02	-1,748.19	846.18	819.46	26.72	31.674	
7,600.00	5,988.47	8,355.77	6,831.17	45.70	45.99	173.23	-62.12	-1,798.01	848.86	821.40	27.46	30.915	
7,650.00	5,986.98	8,405.70	6,832.39	46.89	47.17	173.25	-65.23	-1,847.82	851.54	823.34	28.20	30.194	
7,700.00	5,985.50	8,455.62	6,833.60	48.09	48.35	173.27	-68.34	-1,897.64	854.22	825.27	28.95	29.510	
7,750.00	5,984.01	8,505.55	6,834.81	49.29	49.53	173.29	-71.45	-1,947.45	856.90	827.21	29.69	28.859	
7,800.00	5,982.52	8,555.48	6,836.02	50.49	50.72	173.31	-74.55	-1,997.27	859.58	829.14	30.44	28.240	
7,850.00	5,981.04	8,605.41	6,837.24	51.70	51.90	173.33	-77.66	-2,047.09	862.26	831.08	31.19	27.649	
7,900.00	5,979.55	8,655.33	6,838.45	52.91	53.10	173.36	-80.77	-2,096.90	864.94	833.01	31.93	27.086	
7,950.00	5,978.07	8,705.26	6,839.66	54.11	54.29	173.38	-83.88	-2,146.72	867.63	834.94	32.68	26.548	
8,000.00	5,976.58	8,755.19	6,840.87	55.32	55.48	173.40	-86.98	-2,196.53	870.31	836.88	33.43	26.034	
8,050.00	5,975.09	8,805.11	6,842.09	56.54	56.68	173.42	-90.09	-2,246.35	872.99	838.81	34.18	25.542	
8,100.00	5,973.61	8,855.04	6,843.30	57.75	57.88	173.44	-93.20	-2,296.16	875.67	840.74	34.93	25.071	
8,150.00	5,972.12	8,904.97	6,844.51	58.97	59.08	173.46	-96.31	-2,345.98	878.35	842.67	35.68	24.620	
8,200.00	5,970.64	8,954.89	6,845.72	60.18	60.29	173.48	-99.42	-2,395.79	881.03	844.61	36.43	24.187	
8,250.00	5,969.15	9,004.82	6,846.94	61.40	61.49	173.50	-102.52	-2,445.61	883.72	846.54	37.18	23.771	
8,300.00	5,967.66	9,054.75	6,848.15	62.62	62.70	173.52	-105.63	-2,495.42	886.40	848.47	37.93	23.371	
8,350.00	5,966.18	9,104.68	6,849.36	63.84	63.91	173.54	-108.74	-2,545.24	889.08	850.40	38.68	22.988	
8,400.00	5,964.69	9,154.60	6,850.57	65.06	65.12	173.56	-111.85	-2,595.06	891.76	852.33	39.43	22.618	
8,450.00	5,963.21	9,204.53	6,851.79	66.28	66.33	173.58	-114.95	-2,644.87	894.44	854.27	40.18	22.262	
8,500.00	5,961.72	9,254.46	6,853.00	67.50	67.54	173.60	-118.06	-2,694.69	897.13	856.20	40.93	21.920	
8,550.00	5,960.23	9,304.38	6,854.21	68.73	68.75	173.61	-121.17	-2,744.50	899.81	858.13	41.68	21.589	
8,600.00	5,958.75	9,354.31	6,855.42	69.95	69.97	173.63	-124.28	-2,794.32	902.49	860.06	42.43	21.271	
8,650.00	5,957.26	9,404.24	6,856.64	71.18	71.18	173.65	-127.38	-2,844.13	905.17	861.99	43.18	20.963	
8,700.00	5,955.78	9,454.17	6,857.85	72.40	72.40	173.67	-130.49	-2,893.95	907.86	863.93	43.93	20.666	
8,750.00	5,954.29	9,504.09	6,859.06	73.63	73.62	173.69	-133.60	-2,943.76	910.54	865.86	44.68	20.379	

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 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Reference Site:	BAE 14 Fed Com	MD Reference:	GE 4083' + KB 18' @ 4101.00usft (McVay 8)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	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:
BAE 14 Fed Com - 8H - OH - Plan #1													0.00 usft
Survey Program: O-LEAM MWD													Offset Well Error:
													0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,800.00	5,952.80	9,554.02	6,860.27	74.86	74.84	173.71	-136.71	-2,993.58	913.22	867.79	45.43	20.101	
8,850.00	5,951.32	9,603.95	6,861.49	76.08	76.06	173.73	-139.81	-3,043.40	915.91	869.72	46.18	19.833	
8,900.00	5,949.83	9,653.87	6,862.70	77.31	77.28	173.75	-142.92	-3,093.21	918.59	871.66	46.93	19.573	
8,950.00	5,948.35	9,703.80	6,863.91	78.54	78.50	173.76	-146.03	-3,143.03	921.27	873.59	47.68	19.321	
9,000.00	5,946.86	9,753.73	6,865.12	79.77	79.72	173.78	-149.14	-3,192.84	923.96	875.52	48.43	19.077	
9,050.00	5,945.37	9,803.66	6,866.34	81.00	80.94	173.80	-152.25	-3,242.66	926.64	877.46	49.18	18.841	
9,100.00	5,943.89	9,853.58	6,867.55	82.23	82.17	173.82	-155.35	-3,292.47	929.32	879.39	49.93	18.611	
9,150.00	5,942.40	9,903.51	6,868.76	83.46	83.39	173.84	-158.46	-3,342.29	932.01	881.32	50.68	18.389	
9,200.00	5,940.92	9,953.44	6,869.98	84.70	84.61	173.85	-161.57	-3,392.10	934.69	883.26	51.43	18.173	
9,250.00	5,939.43	10,003.36	6,871.19	85.93	85.84	173.87	-164.68	-3,441.92	937.37	885.19	52.18	17.963	
9,300.00	5,937.94	10,053.29	6,872.40	87.16	87.07	173.89	-167.78	-3,491.74	940.06	887.13	52.93	17.759	
9,350.00	5,936.46	10,103.22	6,873.61	88.39	88.29	173.91	-170.89	-3,541.55	942.74	889.06	53.68	17.561	
9,400.00	5,934.97	10,153.14	6,874.83	89.63	89.52	173.92	-174.00	-3,591.37	945.43	890.99	54.43	17.389	
9,450.00	5,933.49	10,203.07	6,876.04	90.86	90.75	173.94	-177.11	-3,641.18	948.11	892.93	55.18	17.182	
9,500.00	5,932.00	10,253.00	6,877.25	92.10	91.97	173.96	-180.21	-3,691.00	950.79	894.86	55.93	17.000	
9,550.00	5,930.51	10,302.93	6,878.46	93.33	93.20	173.98	-183.32	-3,740.81	953.48	896.80	56.68	16.822	
9,600.00	5,929.03	10,352.85	6,879.68	94.57	94.43	173.99	-186.43	-3,790.63	956.16	898.74	57.43	16.650	
9,650.00	5,927.54	10,402.78	6,880.89	95.80	95.66	174.01	-189.54	-3,840.44	958.85	900.67	58.18	16.482	
9,700.00	5,926.06	10,452.71	6,882.10	97.04	96.89	174.03	-192.64	-3,890.26	961.53	902.61	58.93	16.318	
9,750.00	5,924.57	10,502.63	6,883.31	98.27	98.12	174.04	-195.75	-3,940.07	964.22	904.54	59.67	16.158	
9,800.00	5,923.08	10,552.56	6,884.53	99.51	99.35	174.06	-198.86	-3,989.89	966.90	906.48	60.42	16.002	
9,850.00	5,921.60	10,602.49	6,885.74	100.75	100.58	174.08	-201.97	-4,039.71	969.59	908.42	61.17	15.851	
9,900.00	5,920.11	10,652.42	6,886.95	101.98	101.81	174.09	-205.08	-4,089.52	972.27	910.35	61.92	15.702	
9,950.00	5,918.63	10,702.34	6,888.16	103.22	103.04	174.11	-208.18	-4,139.34	974.96	912.29	62.67	15.558	
10,000.00	5,917.14	10,752.27	6,889.38	104.46	104.27	174.13	-211.29	-4,189.15	977.64	914.23	63.41	15.417	
10,050.00	5,915.65	10,802.20	6,890.59	105.69	105.51	174.14	-214.40	-4,238.97	980.33	916.17	64.16	15.279	
10,100.00	5,914.17	10,852.12	6,891.80	106.93	106.74	174.16	-217.51	-4,288.78	983.01	918.10	64.91	15.144	
10,150.00	5,912.68	10,902.05	6,893.01	108.17	107.97	174.17	-220.61	-4,338.60	985.70	920.04	65.66	15.013	
10,200.00	5,911.20	10,951.98	6,894.23	109.41	109.20	174.19	-223.72	-4,388.41	988.38	921.98	66.40	14.885	
10,250.00	5,909.71	11,001.91	6,895.44	110.65	110.44	174.20	-226.83	-4,438.23	991.07	923.92	67.15	14.759	
10,300.00	5,908.22	11,051.83	6,896.65	111.88	111.67	174.22	-229.94	-4,488.05	993.75	925.86	67.90	14.636	
10,350.00	5,906.74	11,101.76	6,897.86	113.12	112.91	174.24	-233.04	-4,537.86	996.44	927.80	68.64	14.516	
10,400.00	5,905.25	11,151.69	6,899.08	114.36	114.14	174.25	-236.15	-4,587.68	999.13	929.74	69.39	14.399	
10,450.00	5,903.77	11,201.61	6,900.29	115.60	115.37	174.27	-239.26	-4,637.49	1,001.81	931.68	70.14	14.284	
10,500.00	5,902.28	11,251.54	6,901.50	116.84	116.61	174.28	-242.37	-4,687.31	1,004.50	933.62	70.88	14.171	
10,543.07	5,901.00	11,294.55	6,902.55	117.91	117.67	174.30	-245.04	-4,730.22	1,006.81	935.29	71.53	14.076	