

HOBBS OCD

APR 27 2016

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DEVON ENERGY

Lea County, NM (NAD-83)

Paloma Blanco 19 Fed

2H

OH

Plan #1

Anticollision Report

08 October, 2015

APR 28 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset 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 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/8/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,204.12	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard	

Summary						
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						
Paloma Blanco 19 Fed						
1H - OH - Plan #1	5,100.00	5,101.00	49.99	27.34	2.207	CC, ES
1H - OH - Plan #1	5,200.00	5,200.99	50.75	27.68	2.200	SF
3H - OH - Plan #1	5,100.00	5,099.00	49.94	27.30	2.206	CC
3H - OH - Plan #1	5,200.00	5,197.89	50.29	27.26	2.183	ES, SF

Offset Design Paloma Blanco 19 Fed - 1H - OH - Plan #1												Offset Site Error
Survey Program: 0-LEAM MWD-ADJ												0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning		Offset Well Error
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)	Warning
0.00	0.00	1.00	1.00	0.00	0.00	-90.39	-0.34	-49.99	49.99			
100.00	100.00	101.00	101.00	0.08	0.09	-90.39	-0.34	-49.99	49.99	49.82	0.17	292.650
200.00	200.00	201.00	201.00	0.31	0.31	-90.39	-0.34	-49.99	49.99	49.37	0.62	80.585
300.00	300.00	301.00	301.00	0.53	0.54	-90.39	-0.34	-49.99	49.99	48.92	1.07	46.726
400.00	400.00	401.00	401.00	0.76	0.76	-90.39	-0.34	-49.99	49.99	48.47	1.52	32.902
500.00	500.00	501.00	501.00	0.98	0.99	-90.39	-0.34	-49.99	49.99	48.02	1.97	25.390
600.00	600.00	601.00	601.00	1.21	1.21	-90.39	-0.34	-49.99	49.99	47.57	2.42	20.670
700.00	700.00	701.00	701.00	1.43	1.44	-90.39	-0.34	-49.99	49.99	47.12	2.87	17.431
800.00	800.00	801.00	801.00	1.66	1.66	-90.39	-0.34	-49.99	49.99	46.67	3.32	15.069
900.00	900.00	901.00	901.00	1.88	1.88	-90.39	-0.34	-49.99	49.99	46.22	3.77	13.271
1,000.00	1,000.00	1,001.00	1,001.00	2.11	2.11	-90.39	-0.34	-49.99	49.99	45.77	4.22	11.856
1,100.00	1,100.00	1,101.00	1,101.00	2.33	2.33	-90.39	-0.34	-49.99	49.99	45.33	4.67	10.714
1,200.00	1,200.00	1,201.00	1,201.00	2.56	2.56	-90.39	-0.34	-49.99	49.99	44.88	5.12	9.772
1,300.00	1,300.00	1,301.00	1,301.00	2.78	2.78	-90.39	-0.34	-49.99	49.99	44.43	5.57	8.983
1,400.00	1,400.00	1,401.00	1,401.00	3.01	3.01	-90.39	-0.34	-49.99	49.99	43.98	6.01	8.311
1,500.00	1,500.00	1,501.00	1,501.00	3.23	3.23	-90.39	-0.34	-49.99	49.99	43.53	6.46	7.733
1,600.00	1,600.00	1,601.00	1,601.00	3.46	3.46	-90.39	-0.34	-49.99	49.99	43.08	6.91	7.231
1,700.00	1,700.00	1,701.00	1,701.00	3.68	3.68	-90.39	-0.34	-49.99	49.99	42.63	7.36	6.789
1,800.00	1,800.00	1,801.00	1,801.00	3.91	3.91	-90.39	-0.34	-49.99	49.99	42.18	7.81	6.399
1,900.00	1,900.00	1,901.00	1,901.00	4.13	4.13	-90.39	-0.34	-49.99	49.99	41.73	8.26	6.050
2,000.00	2,000.00	2,001.00	2,001.00	4.35	4.36	-90.39	-0.34	-49.99	49.99	41.28	8.71	5.738
2,100.00	2,100.00	2,101.00	2,101.00	4.58	4.58	-90.39	-0.34	-49.99	49.99	40.83	9.16	5.457
2,200.00	2,200.00	2,201.00	2,201.00	4.80	4.81	-90.39	-0.34	-49.99	49.99	40.38	9.61	5.201

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design Paloma Blanco 19 Fed - 1H - OH - Plan #1													Offset Site Error:
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:
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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,300.00	2,300.00	2,301.00	2,301.00	5.03	5.03	-90.39	-0.34	-49.99	49.99	39.93	10.06	4.969	
2,400.00	2,400.00	2,401.00	2,401.00	5.25	5.26	-90.39	-0.34	-49.99	49.99	39.48	10.51	4.757	
2,500.00	2,500.00	2,501.00	2,501.00	5.48	5.48	-90.39	-0.34	-49.99	49.99	39.03	10.96	4.561	
2,600.00	2,600.00	2,601.00	2,601.00	5.70	5.71	-90.39	-0.34	-49.99	49.99	38.58	11.41	4.382	
2,700.00	2,700.00	2,701.00	2,701.00	5.93	5.93	-90.39	-0.34	-49.99	49.99	38.13	11.86	4.216	
2,800.00	2,800.00	2,801.00	2,801.00	6.15	6.16	-90.39	-0.34	-49.99	49.99	37.68	12.31	4.062	
2,900.00	2,900.00	2,901.00	2,901.00	6.38	6.38	-90.39	-0.34	-49.99	49.99	37.23	12.76	3.919	
3,000.00	3,000.00	3,001.00	3,001.00	6.60	6.60	-90.39	-0.34	-49.99	49.99	36.78	13.21	3.785	
3,100.00	3,100.00	3,101.00	3,101.00	6.83	6.83	-90.39	-0.34	-49.99	49.99	36.33	13.66	3.661	
3,200.00	3,200.00	3,201.00	3,201.00	7.05	7.05	-90.39	-0.34	-49.99	49.99	35.88	14.11	3.544	
3,300.00	3,300.00	3,301.00	3,301.00	7.28	7.28	-90.39	-0.34	-49.99	49.99	35.44	14.56	3.434	
3,400.00	3,400.00	3,401.00	3,401.00	7.50	7.50	-90.39	-0.34	-49.99	49.99	34.99	15.01	3.332	
3,500.00	3,500.00	3,501.00	3,501.00	7.73	7.73	-90.39	-0.34	-49.99	49.99	34.54	15.45	3.235	
3,600.00	3,600.00	3,601.00	3,601.00	7.95	7.95	-90.39	-0.34	-49.99	49.99	34.09	15.90	3.143	
3,700.00	3,700.00	3,701.00	3,701.00	8.18	8.18	-90.39	-0.34	-49.99	49.99	33.64	16.35	3.057	
3,800.00	3,800.00	3,801.00	3,801.00	8.40	8.40	-90.39	-0.34	-49.99	49.99	33.19	16.80	2.975	
3,900.00	3,900.00	3,901.00	3,901.00	8.63	8.63	-90.39	-0.34	-49.99	49.99	32.74	17.25	2.898	
4,000.00	4,000.00	4,001.00	4,001.00	8.85	8.85	-90.39	-0.34	-49.99	49.99	32.29	17.70	2.824	
4,100.00	4,100.00	4,101.00	4,101.00	9.07	9.08	-90.39	-0.34	-49.99	49.99	31.84	18.15	2.754	
4,200.00	4,200.00	4,201.00	4,201.00	9.30	9.30	-90.39	-0.34	-49.99	49.99	31.39	18.60	2.687	
4,300.00	4,300.00	4,301.00	4,301.00	9.52	9.53	-90.39	-0.34	-49.99	49.99	30.94	19.05	2.624	
4,400.00	4,400.00	4,401.00	4,401.00	9.75	9.75	-90.39	-0.34	-49.99	49.99	30.49	19.50	2.564	
4,500.00	4,500.00	4,501.00	4,501.00	9.97	9.98	-90.39	-0.34	-49.99	49.99	30.04	19.95	2.506	
4,600.00	4,600.00	4,601.00	4,601.00	10.20	10.20	-90.39	-0.34	-49.99	49.99	29.59	20.40	2.451	
4,700.00	4,700.00	4,701.00	4,701.00	10.42	10.43	-90.39	-0.34	-49.99	49.99	29.14	20.85	2.398	
4,800.00	4,800.00	4,801.00	4,801.00	10.65	10.65	-90.39	-0.34	-49.99	49.99	28.69	21.30	2.347	
4,900.00	4,900.00	4,901.00	4,901.00	10.87	10.88	-90.39	-0.34	-49.99	49.99	28.24	21.75	2.299	
5,000.00	5,000.00	5,001.00	5,001.00	11.10	11.10	-90.39	-0.34	-49.99	49.99	27.79	22.20	2.252	
5,100.00	5,100.00	5,101.00	5,101.00	11.32	11.32	-90.39	-0.34	-49.99	49.99	27.34	22.65	2.207 CC, ES	
5,200.00	5,199.99	5,200.99	5,200.99	11.52	11.55	125.82	-0.34	-49.99	50.75	27.68	23.07	2.200 SF	
5,300.00	5,299.91	5,300.91	5,300.91	11.69	11.77	129.22	-0.34	-49.99	53.14	29.69	23.45	2.266	
5,400.00	5,399.69	5,400.69	5,400.69	11.87	12.00	134.22	-0.34	-49.99	57.50	33.67	23.83	2.413	
5,500.00	5,499.27	5,500.27	5,500.27	12.05	12.22	140.01	-0.34	-49.99	64.23	40.04	24.19	2.655	
5,600.00	5,598.72	5,599.72	5,599.72	12.23	12.45	145.31	-0.34	-49.99	72.56	47.98	24.58	2.952	
5,700.00	5,698.17	5,699.17	5,699.17	12.42	12.67	149.50	-0.34	-49.99	81.39	56.41	24.98	3.259	
5,800.00	5,797.63	5,798.63	5,798.63	12.61	12.89	152.85	-0.34	-49.99	90.56	65.19	25.37	3.589	
5,900.00	5,897.08	5,898.08	5,898.08	12.81	13.12	155.58	-0.34	-49.99	99.99	74.21	25.78	3.879	
6,000.00	5,996.53	5,997.53	5,997.53	13.01	13.34	157.84	-0.34	-49.99	109.60	83.42	26.18	4.186	
6,100.00	6,095.98	6,096.98	6,096.98	13.21	13.56	159.73	-0.34	-49.99	119.35	92.76	26.59	4.489	
6,200.00	6,195.43	6,196.43	6,196.43	13.42	13.79	161.34	-0.34	-49.99	129.21	102.22	27.00	4.788	
6,300.00	6,294.89	6,295.89	6,295.89	13.63	14.01	162.71	-0.34	-49.99	139.16	111.75	27.41	5.077	
6,400.00	6,394.34	6,395.34	6,395.34	13.84	14.23	163.91	-0.34	-49.99	149.18	121.38	27.82	5.362	
6,500.00	6,493.79	6,494.79	6,494.79	14.06	14.46	164.95	-0.34	-49.99	159.25	131.02	28.24	5.639	
6,600.00	6,593.24	6,594.24	6,594.24	14.28	14.68	165.87	-0.34	-49.99	169.37	140.72	28.66	5.911	
6,700.00	6,692.70	6,693.70	6,693.70	14.50	14.90	166.68	-0.34	-49.99	179.53	150.46	29.07	6.175	
6,800.00	6,792.15	6,793.15	6,793.15	14.73	15.13	167.41	-0.34	-49.99	189.72	160.23	29.49	6.433	
6,900.00	6,891.60	6,892.60	6,892.60	14.96	15.35	168.06	-0.34	-49.99	199.94	170.02	29.91	6.684	
7,000.00	6,991.05	6,992.05	6,992.05	15.19	15.58	168.65	-0.34	-49.99	210.18	179.84	30.34	6.928	
7,100.00	7,090.50	7,091.50	7,091.50	15.42	15.80	169.18	-0.34	-49.99	220.44	189.68	30.76	7.167	
7,200.00	7,189.96	7,190.96	7,190.96	15.65	16.02	169.67	-0.34	-49.99	230.72	199.53	31.18	7.399	
7,300.00	7,289.41	7,290.41	7,290.41	15.89	16.25	170.12	-0.34	-49.99	241.01	209.40	31.61	7.625	
7,400.00	7,388.86	7,389.86	7,389.86	16.13	16.47	170.53	-0.34	-49.99	251.31	219.28	32.03	7.845	

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Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset-TVD Reference:	Offset Datum

Offset Design: Paloma Blanco 19 Fed - 1H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,500.00	7,488.31	7,489.31	7,489.31	18.37	16.69	170.90	-0.34	-49.99	261.63	229.17	32.46	8.060		
7,600.00	7,587.77	7,588.77	7,588.77	16.61	16.92	171.25	-0.34	-49.99	271.96	239.07	32.89	8.269		
7,700.00	7,687.22	7,688.22	7,688.22	16.85	17.14	171.57	-0.34	-49.99	282.30	248.98	33.32	8.473		
7,800.00	7,786.67	7,787.67	7,787.67	17.10	17.36	171.87	-0.34	-49.99	292.64	258.89	33.75	8.671		
7,900.00	7,886.12	7,887.12	7,887.12	17.35	17.59	172.15	-0.34	-49.99	302.99	268.82	34.18	8.865		
8,000.00	7,985.57	7,986.57	7,986.57	17.60	17.81	172.41	-0.34	-49.99	313.35	278.74	34.61	9.054		
8,100.00	8,085.03	8,086.03	8,086.03	17.85	18.03	172.66	-0.34	-49.99	323.72	288.68	35.04	9.238		
8,200.00	8,184.48	8,185.48	8,185.48	18.10	18.26	172.89	-0.34	-49.99	334.09	298.61	35.48	9.418		
8,300.00	8,283.93	8,284.93	8,284.93	18.35	18.48	173.10	-0.34	-49.99	344.47	308.56	35.91	9.593		
8,400.00	8,383.38	8,384.38	8,384.38	18.61	18.70	173.31	-0.34	-49.99	354.85	318.50	36.34	9.764		
8,500.00	8,482.84	8,483.84	8,483.84	18.86	18.93	173.50	-0.34	-49.99	365.23	328.45	36.78	9.931		
8,600.00	8,582.41	8,583.41	8,583.41	19.11	19.15	173.67	-0.34	-49.99	374.32	337.05	37.27	10.043		
8,700.00	8,682.20	8,683.20	8,683.20	19.34	19.38	173.79	-0.34	-49.99	380.82	343.07	37.75	10.088		
8,800.00	8,782.12	8,783.12	8,783.12	19.55	19.60	173.86	-0.34	-49.99	384.73	346.52	38.21	10.070		
8,900.00	8,882.10	8,883.10	8,883.10	19.75	19.83	-41.12	-0.34	-49.99	386.03	347.38	38.65	9.989		
9,000.00	8,982.10	8,983.10	8,983.10	19.95	20.05	-41.12	-0.34	-49.99	386.03	346.95	39.08	9.879		
9,100.00	9,082.10	9,083.10	9,083.10	20.15	20.28	-41.12	-0.34	-49.99	386.03	346.51	39.52	9.769		
9,200.00	9,182.10	9,183.10	9,183.10	20.36	20.50	-41.12	-0.34	-49.99	386.03	346.07	39.95	9.662		
9,300.00	9,282.10	9,283.10	9,283.10	20.58	20.72	-41.12	-0.34	-49.99	386.03	345.63	40.39	9.557		
9,400.00	9,382.10	9,383.10	9,383.10	20.77	20.95	-41.12	-0.34	-49.99	386.03	345.19	40.83	9.454		
9,500.00	9,482.10	9,483.10	9,483.10	20.97	21.17	-41.12	-0.34	-49.99	386.03	344.75	41.27	9.353		
9,600.00	9,582.10	9,583.10	9,583.10	21.18	21.40	-41.12	-0.34	-49.99	386.03	344.31	41.71	9.254		
9,700.00	9,683.05	9,684.05	9,684.05	21.39	21.63	-41.12	-0.34	-49.99	386.03	343.87	42.16	9.157		
9,750.00	9,732.04	9,733.04	9,733.04	21.49	21.74	150.94	-0.34	-49.99	387.86	345.56	42.30	9.169		
9,800.00	9,781.61	9,782.61	9,782.61	21.62	21.85	151.12	-0.34	-49.99	393.51	351.22	42.29	9.305		
9,850.00	9,830.43	9,831.43	9,831.43	21.77	21.96	151.40	-0.34	-49.99	402.98	360.87	42.11	9.589		
9,900.00	9,878.12	9,879.12	9,879.12	21.94	22.06	151.73	-0.34	-49.99	416.27	374.50	41.77	9.986		
9,950.00	9,924.34	9,925.34	9,925.34	22.13	22.17	152.06	-0.34	-49.99	433.35	392.09	41.26	10.502		
10,000.00	9,968.71	10,049.49	10,048.63	22.34	22.38	153.92	-12.71	-49.02	450.68	410.05	40.63	11.092		
10,050.00	10,010.91	10,199.66	10,189.82	22.59	22.63	154.58	-62.42	-45.10	461.93	421.99	39.94	11.566		
10,100.00	10,050.62	10,359.04	10,320.07	22.86	22.94	153.49	-153.10	-37.97	465.70	426.36	39.33	11.840		
10,150.00	10,087.52	10,514.28	10,418.18	23.15	23.42	150.70	-272.43	-28.58	461.81	422.79	39.02	11.835		
10,200.00	10,121.35	10,654.27	10,476.25	23.49	24.07	148.59	-399.03	-18.61	451.45	412.22	39.23	11.508		
10,250.00	10,151.85	10,774.53	10,500.32	23.85	24.81	141.69	-518.27	-9.39	436.52	396.44	40.08	10.891		
10,300.00	10,178.77	10,847.46	10,503.08	24.25	25.33	138.41	-588.90	-3.72	419.70	378.89	40.81	10.285		
10,350.00	10,201.93	10,888.50	10,503.25	24.67	25.63	136.92	-629.84	-0.93	406.44	365.31	41.14	9.880		
10,400.00	10,221.13	10,931.09	10,503.42	25.14	25.97	135.26	-672.36	1.50	397.52	355.77	41.75	9.521		
10,450.00	10,236.24	10,974.89	10,503.60	25.63	26.32	133.53	-716.11	3.50	392.78	350.17	42.61	9.218		
10,484.92	10,244.30	11,006.01	10,503.72	25.99	26.58	132.32	-747.21	4.62	391.83	348.50	43.33	9.042		
10,500.00	10,247.14	11,019.55	10,503.78	26.15	26.70	131.81	-760.74	5.03	392.01	348.33	43.88	8.975		
10,550.00	10,253.74	11,064.68	10,503.96	26.69	27.10	130.15	-805.87	6.04	394.96	350.06	44.90	8.795		
10,598.45	10,256.00	11,109.31	10,504.15	27.24	27.52	128.66	-850.49	6.53	401.13	354.93	46.20	8.683		
10,600.00	10,256.01	11,110.84	10,504.15	27.26	27.53	128.63	-852.01	6.54	401.37	355.14	46.23	8.882		
10,700.00	10,258.45	11,209.06	10,504.56	28.30	28.51	126.88	-950.24	7.27	416.28	367.73	48.55	8.574		
10,800.00	10,258.88	11,307.74	10,504.96	29.42	29.58	125.47	-1,048.92	8.01	429.37	378.45	50.92	8.433		
10,900.00	10,257.32	11,406.82	10,505.37	30.61	30.73	124.34	-1,147.98	8.75	440.52	387.21	53.31	8.263		
11,000.00	10,257.76	11,506.21	10,505.77	31.84	31.94	123.47	-1,247.37	9.49	449.63	393.90	55.73	8.068		
11,100.00	10,258.19	11,605.86	10,506.18	33.12	33.21	122.83	-1,347.02	10.23	456.63	398.48	58.15	7.852		
11,200.00	10,258.63	11,705.69	10,506.59	34.44	34.53	122.39	-1,446.84	10.97	461.47	400.90	60.56	7.620		
11,265.48	10,258.91	11,771.12	10,506.86	35.32	35.42	122.21	-1,512.28	11.46	463.44	401.32	62.13	7.459		
11,300.00	10,259.06	11,805.93	10,507.00	35.80	35.89	122.15	-1,548.78	11.72	464.24	401.25	62.98	7.371		
11,400.00	10,259.50	11,905.59	10,507.41	37.22	37.30	121.97	-1,646.74	12.47	466.54	401.01	65.54	7.119		

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design Paloma Blanco 19 Fed - 1H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM:MWD-ADJ													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,500.00	10,259.93	12,005.56	10,507.82	38.68	38.74	121.79	-1,746.70	13.21	468.85	400.70	68.16	6.879		
11,600.00	10,260.36	12,105.52	10,508.23	40.17	40.22	121.61	-1,848.66	13.96	471.17	400.32	70.84	6.651		
11,700.00	10,260.80	12,205.48	10,508.64	41.69	41.72	121.44	-1,946.62	14.70	473.49	399.90	73.59	6.434		
11,800.00	10,261.23	12,305.45	10,509.05	43.23	43.25	121.26	-2,046.58	15.45	475.81	399.43	76.38	6.230		
11,900.00	10,261.67	12,405.41	10,509.46	44.80	44.80	121.09	-2,146.54	16.19	478.14	398.92	79.22	6.036		
12,000.00	10,262.10	12,505.37	10,509.87	46.39	46.37	120.92	-2,246.50	16.94	480.47	398.37	82.10	5.852		
12,100.00	10,262.53	12,605.33	10,510.28	47.99	47.95	120.75	-2,346.46	17.68	482.81	397.78	85.03	5.678		
12,200.00	10,262.97	12,705.30	10,510.69	49.61	49.56	120.58	-2,446.42	18.43	485.15	397.16	87.98	5.514		
12,300.00	10,263.40	12,805.26	10,511.10	51.24	51.18	120.42	-2,546.37	19.17	487.49	396.52	90.98	5.358		
12,400.00	10,263.83	12,905.22	10,511.51	52.89	52.81	120.25	-2,646.33	19.92	489.84	395.84	94.00	5.211		
12,500.00	10,264.27	13,005.18	10,511.92	54.55	54.46	120.09	-2,746.29	20.67	492.19	395.14	97.05	5.071		
12,600.00	10,264.70	13,105.15	10,512.33	56.22	56.12	119.93	-2,846.25	21.41	494.55	394.42	100.13	4.939		
12,700.00	10,265.14	13,205.11	10,512.74	57.90	57.79	119.77	-2,946.21	22.16	496.91	393.68	103.23	4.814		
12,800.00	10,265.57	13,305.07	10,513.15	59.59	59.46	119.61	-3,046.17	22.90	499.27	392.92	106.36	4.694		
12,900.00	10,266.00	13,405.03	10,513.56	61.29	61.15	119.45	-3,146.13	23.65	501.64	392.14	109.51	4.581		
13,000.00	10,266.44	13,505.00	10,513.97	63.00	62.84	119.30	-3,246.09	24.39	504.01	391.34	112.67	4.473		
13,100.00	10,266.87	13,604.96	10,514.38	64.71	64.54	119.15	-3,346.05	25.14	506.39	390.53	115.86	4.371		
13,200.00	10,267.31	13,704.92	10,514.79	66.44	66.25	118.99	-3,446.01	25.88	508.77	389.70	119.06	4.273		
13,300.00	10,267.74	13,804.88	10,515.20	68.16	67.97	118.84	-3,545.96	26.63	511.15	388.87	122.28	4.180		
13,400.00	10,268.17	13,904.85	10,515.60	69.90	69.69	118.69	-3,645.92	27.37	513.54	388.01	125.52	4.091		
13,500.00	10,268.61	14,004.81	10,516.01	71.63	71.41	118.54	-3,745.88	28.12	515.93	387.15	128.77	4.006		
13,600.00	10,269.04	14,104.77	10,516.42	73.38	73.14	118.40	-3,845.84	28.87	518.32	386.28	132.04	3.925		
13,700.00	10,269.47	14,204.73	10,516.83	75.12	74.88	118.25	-3,945.80	29.61	520.72	385.40	135.32	3.848		
13,800.00	10,269.91	14,304.70	10,517.24	76.88	76.62	118.11	-4,045.76	30.36	523.11	384.50	138.61	3.774		
13,900.00	10,270.34	14,404.66	10,517.65	78.63	78.36	117.97	-4,145.72	31.10	525.52	383.60	141.92	3.703		
14,000.00	10,270.78	14,504.62	10,518.06	80.39	80.11	117.82	-4,245.68	31.85	527.92	382.69	145.23	3.635		
14,100.00	10,271.21	14,604.58	10,518.47	82.15	81.86	117.68	-4,345.64	32.59	530.33	381.77	148.56	3.570		
14,200.00	10,271.64	14,704.55	10,518.88	83.92	83.62	117.55	-4,445.60	33.34	532.75	380.85	151.90	3.507		
14,300.00	10,272.08	14,804.51	10,519.29	85.69	85.38	117.41	-4,545.55	34.08	535.16	379.91	155.25	3.447		
14,400.00	10,272.51	14,904.47	10,519.70	87.46	87.14	117.27	-4,645.51	34.83	537.58	378.97	158.61	3.389		
14,500.00	10,272.95	15,004.44	10,520.11	89.24	88.90	117.14	-4,745.47	35.57	540.00	378.03	161.97	3.334		
14,600.00	10,273.38	15,104.40	10,520.52	91.01	90.67	117.00	-4,845.43	36.32	542.43	377.08	165.35	3.280		
14,700.00	10,273.81	15,204.36	10,520.93	92.79	92.43	116.87	-4,945.39	37.07	544.85	376.12	168.73	3.229		
14,800.00	10,274.25	15,304.32	10,521.34	94.56	94.21	116.74	-5,045.35	37.81	547.28	375.16	172.13	3.180		
14,900.00	10,274.68	15,404.29	10,521.75	96.36	95.98	116.61	-5,145.31	38.56	549.72	374.19	175.53	3.132		
15,000.00	10,275.11	15,504.25	10,522.16	98.15	97.75	116.48	-5,245.27	39.30	552.15	373.21	178.94	3.086		
15,100.00	10,275.55	15,604.21	10,522.57	99.94	99.53	116.35	-5,345.23	40.05	554.59	372.24	182.35	3.041		
15,204.12	10,276.00	15,708.29	10,523.00	101.80	101.38	116.22	-5,445.20	40.82	557.13	371.21	185.92	2.997		

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design Paloma Blanco 19 Fed - 3H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													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	89.56	0.38	49.94	49.95					
100.00	100.00	99.00	99.00	0.08	0.08	89.56	0.38	49.94	49.94	49.77	0.17	297.746		
200.00	200.00	199.00	199.00	0.31	0.31	89.56	0.38	49.94	49.94	49.33	0.62	81.092		
300.00	300.00	299.00	299.00	0.53	0.53	89.56	0.38	49.94	49.94	48.88	1.07	46.876		
400.00	400.00	399.00	399.00	0.76	0.76	89.56	0.38	49.94	49.94	48.43	1.51	32.966		
500.00	500.00	499.00	499.00	0.98	0.98	89.56	0.38	49.94	49.94	47.98	1.96	25.423		
600.00	600.00	599.00	599.00	1.21	1.21	89.56	0.38	49.94	49.94	47.53	2.41	20.688		
700.00	700.00	699.00	699.00	1.43	1.43	89.56	0.38	49.94	49.94	47.08	2.86	17.441		
800.00	800.00	799.00	799.00	1.66	1.66	89.56	0.38	49.94	49.94	46.63	3.31	15.074		
900.00	900.00	899.00	899.00	1.88	1.88	89.56	0.38	49.94	49.94	46.18	3.76	13.273		
1,000.00	1,000.00	999.00	999.00	2.11	2.10	89.56	0.38	49.94	49.94	45.73	4.21	11.857		
1,100.00	1,100.00	1,099.00	1,099.00	2.33	2.33	89.56	0.38	49.94	49.94	45.28	4.66	10.713		
1,200.00	1,200.00	1,199.00	1,199.00	2.56	2.55	89.56	0.38	49.94	49.94	44.83	5.11	9.771		
1,300.00	1,300.00	1,299.00	1,299.00	2.78	2.78	89.56	0.38	49.94	49.94	44.38	5.56	8.981		
1,400.00	1,400.00	1,399.00	1,399.00	3.01	3.00	89.56	0.38	49.94	49.94	43.93	6.01	8.309		
1,500.00	1,500.00	1,499.00	1,499.00	3.23	3.23	89.56	0.38	49.94	49.94	43.48	6.46	7.731		
1,600.00	1,600.00	1,599.00	1,599.00	3.46	3.45	89.56	0.38	49.94	49.94	43.03	6.91	7.228		
1,700.00	1,700.00	1,699.00	1,699.00	3.68	3.68	89.56	0.38	49.94	49.94	42.58	7.36	6.787		
1,800.00	1,800.00	1,799.00	1,799.00	3.91	3.90	89.56	0.38	49.94	49.94	42.13	7.81	6.396		
1,900.00	1,900.00	1,899.00	1,899.00	4.13	4.13	89.56	0.38	49.94	49.94	41.68	8.26	6.048		
2,000.00	2,000.00	1,999.00	1,999.00	4.35	4.35	89.56	0.38	49.94	49.94	41.23	8.71	5.735		
2,100.00	2,100.00	2,099.00	2,099.00	4.58	4.58	89.56	0.38	49.94	49.94	40.78	9.16	5.454		
2,200.00	2,200.00	2,199.00	2,199.00	4.80	4.80	89.56	0.38	49.94	49.94	40.33	9.61	5.199		
2,300.00	2,300.00	2,299.00	2,299.00	5.03	5.03	89.56	0.38	49.94	49.94	39.89	10.06	4.966		
2,400.00	2,400.00	2,399.00	2,399.00	5.25	5.25	89.56	0.38	49.94	49.94	39.44	10.51	4.754		
2,500.00	2,500.00	2,499.00	2,499.00	5.48	5.48	89.56	0.38	49.94	49.94	38.99	10.96	4.559		
2,600.00	2,600.00	2,599.00	2,599.00	5.70	5.70	89.56	0.38	49.94	49.94	38.54	11.40	4.379		
2,700.00	2,700.00	2,699.00	2,699.00	5.93	5.93	89.56	0.38	49.94	49.94	38.09	11.85	4.213		
2,800.00	2,800.00	2,799.00	2,799.00	6.15	6.15	89.56	0.38	49.94	49.94	37.64	12.30	4.059		
2,900.00	2,900.00	2,899.00	2,899.00	6.38	6.38	89.56	0.38	49.94	49.94	37.19	12.75	3.916		
3,000.00	3,000.00	2,999.00	2,999.00	6.60	6.60	89.56	0.38	49.94	49.94	36.74	13.20	3.783		
3,100.00	3,100.00	3,099.00	3,099.00	6.83	6.83	89.56	0.38	49.94	49.94	36.29	13.65	3.658		
3,200.00	3,200.00	3,199.00	3,199.00	7.05	7.05	89.56	0.38	49.94	49.94	35.84	14.10	3.541		
3,300.00	3,300.00	3,299.00	3,299.00	7.28	7.27	89.56	0.38	49.94	49.94	35.39	14.55	3.432		
3,400.00	3,400.00	3,399.00	3,399.00	7.50	7.50	89.56	0.38	49.94	49.94	34.94	15.00	3.329		
3,500.00	3,500.00	3,499.00	3,499.00	7.73	7.72	89.56	0.38	49.94	49.94	34.49	15.45	3.232		
3,600.00	3,600.00	3,599.00	3,599.00	7.95	7.95	89.56	0.38	49.94	49.94	34.04	15.90	3.141		
3,700.00	3,700.00	3,699.00	3,699.00	8.18	8.17	89.56	0.38	49.94	49.94	33.59	16.35	3.055		
3,800.00	3,800.00	3,799.00	3,799.00	8.40	8.40	89.56	0.38	49.94	49.94	33.14	16.80	2.973		
3,900.00	3,900.00	3,899.00	3,899.00	8.63	8.62	89.56	0.38	49.94	49.94	32.69	17.25	2.895		
4,000.00	4,000.00	3,999.00	3,999.00	8.85	8.85	89.56	0.38	49.94	49.94	32.24	17.70	2.822		
4,100.00	4,100.00	4,099.00	4,099.00	9.07	9.07	89.56	0.38	49.94	49.94	31.79	18.15	2.752		
4,200.00	4,200.00	4,199.00	4,199.00	9.30	9.30	89.56	0.38	49.94	49.94	31.34	18.60	2.685		
4,300.00	4,300.00	4,299.00	4,299.00	9.52	9.52	89.56	0.38	49.94	49.94	30.89	19.05	2.622		
4,400.00	4,400.00	4,399.00	4,399.00	9.75	9.75	89.56	0.38	49.94	49.94	30.45	19.50	2.562		
4,500.00	4,500.00	4,499.00	4,499.00	9.97	9.97	89.56	0.38	49.94	49.94	30.00	19.95	2.504		
4,600.00	4,600.00	4,599.00	4,599.00	10.20	10.20	89.56	0.38	49.94	49.94	29.55	20.40	2.449		
4,700.00	4,700.00	4,699.00	4,699.00	10.42	10.42	89.56	0.38	49.94	49.94	29.10	20.84	2.396		
4,800.00	4,800.00	4,799.00	4,799.00	10.65	10.65	89.56	0.38	49.94	49.94	28.65	21.29	2.345		
4,900.00	4,900.00	4,899.00	4,899.00	10.87	10.87	89.56	0.38	49.94	49.94	28.20	21.74	2.297		
5,000.00	5,000.00	4,999.00	4,999.00	11.10	11.10	89.56	0.38	49.94	49.94	27.75	22.19	2.250		
5,100.00	5,100.00	5,099.00	5,099.00	11.32	11.32	89.56	0.38	49.94	49.94	27.30	22.64	2.206 CC		

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design: Paloma Blanco 19 Fed - 3H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
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		
5,200.00	5,199.99	5,197.89	5,197.88	11.52	11.52	-55.92	-0.25	51.03	50.29	27.26	23.04	2.183	ES, SF		
5,300.00	5,299.91	5,296.76	5,296.67	11.89	11.70	-57.31	-2.15	54.33	51.42	28.03	23.38	2.199			
5,400.00	5,399.69	5,395.59	5,395.29	11.87	11.89	-59.47	-5.34	59.84	53.37	29.54	23.73	2.249			
5,500.00	5,499.27	5,494.37	5,493.67	12.05	12.08	-62.23	-9.79	67.55	56.23	32.14	24.08	2.335			
5,600.00	5,598.72	5,593.07	5,591.70	12.23	12.27	-64.31	-15.51	77.46	60.63	38.18	24.45	2.480			
5,700.00	5,698.17	5,691.59	5,689.23	12.42	12.47	-64.67	-22.48	89.54	67.07	42.24	24.83	2.701			
5,800.00	5,797.63	5,790.17	5,786.44	12.61	12.68	-63.75	-30.68	103.73	75.43	50.22	25.21	2.992			
5,900.00	5,897.08	5,889.76	5,884.51	12.81	12.91	-62.69	-39.32	118.71	84.39	58.80	25.60	3.297			
6,000.00	5,996.53	5,989.35	5,982.58	13.01	13.14	-61.83	-47.97	133.68	93.38	67.39	25.99	3.593			
6,100.00	6,095.98	6,088.93	6,080.66	13.21	13.37	-61.13	-56.62	148.66	102.39	76.00	26.40	3.879			
6,200.00	6,195.43	6,188.52	6,178.73	13.42	13.62	-60.54	-65.26	163.64	111.41	84.61	26.81	4.156			
6,300.00	6,294.89	6,288.11	6,276.80	13.63	13.87	-60.04	-73.91	178.61	120.44	93.22	27.22	4.424			
6,400.00	6,394.34	6,387.69	6,374.88	13.84	14.13	-59.60	-82.55	193.59	129.48	101.84	27.64	4.684			
6,500.00	6,493.79	6,487.28	6,472.95	14.06	14.39	-59.23	-91.20	208.56	138.52	110.45	28.07	4.935			
6,600.00	6,593.24	6,586.86	6,571.02	14.28	14.66	-58.90	-99.85	223.54	147.57	119.07	28.50	5.177			
6,700.00	6,692.70	6,686.45	6,669.10	14.50	14.94	-58.61	-108.49	238.52	156.63	127.69	28.94	5.412			
6,800.00	6,792.15	6,786.04	6,767.17	14.73	15.22	-58.35	-117.14	253.49	165.68	136.30	29.38	5.639			
6,900.00	6,891.60	6,885.62	6,865.24	14.96	15.50	-58.12	-125.79	268.47	174.74	144.91	29.83	5.858			
7,000.00	6,991.05	6,985.21	6,963.32	15.19	15.79	-57.91	-134.43	283.44	183.81	153.53	30.28	6.070			
7,100.00	7,090.50	7,084.80	7,061.39	15.42	16.09	-57.72	-143.08	298.42	192.87	162.13	30.74	6.275			
7,200.00	7,189.96	7,184.38	7,159.46	15.65	16.39	-57.54	-151.73	313.40	201.94	170.74	31.20	6.473			
7,300.00	7,289.41	7,283.97	7,257.54	15.89	16.69	-57.39	-160.37	328.37	211.01	179.35	31.66	6.665			
7,400.00	7,388.86	7,383.55	7,355.61	16.13	16.99	-57.24	-169.02	343.35	220.08	187.95	32.13	6.850			
7,500.00	7,488.31	7,483.14	7,453.68	16.37	17.30	-57.11	-177.67	358.33	229.15	196.55	32.60	7.030			
7,600.00	7,587.77	7,582.73	7,551.76	16.61	17.62	-56.98	-186.31	373.30	238.22	205.15	33.07	7.203			
7,700.00	7,687.22	7,682.31	7,649.83	16.85	17.93	-56.87	-194.96	388.28	247.29	213.75	33.55	7.371			
7,800.00	7,786.67	7,781.90	7,747.90	17.10	18.25	-56.76	-203.61	403.25	256.37	222.34	34.03	7.534			
7,900.00	7,886.12	7,881.49	7,845.98	17.35	18.57	-56.66	-212.25	418.23	265.44	230.93	34.51	7.692			
8,000.00	7,985.57	7,981.07	7,944.05	17.60	18.90	-56.57	-220.90	433.21	274.52	239.52	35.00	7.844			
8,100.00	8,085.03	8,080.66	8,042.13	17.85	19.22	-56.48	-229.55	448.18	283.60	248.11	35.48	7.992			
8,200.00	8,184.48	8,180.25	8,140.20	18.10	19.55	-56.40	-238.19	463.16	292.67	256.70	35.98	8.135			
8,300.00	8,283.93	8,279.83	8,238.27	18.35	19.88	-56.33	-246.84	478.13	301.75	265.28	36.47	8.274			
8,400.00	8,383.38	8,379.42	8,336.35	18.61	20.21	-56.25	-255.48	493.11	310.83	273.86	36.96	8.409			
8,500.00	8,482.84	8,479.00	8,434.42	18.86	20.55	-56.19	-264.13	508.09	319.91	282.44	37.46	8.539			
8,600.00	8,582.41	8,578.51	8,532.41	19.11	20.89	-56.06	-272.77	523.05	329.71	291.76	37.96	8.666			
8,700.00	8,682.20	8,677.81	8,630.20	19.34	21.23	-55.59	-281.39	537.98	341.00	302.58	38.42	8.786			
8,800.00	8,782.12	8,776.83	8,727.72	19.55	21.56	-54.84	-289.99	552.87	353.81	314.97	38.84	9.109			
8,900.00	8,882.10	8,875.50	8,824.89	19.75	21.90	91.17	-298.56	567.71	368.24	329.62	38.61	9.537			
9,000.00	8,982.10	8,973.98	8,921.88	19.95	22.24	92.41	-307.11	582.52	383.59	344.59	39.00	9.837			
9,100.00	9,082.10	9,072.46	9,018.86	20.15	22.59	93.56	-315.66	597.33	399.11	359.72	39.39	10.132			
9,200.00	9,182.10	9,170.94	9,115.85	20.36	22.93	94.63	-324.21	612.14	414.78	374.98	39.79	10.423			
9,300.00	9,282.10	9,269.42	9,212.83	20.56	23.27	95.62	-332.76	626.95	430.57	390.37	40.20	10.711			
9,400.00	9,382.10	9,367.91	9,309.81	20.77	23.62	96.53	-341.31	641.76	446.49	405.88	40.61	10.995			
9,500.00	9,482.10	9,466.39	9,406.80	20.97	23.97	97.39	-349.85	656.57	462.50	421.48	41.02	11.275			
9,600.00	9,582.10	9,570.56	9,509.45	21.18	24.32	98.22	-358.75	671.97	478.36	436.91	41.45	11.542			
9,700.95	9,683.05	9,683.84	9,621.50	21.39	24.64	98.94	-367.04	686.33	492.13	450.25	41.88	11.750			
9,750.00	9,732.04	9,739.35	9,676.57	21.49	24.79	-68.57	-370.50	692.32	497.09	454.40	42.69	11.644			
9,800.00	9,781.61	9,795.98	9,732.87	21.62	24.93	-68.83	-373.61	697.71	499.89	456.94	42.95	11.638			
9,850.00	9,830.43	9,852.08	9,788.71	21.77	25.06	-69.85	-376.28	702.33	500.54	457.27	43.26	11.569			
9,900.00	9,878.12	9,907.05	9,843.50	21.94	25.19	-71.56	-378.50	706.18	499.24	455.61	43.64	11.441			
9,950.00	9,924.34	9,960.32	9,896.65	22.13	25.30	-73.91	-380.27	709.25	496.40	452.31	44.09	11.258			
10,000.00	9,968.71	10,005.04	9,941.29	22.34	25.40	-76.43	-381.73	711.42	492.66	448.08	44.60	11.048			

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design Paloma Blanco 19 Fed - 3H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-LEAM.MWD-ADJ														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,050.00	10,010.91	10,042.15	9,978.19	22.59	25.50	-78.70		-384.92	713.81	489.39	444.28	45.12	10.845		
10,100.00	10,050.82	10,080.11	10,015.62	22.86	25.61	-81.04		-390.59	716.39	488.96	441.24	45.72	10.852		
10,150.00	10,087.52	10,119.07	10,053.51	23.15	25.75	-83.43		-398.91	719.80	485.52	439.16	46.36	10.473		
10,188.88	10,113.98	10,150.00	10,083.12	23.41	25.86	-85.31		-407.30	722.90	485.17	438.28	46.89	10.348		
10,200.00	10,121.35	10,153.17	10,091.80	23.49	25.90	-85.86		-410.09	723.88	485.20	438.15	47.04	10.314		
10,250.00	10,151.85	10,200.61	10,130.41	23.85	26.08	-88.31		-424.36	728.69	486.11	438.36	47.75	10.181		
10,300.00	10,178.77	10,243.63	10,169.21	24.25	26.29	-90.77		-442.01	734.29	488.33	439.88	48.46	10.078		
10,350.00	10,201.93	10,288.48	10,208.09	24.67	26.53	-93.23		-463.40	740.75	491.93	442.78	49.15	10.009		
10,400.00	10,221.13	10,335.50	10,246.84	25.14	26.81	-95.69		-488.95	748.17	496.89	447.08	49.81	9.975		
10,450.00	10,236.24	10,385.09	10,285.21	25.63	27.13	-98.14		-519.18	756.65	503.19	452.75	50.43	9.977		
10,500.00	10,247.14	10,437.73	10,322.81	26.15	27.51	-100.59		-554.70	766.33	510.72	459.72	51.00	10.013		
10,550.00	10,253.74	10,494.00	10,359.09	26.69	27.95	-103.04		-596.25	777.34	519.35	467.82	51.53	10.079		
10,598.45	10,256.00	10,552.61	10,392.21	27.24	28.45	-105.41		-643.03	789.43	528.54	476.56	51.99	10.167		
10,600.00	10,256.01	10,554.57	10,393.23	27.26	28.47	-105.51		-644.65	789.84	528.85	476.85	52.00	10.171		
10,700.00	10,256.45	10,696.96	10,451.44	28.30	29.87	-111.31		-770.37	821.13	547.31	494.57	52.74	10.378		
10,800.00	10,256.88	10,863.79	10,476.71	29.42	31.77	-113.35		-930.26	859.00	558.85	504.15	54.69	10.218		
10,900.00	10,257.32	10,979.49	10,477.34	30.61	33.04	-113.08		-1,043.36	883.35	565.17	508.36	56.81	9.948		
11,000.00	10,257.76	11,095.13	10,477.96	31.84	34.34	-112.84		-1,157.09	904.24	571.13	512.14	58.99	9.881		
11,100.00	10,258.19	11,211.02	10,478.59	33.12	35.70	-112.62		-1,271.64	921.72	576.72	515.46	61.26	9.414		
11,200.00	10,258.63	11,327.14	10,479.22	34.44	37.11	-112.43		-1,386.91	935.74	581.94	518.34	63.59	9.151		
11,265.48	10,258.91	11,403.29	10,479.63	35.32	38.05	-112.31		-1,462.71	943.03	585.14	520.00	65.14	8.983		
11,300.00	10,259.06	11,443.48	10,479.85	35.80	38.56	-112.24		-1,502.77	946.27	586.62	520.51	66.11	8.873		
11,400.00	10,259.50	11,560.07	10,480.48	37.22	40.03	-112.14		-1,619.14	953.28	589.00	520.06	68.95	8.543		
11,500.00	10,259.93	11,676.73	10,481.11	38.68	41.54	-112.18		-1,735.74	958.73	588.56	516.76	71.80	8.197		
11,600.00	10,260.36	11,778.08	10,481.65	40.17	42.92	-112.27		-1,837.07	957.94	586.48	511.97	74.52	7.871		
11,700.00	10,260.80	11,878.04	10,482.19	41.69	44.32	-112.37		-1,937.03	959.12	584.40	507.13	77.27	7.583		
11,800.00	10,261.23	11,978.01	10,482.73	43.23	45.75	-112.46		-2,037.00	960.31	582.31	502.25	80.06	7.273		
11,900.00	10,261.67	12,077.98	10,483.26	44.80	47.20	-112.56		-2,136.96	961.49	580.23	497.32	82.90	6.999		
12,000.00	10,262.10	12,177.96	10,483.80	46.39	48.68	-112.66		-2,236.93	962.67	578.15	492.37	85.78	6.740		
12,100.00	10,262.53	12,277.93	10,484.33	47.99	50.19	-112.75		-2,336.89	963.85	576.07	487.38	88.68	6.496		
12,200.00	10,262.97	12,377.90	10,484.87	49.61	51.71	-112.85		-2,436.86	965.04	573.99	482.37	91.62	6.265		
12,300.00	10,263.40	12,477.88	10,485.41	51.24	53.25	-112.95		-2,536.82	966.22	571.91	477.33	94.58	6.047		
12,400.00	10,263.83	12,577.85	10,485.94	52.89	54.81	-113.05		-2,636.79	967.40	569.84	472.28	97.56	5.841		
12,500.00	10,264.27	12,677.82	10,486.48	54.55	56.39	-113.15		-2,736.75	968.59	567.76	467.20	100.56	5.646		
12,600.00	10,264.70	12,777.80	10,487.02	56.22	57.98	-113.25		-2,836.72	969.77	565.69	462.11	103.58	5.461		
12,700.00	10,265.14	12,877.77	10,487.55	57.90	59.58	-113.35		-2,936.68	970.95	563.62	457.01	106.61	5.287		
12,800.00	10,265.57	12,977.74	10,488.09	59.59	61.20	-113.46		-3,036.65	972.13	561.55	451.89	109.66	5.121		
12,900.00	10,266.00	13,077.72	10,488.62	61.29	62.83	-113.56		-3,136.61	973.32	559.49	446.76	112.72	4.963		
13,000.00	10,266.44	13,177.69	10,489.16	63.00	64.47	-113.66		-3,236.58	974.50	557.42	441.63	115.80	4.814		
13,100.00	10,266.87	13,277.67	10,489.70	64.71	66.12	-113.77		-3,336.54	975.68	555.36	436.49	118.88	4.672		
13,200.00	10,267.31	13,377.64	10,490.23	66.44	67.78	-113.87		-3,436.51	976.87	553.30	431.34	121.96	4.537		
13,300.00	10,267.74	13,477.61	10,490.77	68.16	69.44	-113.98		-3,536.47	978.05	551.24	426.18	125.06	4.408		
13,400.00	10,268.17	13,577.59	10,491.31	69.90	71.12	-114.09		-3,636.44	979.23	549.19	421.02	128.16	4.285		
13,500.00	10,268.61	13,677.56	10,491.84	71.63	72.80	-114.19		-3,736.40	980.41	547.13	415.86	131.27	4.168		
13,600.00	10,269.04	13,777.53	10,492.38	73.38	74.49	-114.30		-3,836.37	981.60	545.08	410.70	134.38	4.056		
13,700.00	10,269.47	13,877.51	10,492.92	75.12	76.18	-114.41		-3,936.33	982.78	543.03	405.54	137.49	3.950		
13,800.00	10,269.91	13,977.48	10,493.45	76.88	77.88	-114.52		-4,036.30	983.96	540.98	400.37	140.61	3.847		
13,900.00	10,270.34	14,077.45	10,493.99	78.63	79.59	-114.64		-4,136.28	985.15	538.93	395.21	143.73	3.750		
14,000.00	10,270.78	14,177.43	10,494.52	80.39	81.30	-114.75		-4,236.23	986.33	536.89	390.04	146.85	3.656		
14,100.00	10,271.21	14,277.40	10,495.06	82.15	83.02	-114.86		-4,336.19	987.51	534.85	384.88	149.97	3.566		
14,200.00	10,271.64	14,377.37	10,495.60	83.92	84.74	-114.97		-4,436.16	988.69	532.81	379.72	153.09	3.480		
14,300.00	10,272.08	14,477.35	10,496.13	85.69	86.47	-115.09		-4,536.13	989.88	530.77	374.56	156.21	3.398		

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 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Offset Design Paloma Blanco 19 Fed - 3H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: D-LEAM MWD-ADJ												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	Warning
14,400.00	10,272.51	14,577.32	10,496.67	87.46	88.20	-115.20	-4,836.09	991.06	528.73	369.40	159.33	3.318	
14,500.00	10,272.95	14,677.29	10,497.21	89.24	89.94	-115.32	-4,736.06	992.24	526.70	364.25	162.45	3.242	
14,600.00	10,273.38	14,777.27	10,497.74	91.01	91.67	-115.44	-4,836.02	993.43	524.67	359.10	165.56	3.169	
14,700.00	10,273.81	14,877.24	10,498.28	92.79	93.42	-115.56	-4,935.99	994.61	522.64	353.96	168.68	3.098	
14,800.00	10,274.25	14,977.22	10,498.82	94.58	95.16	-115.68	-5,035.95	995.79	520.61	348.82	171.79	3.031	
14,900.00	10,274.68	15,077.19	10,499.35	96.35	96.91	-115.80	-5,135.92	996.97	518.58	343.69	174.90	2.965	
15,000.00	10,275.11	15,177.16	10,499.89	98.15	98.66	-115.92	-5,235.88	998.16	516.56	338.56	178.00	2.902	
15,100.00	10,275.55	15,277.14	10,500.42	99.94	100.42	-116.04	-5,335.85	999.34	514.54	333.43	181.11	2.841	
15,204.12	10,276.00	15,381.23	10,500.98	101.80	102.25	-116.17	-5,439.93	1,000.57	512.44	328.11	184.33	2.780	

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

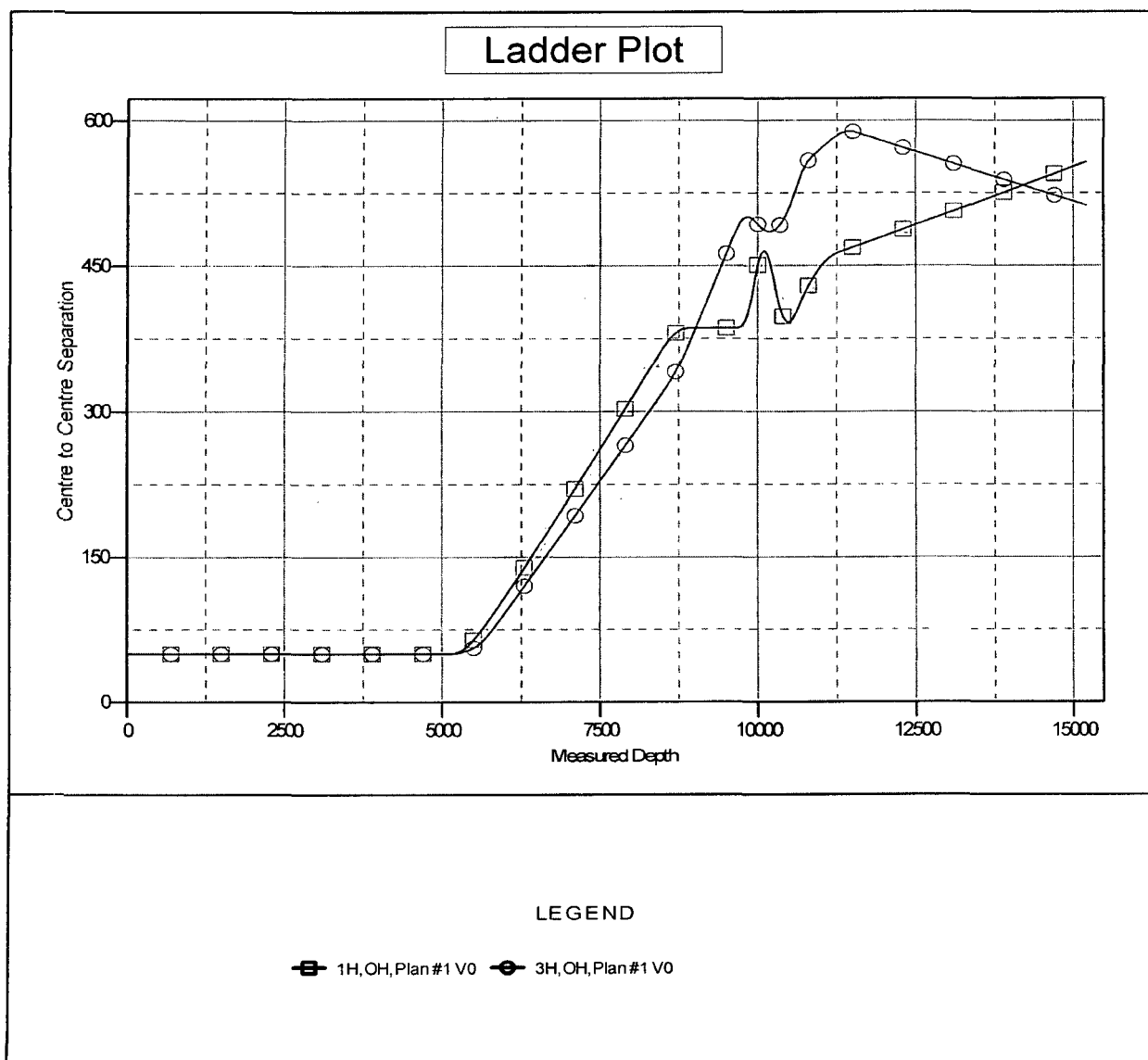
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed.	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Reference Depths are relative to 3540.3' GL + 25' RKB @ 3565.30usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 2H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.44°



LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local/Co-ordinate Reference:	Well 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	2H	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:	Offset Datum

Reference Depths are relative to 3540.3' GL + 25' RKB @ 3565.30usft
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