

HOBBS OCD

APR 27 2016

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DEVON ENERGY

Lea County, NM (NAD-83)

Paloma Blanco 19 Fed

3H

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 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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	15,384.51	Plan #1 (OH)	LEAM MWD-ADJ	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						
Paloma Blanco 19 Fed.						
1H - OH - Plan #1	5,100.00	5,102.00	99.93	77.28	4.412	CC, ES
1H - OH - Plan #1	5,200.00	5,201.99	101.06	77.99	4.380	SF
2H - OH - Plan #1	5,101.97	5,102.99	49.94	27.29	2.204	CC
2H - OH - Plan #1	5,200.00	5,201.75	50.31	27.27	2.183	ES, SF

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	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+W-S	+E-W	Distance	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+W-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
0.00	0.00	2.00	2.00	0.00	0.00	-90.41	-0.72	-99.93	99.93			
100.00	100.00	102.00	102.00	0.08	0.09	-90.41	-0.72	-99.93	99.93	99.76	0.17	577.411
200.00	200.00	202.00	202.00	0.31	0.31	-90.41	-0.72	-99.93	99.93	99.31	0.62	180.508
300.00	300.00	302.00	302.00	0.53	0.54	-90.41	-0.72	-99.93	99.93	98.86	1.07	93.209
400.00	400.00	402.00	402.00	0.76	0.76	-90.41	-0.72	-99.93	99.93	98.41	1.52	65.673
500.00	500.00	502.00	502.00	0.98	0.99	-90.41	-0.72	-99.93	99.93	97.96	1.97	50.696
600.00	600.00	602.00	602.00	1.21	1.21	-90.41	-0.72	-99.93	99.93	97.51	2.42	41.282
700.00	700.00	702.00	702.00	1.43	1.44	-90.41	-0.72	-99.93	99.93	97.06	2.87	34.817
800.00	800.00	802.00	802.00	1.66	1.66	-90.41	-0.72	-99.93	99.93	96.61	3.32	30.102
900.00	900.00	902.00	902.00	1.88	1.89	-90.41	-0.72	-99.93	99.93	96.16	3.77	26.512
1,000.00	1,000.00	1,002.00	1,002.00	2.11	2.11	-90.41	-0.72	-99.93	99.93	95.71	4.22	23.687
1,100.00	1,100.00	1,102.00	1,102.00	2.33	2.34	-90.41	-0.72	-99.93	99.93	95.26	4.67	21.406
1,200.00	1,200.00	1,202.00	1,202.00	2.56	2.56	-90.41	-0.72	-99.93	99.93	94.81	5.12	19.526
1,300.00	1,300.00	1,302.00	1,302.00	2.78	2.79	-90.41	-0.72	-99.93	99.93	94.37	5.57	17.949
1,400.00	1,400.00	1,402.00	1,402.00	3.01	3.01	-90.41	-0.72	-99.93	99.93	93.92	6.02	16.608
1,500.00	1,500.00	1,502.00	1,502.00	3.23	3.24	-90.41	-0.72	-99.93	99.93	93.47	6.47	15.454
1,600.00	1,600.00	1,602.00	1,602.00	3.46	3.46	-90.41	-0.72	-99.93	99.93	93.02	6.92	14.449
1,700.00	1,700.00	1,702.00	1,702.00	3.68	3.69	-90.41	-0.72	-99.93	99.93	92.57	7.37	13.568
1,800.00	1,800.00	1,802.00	1,802.00	3.91	3.91	-90.41	-0.72	-99.93	99.93	92.12	7.82	12.787
1,900.00	1,900.00	1,902.00	1,902.00	4.13	4.13	-90.41	-0.72	-99.93	99.93	91.67	8.26	12.092
2,000.00	2,000.00	2,002.00	2,002.00	4.35	4.36	-90.41	-0.72	-99.93	99.93	91.22	8.71	11.468
2,100.00	2,100.00	2,102.00	2,102.00	4.58	4.58	-90.41	-0.72	-99.93	99.93	90.77	9.16	10.905
2,200.00	2,200.00	2,202.00	2,202.00	4.80	4.81	-90.41	-0.72	-99.93	99.93	90.32	9.61	10.395

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

LEAM Drilling Systems LLC

Anticollision Report

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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
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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,300.00	2,300.00	2,302.00	2,302.00	5.03	5.03	-90.41	-0.72	-99.93	99.93	89.87	10.06	9.931			
2,400.00	2,400.00	2,402.00	2,402.00	5.25	5.28	-90.41	-0.72	-99.93	99.93	89.42	10.51	9.506			
2,500.00	2,500.00	2,502.00	2,502.00	5.48	5.48	-90.41	-0.72	-99.93	99.93	88.97	10.96	9.116			
2,600.00	2,600.00	2,602.00	2,602.00	5.70	5.71	-90.41	-0.72	-99.93	99.93	88.52	11.41	8.757			
2,700.00	2,700.00	2,702.00	2,702.00	5.93	5.93	-90.41	-0.72	-99.93	99.93	88.07	11.86	8.425			
2,800.00	2,800.00	2,802.00	2,802.00	6.15	6.16	-90.41	-0.72	-99.93	99.93	87.62	12.31	8.118			
2,900.00	2,900.00	2,902.00	2,902.00	6.38	6.38	-90.41	-0.72	-99.93	99.93	87.17	12.76	7.832			
3,000.00	3,000.00	3,002.00	3,002.00	6.60	6.61	-90.41	-0.72	-99.93	99.93	86.72	13.21	7.565			
3,100.00	3,100.00	3,102.00	3,102.00	6.83	6.83	-90.41	-0.72	-99.93	99.93	86.27	13.66	7.316			
3,200.00	3,200.00	3,202.00	3,202.00	7.05	7.06	-90.41	-0.72	-99.93	99.93	85.82	14.11	7.083			
3,300.00	3,300.00	3,302.00	3,302.00	7.28	7.28	-90.41	-0.72	-99.93	99.93	85.37	14.56	6.864			
3,400.00	3,400.00	3,402.00	3,402.00	7.50	7.51	-90.41	-0.72	-99.93	99.93	84.92	15.01	6.659			
3,500.00	3,500.00	3,502.00	3,502.00	7.73	7.73	-90.41	-0.72	-99.93	99.93	84.48	15.46	6.465			
3,600.00	3,600.00	3,602.00	3,602.00	7.95	7.96	-90.41	-0.72	-99.93	99.93	84.03	15.91	6.282			
3,700.00	3,700.00	3,702.00	3,702.00	8.18	8.18	-90.41	-0.72	-99.93	99.93	83.58	16.36	6.110			
3,800.00	3,800.00	3,802.00	3,802.00	8.40	8.41	-90.41	-0.72	-99.93	99.93	83.13	16.81	5.946			
3,900.00	3,900.00	3,902.00	3,902.00	8.63	8.63	-90.41	-0.72	-99.93	99.93	82.68	17.26	5.791			
4,000.00	4,000.00	4,002.00	4,002.00	8.85	8.85	-90.41	-0.72	-99.93	99.93	82.23	17.70	5.644			
4,100.00	4,100.00	4,102.00	4,102.00	9.07	9.08	-90.41	-0.72	-99.93	99.93	81.78	18.15	5.505			
4,200.00	4,200.00	4,202.00	4,202.00	9.30	9.30	-90.41	-0.72	-99.93	99.93	81.33	18.60	5.372			
4,300.00	4,300.00	4,302.00	4,302.00	9.52	9.53	-90.41	-0.72	-99.93	99.93	80.88	19.05	5.245			
4,400.00	4,400.00	4,402.00	4,402.00	9.75	9.75	-90.41	-0.72	-99.93	99.93	80.43	19.50	5.124			
4,500.00	4,500.00	4,502.00	4,502.00	9.97	9.98	-90.41	-0.72	-99.93	99.93	79.98	19.95	5.009			
4,600.00	4,600.00	4,602.00	4,602.00	10.20	10.20	-90.41	-0.72	-99.93	99.93	79.53	20.40	4.898			
4,700.00	4,700.00	4,702.00	4,702.00	10.42	10.43	-90.41	-0.72	-99.93	99.93	79.08	20.85	4.793			
4,800.00	4,800.00	4,802.00	4,802.00	10.65	10.65	-90.41	-0.72	-99.93	99.93	78.63	21.30	4.691			
4,900.00	4,900.00	4,902.00	4,902.00	10.87	10.88	-90.41	-0.72	-99.93	99.93	78.18	21.75	4.594			
5,000.00	5,000.00	5,002.00	5,002.00	11.10	11.10	-90.41	-0.72	-99.93	99.93	77.73	22.20	4.501			
5,100.00	5,100.00	5,102.00	5,102.00	11.32	11.33	-90.41	-0.72	-99.93	99.93	77.28	22.65	4.412 CC, ES			
5,200.00	5,199.99	5,201.99	5,201.99	11.53	11.55	149.95	-0.72	-99.93	101.06	77.99	23.07	4.380 SF			
5,300.00	5,299.91	5,301.91	5,301.91	11.71	11.78	151.01	-0.72	-99.93	104.48	81.02	23.46	4.454			
5,400.00	5,399.89	5,401.89	5,401.89	11.90	12.00	152.61	-0.72	-99.93	110.25	86.41	23.84	4.625			
5,500.00	5,499.27	5,501.27	5,501.27	12.09	12.22	154.60	-0.72	-99.93	118.45	94.25	24.20	4.895			
5,600.00	5,598.57	5,600.57	5,600.57	12.28	12.45	156.77	-0.72	-99.93	129.18	104.63	24.55	5.263			
5,700.00	5,697.54	5,699.54	5,699.54	12.49	12.67	159.97	-0.72	-99.93	142.49	117.61	24.88	5.728			
5,768.67	5,763.29	5,765.29	5,765.29	12.63	12.82	160.39	-0.72	-99.93	152.83	127.74	25.09	6.092			
5,800.00	5,796.11	5,798.11	5,798.11	12.71	12.89	161.10	-0.72	-99.93	158.30	133.08	25.22	6.276			
5,900.00	5,894.60	5,896.60	5,896.60	12.93	13.11	162.94	-0.72	-99.93	174.84	149.22	25.83	6.823			
6,000.00	5,993.08	5,995.08	5,995.08	13.16	13.33	164.46	-0.72	-99.93	191.53	165.49	26.04	7.356			
6,100.00	6,091.56	6,093.56	6,093.56	13.40	13.56	165.74	-0.72	-99.93	208.33	181.88	26.45	7.877			
6,200.00	6,190.04	6,192.04	6,192.04	13.65	13.78	166.83	-0.72	-99.93	225.21	198.35	26.87	8.383			
6,300.00	6,288.52	6,290.52	6,290.52	13.90	14.00	167.76	-0.72	-99.93	242.17	214.88	27.28	8.876			
6,400.00	6,387.00	6,389.00	6,389.00	14.16	14.22	168.58	-0.72	-99.93	259.17	231.47	27.70	9.355			
6,500.00	6,485.48	6,487.48	6,487.48	14.43	14.44	169.29	-0.72	-99.93	276.23	248.10	28.13	9.821			
6,600.00	6,583.96	6,585.96	6,585.96	14.70	14.66	169.92	-0.72	-99.93	293.31	264.76	28.55	10.273			
6,700.00	6,682.44	6,684.44	6,684.44	14.98	14.88	170.48	-0.72	-99.93	310.43	281.46	28.98	10.713			
6,800.00	6,780.92	6,782.92	6,782.92	15.26	15.11	170.98	-0.72	-99.93	327.58	298.17	29.41	11.140			
6,900.00	6,879.40	6,881.40	6,881.40	15.55	15.33	171.43	-0.72	-99.93	344.75	314.91	29.83	11.555			
7,000.00	6,977.88	6,979.88	6,979.88	15.84	15.55	171.84	-0.72	-99.93	361.93	331.66	30.27	11.958			
7,100.00	7,076.36	7,078.36	7,078.36	16.13	15.77	172.22	-0.72	-99.93	379.13	348.43	30.70	12.350			
7,200.00	7,174.85	7,176.85	7,176.85	16.43	15.99	172.56	-0.72	-99.93	396.35	365.22	31.13	12.731			
7,300.00	7,273.33	7,275.33	7,275.33	16.74	16.21	172.87	-0.72	-99.93	413.58	382.01	31.57	13.101			

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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:
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:
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)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,400.00	7,371.81	7,373.81	7,373.81	17.05	18.43	173.15	-0.72	-99.93	430.82	398.81	32.01	13.461	
7,500.00	7,470.29	7,472.29	7,472.29	17.36	18.65	173.42	-0.72	-99.93	448.07	415.62	32.44	13.811	
7,600.00	7,568.77	7,570.77	7,570.77	17.67	18.88	173.68	-0.72	-99.93	465.33	432.44	32.88	14.151	
7,700.00	7,667.25	7,669.25	7,669.25	17.99	19.10	173.89	-0.72	-99.93	482.59	449.27	33.32	14.482	
7,800.00	7,765.73	7,767.73	7,767.73	18.31	19.32	174.10	-0.72	-99.93	499.86	466.10	33.76	14.804	
7,900.00	7,864.21	7,866.21	7,866.21	18.63	19.54	174.30	-0.72	-99.93	517.14	482.93	34.21	15.118	
8,000.00	7,962.69	7,964.69	7,964.69	18.96	19.76	174.48	-0.72	-99.93	534.43	499.77	34.65	15.423	
8,100.00	8,061.17	8,063.17	8,063.17	19.29	19.98	174.66	-0.72	-99.93	551.72	516.62	35.10	15.720	
8,200.00	8,159.65	8,161.65	8,161.65	19.62	20.20	174.82	-0.72	-99.93	569.01	533.47	35.54	16.010	
8,300.00	8,258.13	8,260.13	8,260.13	19.95	20.42	174.97	-0.72	-99.93	586.31	550.32	35.99	16.292	
8,400.00	8,356.61	8,358.61	8,358.61	20.28	20.64	175.12	-0.72	-99.93	603.61	567.17	36.44	16.567	
8,500.00	8,455.10	8,457.10	8,457.10	20.62	20.86	175.25	-0.72	-99.93	620.91	584.03	36.88	16.835	
8,600.00	8,553.58	8,555.58	8,555.58	20.96	21.08	175.38	-0.72	-99.93	638.22	600.89	37.33	17.096	
8,700.00	8,652.06	8,654.06	8,654.06	21.30	21.30	175.51	-0.72	-99.93	655.53	617.75	37.78	17.350	
8,800.00	8,750.54	8,752.54	8,752.54	21.64	21.53	175.62	-0.72	-99.93	672.85	634.62	38.23	17.599	
8,900.00	8,849.02	8,851.02	8,851.02	21.99	21.75	175.73	-0.72	-99.93	690.17	651.48	38.68	17.841	
9,000.00	8,947.50	8,949.50	8,949.50	22.33	21.97	175.84	-0.72	-99.93	707.49	668.35	39.14	18.078	
9,100.00	9,045.98	9,047.98	9,047.98	22.68	22.20	175.94	-0.72	-99.93	724.81	685.22	39.59	18.309	
9,200.00	9,144.46	9,146.46	9,146.46	23.03	22.42	176.03	-0.72	-99.93	742.13	702.09	40.04	18.534	
9,300.00	9,242.94	9,244.94	9,244.94	23.38	22.64	176.12	-0.72	-99.93	759.46	718.96	40.50	18.754	
9,400.00	9,341.42	9,343.42	9,343.42	23.73	22.86	176.21	-0.72	-99.93	776.78	735.83	40.95	18.969	
9,500.00	9,439.90	9,441.90	9,441.90	24.09	23.08	176.29	-0.72	-99.93	794.11	752.71	41.41	19.179	
9,521.67	9,461.24	9,463.24	9,463.24	24.16	23.13	176.31	-0.72	-99.93	797.87	756.36	41.50	19.224	
9,600.00	9,538.52	9,540.52	9,540.52	24.41	23.30	176.38	-0.72	-99.93	810.85	768.71	41.94	19.330	
9,700.00	9,637.52	9,639.52	9,639.52	24.69	23.53	176.45	-0.72	-99.93	824.67	782.20	42.47	19.419	
9,800.00	9,736.86	9,738.86	9,738.86	24.94	23.75	176.51	-0.72	-99.93	838.10	793.13	42.97	19.457	
9,900.00	9,836.47	9,838.47	9,838.47	25.17	23.97	176.56	-0.72	-99.93	844.93	801.48	43.45	19.445	
9,988.33	9,924.62	9,926.62	9,926.62	25.36	24.17	176.59	-0.72	-99.93	850.56	808.71	43.86	19.395	
10,000.00	9,936.26	9,938.26	9,938.26	25.39	24.24	176.64	-1.00	-99.84	851.12	807.18	43.94	19.370	
10,050.00	9,985.98	10,172.43	10,165.27	25.52	22.59	142.45	-51.07	-95.97	849.50	805.20	44.30	19.176	
10,100.00	10,035.04	10,347.90	10,311.83	25.68	22.91	133.07	-146.00	-88.50	842.57	797.89	44.68	18.858	
10,150.00	10,083.12	10,484.97	10,402.19	25.86	23.31	126.33	-248.32	-80.44	832.79	787.59	45.21	18.422	
10,200.00	10,129.84	10,591.12	10,453.91	26.08	23.75	121.09	-340.57	-73.18	822.23	776.36	45.87	17.924	
10,250.00	10,174.84	10,675.58	10,482.31	26.32	24.19	116.88	-419.77	-66.95	812.24	765.60	46.84	17.414	
10,300.00	10,217.79	10,745.26	10,496.75	26.60	24.61	113.37	-487.69	-61.60	803.62	756.14	47.48	16.925	
10,350.00	10,258.34	10,804.80	10,502.45	26.90	25.02	110.30	-548.75	-56.96	796.85	748.47	48.38	16.471	
10,400.00	10,296.20	10,843.53	10,503.07	27.24	25.30	108.27	-585.35	-53.95	792.34	743.20	49.13	16.126	
10,450.00	10,331.08	10,872.90	10,503.18	27.60	25.52	106.85	-614.64	-51.88	790.80	740.95	49.85	15.863	
10,451.81	10,332.28	10,874.01	10,503.19	27.62	25.52	106.59	-615.75	-51.81	790.79	740.91	49.88	15.854	
10,500.00	10,362.71	10,900.00	10,503.29	28.00	25.72	105.05	-641.89	-50.17	792.04	741.42	50.62	15.646	
10,550.00	10,390.84	10,938.25	10,503.45	28.43	26.02	102.91	-679.89	-48.08	795.69	744.05	51.64	15.408	
10,600.00	10,415.28	10,973.70	10,503.59	28.89	26.31	100.92	-715.30	-46.49	801.43	748.78	52.66	15.220	
10,650.00	10,435.82	11,010.82	10,503.74	29.39	26.62	98.94	-752.20	-45.18	808.90	755.18	53.71	15.059	
10,700.00	10,452.32	11,048.70	10,503.90	29.91	26.96	97.04	-790.27	-44.20	817.75	762.95	54.80	14.923	
10,750.00	10,464.65	11,087.64	10,504.06	30.45	27.31	95.26	-829.20	-43.59	827.71	771.84	55.87	14.816	
10,800.00	10,472.71	11,133.24	10,504.24	31.02	27.75	93.59	-874.79	-43.23	838.39	781.40	56.99	14.711	
10,850.00	10,478.45	11,181.87	10,504.44	31.60	28.24	92.20	-923.43	-42.87	849.25	791.13	58.12	14.613	
10,864.78	10,478.72	11,196.30	10,504.50	31.78	28.38	91.85	-937.85	-42.76	852.46	794.02	58.44	14.588	
10,900.00	10,476.91	11,230.71	10,504.64	32.18	28.75	91.82	-972.26	-42.51	859.97	800.79	59.17	14.533	
11,000.00	10,477.45	11,328.77	10,505.05	33.26	29.83	91.75	-1,070.32	-41.78	879.54	818.29	61.25	14.360	
11,100.00	10,477.99	11,427.31	10,505.45	34.39	30.98	91.70	-1,168.85	-41.04	896.54	833.10	63.44	14.133	
11,200.00	10,478.53	11,526.26	10,505.86	35.57	32.19	91.85	-1,267.80	-40.30	910.95	845.23	65.73	13.860	

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 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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		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	
11,300.00	10,479.08	11,625.55	10,506.26	38.78	33.47	91.61	-1,367.09	-39.56	922.77	854.88	68.09	13.551	
11,400.00	10,479.82	11,725.12	10,506.67	38.01	34.79	91.57	-1,466.66	-38.82	931.99	861.47	70.53	13.215	
11,500.00	10,480.16	11,824.90	10,507.08	39.27	36.17	91.54	-1,566.43	-38.08	938.60	865.60	73.01	12.856	
11,600.00	10,480.70	11,924.82	10,507.49	40.55	37.58	91.52	-1,666.34	-37.33	942.60	867.08	75.52	12.481	
11,686.24	10,481.16	12,011.04	10,507.84	41.66	38.82	91.50	-1,752.57	-36.69	943.95	868.24	77.71	12.147	
11,700.00	10,481.23	12,024.80	10,507.90	41.84	39.03	91.50	-1,766.33	-36.59	944.01	868.90	78.11	12.086	
11,800.00	10,481.77	12,124.80	10,508.31	43.22	40.51	91.49	-1,866.32	-35.84	944.44	863.40	81.05	11.853	
11,900.00	10,482.31	12,224.80	10,508.72	44.63	42.01	91.48	-1,966.32	-35.09	944.88	860.84	84.04	11.243	
12,000.00	10,482.84	12,324.80	10,509.13	46.06	43.55	91.47	-2,066.31	-34.35	945.31	858.23	87.09	10.855	
12,100.00	10,483.38	12,424.80	10,509.54	47.53	45.10	91.47	-2,166.31	-33.60	945.75	855.57	90.18	10.488	
12,200.00	10,483.92	12,524.80	10,509.95	49.01	46.67	91.46	-2,266.31	-32.86	946.18	852.87	93.31	10.140	
12,300.00	10,484.45	12,624.80	10,510.36	50.52	48.27	91.45	-2,366.30	-32.11	946.61	850.14	96.48	9.812	
12,400.00	10,484.99	12,724.80	10,510.77	52.05	49.88	91.44	-2,466.30	-31.37	947.05	847.37	99.68	9.501	
12,500.00	10,485.53	12,824.80	10,511.18	53.60	51.50	91.43	-2,566.29	-30.62	947.48	844.57	102.92	9.206	
12,600.00	10,486.06	12,924.79	10,511.59	55.16	53.14	91.42	-2,666.29	-29.87	947.92	841.74	106.18	8.928	
12,700.00	10,486.60	13,024.79	10,512.00	56.74	54.78	91.42	-2,766.28	-29.13	948.35	838.89	109.46	8.664	
12,800.00	10,487.13	13,124.79	10,512.41	58.33	56.45	91.41	-2,866.28	-28.38	948.79	836.01	112.77	8.413	
12,900.00	10,487.67	13,224.79	10,512.82	59.94	58.12	91.40	-2,966.27	-27.64	949.22	833.12	116.10	8.176	
13,000.00	10,488.21	13,324.79	10,513.23	61.56	59.80	91.39	-3,066.27	-26.89	949.65	830.20	119.45	7.950	
13,100.00	10,488.74	13,424.79	10,513.64	63.19	61.48	91.38	-3,166.26	-26.15	950.09	827.27	122.82	7.736	
13,200.00	10,489.28	13,524.79	10,514.05	64.84	63.18	91.37	-3,266.26	-25.40	950.52	824.32	126.21	7.532	
13,300.00	10,489.82	13,624.79	10,514.46	66.49	64.88	91.37	-3,366.25	-24.65	950.96	821.35	129.60	7.337	
13,400.00	10,490.35	13,724.79	10,514.87	68.15	66.59	91.36	-3,466.25	-23.91	951.39	818.37	133.02	7.152	
13,500.00	10,490.89	13,824.79	10,515.28	69.82	68.31	91.35	-3,566.24	-23.16	951.82	815.38	136.44	6.978	
13,600.00	10,491.43	13,924.78	10,515.69	71.49	70.03	91.34	-3,666.24	-22.42	952.26	812.38	139.88	6.808	
13,700.00	10,491.96	14,024.78	10,516.10	73.18	71.76	91.33	-3,766.24	-21.67	952.69	809.36	143.33	6.647	
13,800.00	10,492.50	14,124.78	10,516.51	74.87	73.49	91.32	-3,866.23	-20.93	953.13	806.34	146.79	6.493	
13,900.00	10,493.04	14,224.78	10,516.92	76.57	75.23	91.32	-3,966.23	-20.18	953.56	803.30	150.26	6.346	
14,000.00	10,493.57	14,324.78	10,517.33	78.27	76.97	91.31	-4,066.22	-19.43	954.00	800.26	153.74	6.205	
14,100.00	10,494.11	14,424.78	10,517.74	79.98	78.72	91.30	-4,166.22	-18.69	954.43	797.21	157.22	6.071	
14,200.00	10,494.65	14,524.78	10,518.15	81.69	80.46	91.29	-4,266.21	-17.94	954.87	794.15	160.72	5.941	
14,300.00	10,495.18	14,624.78	10,518.56	83.41	82.22	91.28	-4,366.21	-17.20	955.30	791.08	164.22	5.817	
14,400.00	10,495.72	14,724.78	10,518.97	85.13	83.97	91.28	-4,466.20	-16.45	955.73	788.01	167.72	5.698	
14,500.00	10,496.25	14,824.77	10,519.38	86.86	85.73	91.27	-4,566.20	-15.71	956.17	784.93	171.24	5.584	
14,600.00	10,496.79	14,924.77	10,519.79	88.59	87.49	91.26	-4,666.19	-14.96	956.60	781.85	174.76	5.474	
14,700.00	10,497.33	15,024.77	10,520.20	90.33	89.26	91.25	-4,766.19	-14.21	957.04	778.75	178.28	5.368	
14,800.00	10,497.86	15,124.77	10,520.61	92.07	91.03	91.24	-4,866.18	-13.47	957.47	775.66	181.82	5.266	
14,900.00	10,498.40	15,224.77	10,521.01	93.81	92.80	91.23	-4,966.18	-12.72	957.91	772.56	185.35	5.168	
15,000.00	10,498.94	15,324.77	10,521.42	95.56	94.57	91.23	-5,066.17	-11.98	958.34	769.45	188.89	5.073	
15,100.00	10,499.47	15,424.77	10,521.83	97.31	96.34	91.22	-5,166.17	-11.23	958.78	766.34	192.44	4.982	
15,200.00	10,500.01	15,524.77	10,522.24	99.06	98.12	91.21	-5,266.17	-10.48	959.21	763.22	195.99	4.894	
15,300.00	10,500.55	15,624.77	10,522.65	100.82	99.90	91.20	-5,366.16	-9.74	959.65	760.10	199.54	4.809	
15,384.54	10,501.00	15,709.14	10,523.00	102.30	101.40	91.20	-5,450.53	-9.11	960.01	757.47	202.55	4.740	

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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 - 2H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-AD													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	Offset	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	1.00	1.00	0.00	0.00	-90.44	-0.38	-49.94	49.94	49.77	0.17	292.359	
100.00	100.00	101.00	101.00	0.08	0.09	-90.44	-0.38	-49.94	49.94	49.32	0.62	80.505	
200.00	200.00	201.00	201.00	0.31	0.31	-90.44	-0.38	-49.94	49.94	48.87	1.07	46.679	
300.00	300.00	301.00	301.00	0.53	0.54	-90.44	-0.38	-49.94	49.94	48.42	1.52	32.869	
400.00	400.00	401.00	401.00	0.76	0.76	-90.44	-0.38	-49.94	49.94	47.97	1.97	25.364	
500.00	500.00	501.00	501.00	0.98	0.99	-90.44	-0.38	-49.94	49.94	47.52	2.42	20.650	
600.00	600.00	601.00	601.00	1.21	1.21	-90.44	-0.38	-49.94	49.94	47.07	2.87	17.413	
700.00	700.00	701.00	701.00	1.43	1.44	-90.44	-0.38	-49.94	49.94	46.62	3.32	15.054	
800.00	800.00	801.00	801.00	1.66	1.66	-90.44	-0.38	-49.94	49.94	46.17	3.77	13.257	
900.00	900.00	901.00	901.00	1.88	1.88	-90.44	-0.38	-49.94	49.94	45.72	4.22	11.844	
1,000.00	1,000.00	1,001.00	1,001.00	2.11	2.11	-90.44	-0.38	-49.94	49.94	45.28	4.67	10.703	
1,100.00	1,100.00	1,101.00	1,101.00	2.33	2.33	-90.44	-0.38	-49.94	49.94	44.83	5.12	9.762	
1,200.00	1,200.00	1,201.00	1,201.00	2.56	2.56	-90.44	-0.38	-49.94	49.94	44.38	5.57	8.974	
1,300.00	1,300.00	1,301.00	1,301.00	2.78	2.78	-90.44	-0.38	-49.94	49.94	43.93	6.01	8.303	
1,400.00	1,400.00	1,401.00	1,401.00	3.01	3.01	-90.44	-0.38	-49.94	49.94	43.48	6.46	7.726	
1,500.00	1,500.00	1,501.00	1,501.00	3.23	3.23	-90.44	-0.38	-49.94	49.94	43.03	6.91	7.223	
1,600.00	1,600.00	1,601.00	1,601.00	3.46	3.46	-90.44	-0.38	-49.94	49.94	42.58	7.36	6.782	
1,700.00	1,700.00	1,701.00	1,701.00	3.68	3.68	-90.44	-0.38	-49.94	49.94	42.13	7.81	6.392	
1,800.00	1,800.00	1,801.00	1,801.00	3.91	3.91	-90.44	-0.38	-49.94	49.94	41.68	8.26	6.044	
1,900.00	1,900.00	1,901.00	1,901.00	4.13	4.13	-90.44	-0.38	-49.94	49.94	41.23	8.71	5.733	
2,000.00	2,000.00	2,001.00	2,001.00	4.35	4.36	-90.44	-0.38	-49.94	49.94	40.78	9.16	5.451	
2,100.00	2,100.00	2,101.00	2,101.00	4.58	4.58	-90.44	-0.38	-49.94	49.94	40.33	9.61	5.196	
2,200.00	2,200.00	2,201.00	2,201.00	4.80	4.81	-90.44	-0.38	-49.94	49.94	39.88	10.06	4.964	
2,300.00	2,300.00	2,301.00	2,301.00	5.03	5.03	-90.44	-0.38	-49.94	49.94	39.43	10.51	4.752	
2,400.00	2,400.00	2,401.00	2,401.00	5.25	5.26	-90.44	-0.38	-49.94	49.94	38.98	10.96	4.557	
2,500.00	2,500.00	2,501.00	2,501.00	5.48	5.48	-90.44	-0.38	-49.94	49.94	38.53	11.41	4.377	
2,600.00	2,600.00	2,601.00	2,601.00	5.70	5.71	-90.44	-0.38	-49.94	49.94	38.08	11.86	4.211	
2,700.00	2,700.00	2,701.00	2,701.00	5.93	5.93	-90.44	-0.38	-49.94	49.94	37.63	12.31	4.058	
2,800.00	2,800.00	2,801.00	2,801.00	6.15	6.16	-90.44	-0.38	-49.94	49.94	37.18	12.76	3.915	
2,900.00	2,900.00	2,901.00	2,901.00	6.38	6.38	-90.44	-0.38	-49.94	49.94	36.73	13.21	3.781	
3,000.00	3,000.00	3,001.00	3,001.00	6.60	6.60	-90.44	-0.38	-49.94	49.94	36.28	13.66	3.657	
3,100.00	3,100.00	3,101.00	3,101.00	6.83	6.83	-90.44	-0.38	-49.94	49.94	35.84	14.11	3.540	
3,200.00	3,200.00	3,201.00	3,201.00	7.05	7.05	-90.44	-0.38	-49.94	49.94	35.39	14.56	3.431	
3,300.00	3,300.00	3,301.00	3,301.00	7.28	7.28	-90.44	-0.38	-49.94	49.94	34.94	15.01	3.328	
3,400.00	3,400.00	3,401.00	3,401.00	7.50	7.50	-90.44	-0.38	-49.94	49.94	34.49	15.45	3.231	
3,500.00	3,500.00	3,501.00	3,501.00	7.73	7.73	-90.44	-0.38	-49.94	49.94	34.04	15.90	3.140	
3,600.00	3,600.00	3,601.00	3,601.00	7.95	7.95	-90.44	-0.38	-49.94	49.94	33.59	16.35	3.054	
3,700.00	3,700.00	3,701.00	3,701.00	8.18	8.18	-90.44	-0.38	-49.94	49.94	33.14	16.80	2.972	
3,800.00	3,800.00	3,801.00	3,801.00	8.40	8.40	-90.44	-0.38	-49.94	49.94	32.69	17.25	2.895	
3,900.00	3,900.00	3,901.00	3,901.00	8.63	8.63	-90.44	-0.38	-49.94	49.94	32.24	17.70	2.821	
4,000.00	4,000.00	4,001.00	4,001.00	8.85	8.85	-90.44	-0.38	-49.94	49.94	31.79	18.15	2.751	
4,100.00	4,100.00	4,101.00	4,101.00	9.07	9.08	-90.44	-0.38	-49.94	49.94	31.34	18.60	2.685	
4,200.00	4,200.00	4,201.00	4,201.00	9.30	9.30	-90.44	-0.38	-49.94	49.94	30.89	19.05	2.621	
4,300.00	4,300.00	4,301.00	4,301.00	9.52	9.53	-90.44	-0.38	-49.94	49.94	30.44	19.50	2.561	
4,400.00	4,400.00	4,401.00	4,401.00	9.75	9.75	-90.44	-0.38	-49.94	49.94	29.99	19.95	2.503	
4,500.00	4,500.00	4,501.00	4,501.00	9.97	9.98	-90.44	-0.38	-49.94	49.94	29.54	20.40	2.448	
4,600.00	4,600.00	4,601.00	4,601.00	10.20	10.20	-90.44	-0.38	-49.94	49.94	29.09	20.85	2.395	
4,700.00	4,700.00	4,701.00	4,701.00	10.42	10.43	-90.44	-0.38	-49.94	49.94	28.64	21.30	2.345	
4,800.00	4,800.00	4,801.00	4,801.00	10.65	10.65	-90.44	-0.38	-49.94	49.94	28.19	21.75	2.296	
4,900.00	4,900.00	4,901.00	4,901.00	10.87	10.88	-90.44	-0.38	-49.94	49.94	27.74	22.20	2.250	
5,000.00	5,000.00	5,001.00	5,001.00	11.10	11.10	-90.44	-0.38	-49.94	49.94	27.29	22.65	2.205	
5,100.00	5,100.00	5,101.01	5,101.01	11.32	11.32	-90.44	-0.38	-49.94	49.94				

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 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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 - 2H - 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		
5,101.97	5,101.97	5,102.99	5,102.99	11.33	11.33	149.58	-0.38	-49.94	49.94	27.29	22.66	2.204	CC	
5,200.00	5,199.99	5,201.75	5,201.74	11.53	11.52	149.05	-1.49	-49.18	50.31	27.27	23.04	2.183	ES, SF	
5,300.00	5,299.91	5,302.47	5,302.38	11.71	11.70	147.61	-4.77	-46.86	51.46	28.08	23.38	2.201		
5,400.00	5,399.69	5,403.16	5,402.84	11.90	11.88	145.36	-10.23	-43.04	53.46	29.75	23.72	2.254		
5,500.00	5,499.27	5,503.75	5,503.00	12.09	12.08	142.50	-17.84	-37.71	56.39	32.34	24.05	2.345		
5,600.00	5,598.57	5,603.62	5,602.33	12.28	12.24	140.47	-26.39	-31.73	60.92	36.54	24.38	2.499		
5,700.00	5,697.54	5,703.40	5,701.56	12.49	12.43	140.16	-34.94	-25.74	67.51	42.80	24.71	2.732		
5,766.67	5,763.29	5,769.84	5,767.63	12.63	12.56	140.70	-40.63	-21.76	73.02	48.09	24.93	2.929		
5,800.00	5,796.11	5,803.03	5,800.64	12.71	12.62	141.11	-43.47	-19.77	76.00	50.95	25.05	3.034		
5,900.00	5,894.60	5,902.62	5,899.68	12.93	12.82	142.15	-51.99	-13.80	84.97	59.53	25.44	3.340		
6,000.00	5,993.08	6,002.21	5,998.72	13.16	13.01	142.99	-60.52	-7.83	93.96	68.13	25.83	3.637		
6,100.00	6,091.56	6,101.79	6,097.77	13.40	13.22	143.69	-69.05	-1.86	102.97	76.74	26.24	3.925		
6,200.00	6,190.04	6,201.38	6,196.81	13.65	13.42	144.27	-77.58	4.11	111.99	85.35	26.65	4.203		
6,300.00	6,288.52	6,300.97	6,295.85	13.90	13.63	144.77	-86.10	10.08	121.02	93.96	27.06	4.472		
6,400.00	6,387.00	6,400.55	6,394.89	14.16	13.85	145.20	-94.63	16.05	130.06	102.58	27.48	4.732		
6,500.00	6,485.48	6,500.14	6,493.93	14.43	14.06	145.57	-103.16	22.03	139.11	111.20	27.91	4.984		
6,600.00	6,583.96	6,599.72	6,592.97	14.70	14.28	145.90	-111.68	28.00	148.16	119.81	28.34	5.227		
6,700.00	6,682.44	6,699.31	6,692.01	14.98	14.50	146.19	-120.21	33.97	157.21	128.43	28.78	5.462		
6,800.00	6,780.92	6,798.90	6,791.05	15.26	14.73	146.45	-128.74	39.94	166.27	137.04	29.22	5.689		
6,900.00	6,879.40	6,898.48	6,890.09	15.55	14.95	146.68	-137.27	45.91	175.33	145.66	29.67	5.909		
7,000.00	6,977.88	6,998.07	6,989.13	15.84	15.18	146.89	-145.79	51.88	184.39	154.27	30.12	6.121		
7,100.00	7,076.36	7,097.66	7,088.17	16.13	15.41	147.07	-154.32	57.85	193.46	162.87	30.58	6.326		
7,200.00	7,174.85	7,197.24	7,187.21	16.43	15.65	147.25	-162.85	63.82	202.52	171.48	31.04	6.524		
7,300.00	7,273.33	7,298.83	7,286.25	16.74	15.88	147.40	-171.37	69.79	211.59	180.09	31.51	6.716		
7,400.00	7,371.81	7,398.42	7,385.30	17.05	16.12	147.55	-179.90	75.76	220.66	188.69	31.97	6.901		
7,500.00	7,470.29	7,498.00	7,484.34	17.36	16.36	147.68	-188.43	81.73	229.73	197.29	32.45	7.081		
7,600.00	7,568.77	7,595.59	7,583.38	17.67	16.60	147.80	-196.95	87.70	238.81	205.88	32.92	7.254		
7,700.00	7,667.25	7,695.17	7,682.42	17.99	16.84	147.92	-205.48	93.67	247.88	214.48	33.40	7.422		
7,800.00	7,765.73	7,794.76	7,781.46	18.31	17.09	148.02	-214.01	99.64	256.95	223.07	33.88	7.584		
7,900.00	7,864.21	7,894.35	7,880.50	18.63	17.33	148.12	-222.54	105.62	266.03	231.68	34.36	7.742		
8,000.00	7,962.69	7,993.93	7,979.54	18.96	17.58	148.21	-231.06	111.59	275.10	240.25	34.85	7.894		
8,100.00	8,061.17	8,093.52	8,078.58	19.29	17.83	148.30	-239.59	117.56	284.18	248.84	35.34	8.041		
8,200.00	8,159.65	8,193.11	8,177.62	19.62	18.08	148.38	-248.12	123.53	293.26	257.43	35.83	8.184		
8,300.00	8,258.13	8,292.69	8,276.66	19.95	18.33	148.46	-256.64	129.50	302.34	266.01	36.33	8.323		
8,400.00	8,356.61	8,392.28	8,375.70	20.28	18.59	148.53	-265.17	135.47	311.41	274.59	36.82	8.457		
8,500.00	8,455.10	8,491.86	8,474.74	20.62	18.84	148.60	-273.70	141.44	320.49	283.17	37.32	8.587		
8,600.00	8,553.58	8,587.24	8,569.69	20.96	19.08	148.68	-281.05	146.59	330.16	292.36	37.80	8.734		
8,700.00	8,652.06	8,681.89	8,664.11	21.30	19.29	149.32	-286.44	150.36	341.21	302.97	38.24	8.922		
8,800.00	8,750.54	8,776.06	8,758.19	21.64	19.50	150.12	-289.89	152.78	353.71	315.05	38.66	9.149		
8,900.00	8,849.02	8,869.85	8,851.76	21.99	19.69	151.15	-291.44	153.86	367.73	328.67	39.05	9.416		
9,000.00	8,947.50	8,966.39	8,948.50	22.33	19.88	152.37	-291.54	153.93	383.00	343.57	39.43	9.713		
9,100.00	9,045.98	9,064.88	9,046.98	22.68	20.08	153.52	-291.54	153.93	398.51	358.69	39.82	10.007		
9,200.00	9,144.46	9,163.36	9,145.46	23.03	20.28	154.59	-291.54	153.93	414.17	373.96	40.22	10.298		
9,300.00	9,242.94	9,261.84	9,243.94	23.38	20.48	155.58	-291.54	153.93	429.97	389.35	40.62	10.586		
9,400.00	9,341.42	9,360.32	9,342.42	23.73	20.68	156.50	-291.54	153.93	445.87	404.85	41.02	10.870		
9,500.00	9,439.90	9,458.80	9,440.90	24.09	20.89	157.36	-291.54	153.93	461.89	420.46	41.43	11.150		
9,521.67	9,461.24	9,480.14	9,462.24	24.16	20.93	157.53	-291.54	153.93	465.37	423.86	41.52	11.210		
9,600.00	9,538.52	9,557.41	9,539.52	24.41	21.09	158.19	-291.54	153.93	477.26	435.37	41.89	11.394		
9,700.00	9,637.52	9,656.42	9,638.52	24.69	21.30	158.87	-291.54	153.93	490.35	448.01	42.34	11.581		
9,800.00	9,736.86	9,755.76	9,738.92	24.94	21.57	159.90	-297.01	155.09	499.66	456.78	42.88	11.652		
9,900.00	9,836.47	9,855.37	9,838.57	25.17	22.01	155.54	-332.11	162.55	498.99	455.24	43.75	11.404		
9,988.33	9,924.62	10,026.69	9,991.53	25.36	22.47	150.37	-379.70	172.67	492.43	447.68	44.76	11.003		

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 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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 - 2H - 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 (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	Warning
10,000.00	9,936.26	10,039.37	10,002.13	25.39	22.53	137.05		-386.49	174.11	491.43	446.55	44.89	10.948	
10,050.00	9,985.96	10,091.77	10,044.27	25.52	22.81	114.90		-416.94	180.59	487.96	442.47	45.49	10.727	
10,100.00	10,035.04	10,141.41	10,081.40	25.68	23.10	106.80		-449.14	187.43	485.86	439.70	46.16	10.526	
10,149.94	10,083.06	10,188.62	10,113.94	25.86	23.41	101.29		-482.58	194.54	485.17	438.28	46.89	10.348	
10,150.00	10,083.12	10,188.68	10,113.98	25.86	23.41	101.29		-482.63	194.55	485.17	438.28	46.89	10.348	
10,200.00	10,129.84	10,233.93	10,142.42	26.08	23.73	97.07		-517.03	201.86	485.85	438.18	47.67	10.193	
10,250.00	10,174.84	10,277.44	10,167.08	26.32	24.07	93.41		-552.08	209.31	487.84	439.37	48.48	10.063	
10,300.00	10,217.79	10,319.46	10,188.24	26.60	24.41	90.07		-587.58	216.85	491.04	441.75	49.30	9.961	
10,350.00	10,258.34	10,360.18	10,206.16	26.90	24.77	86.96		-623.34	224.46	495.31	445.22	50.10	9.887	
10,400.00	10,296.20	10,400.00	10,221.13	27.24	25.14	84.03		-659.42	232.13	500.50	449.65	50.85	9.843	
10,450.00	10,331.08	10,438.45	10,233.12	27.60	25.52	81.30		-695.15	239.72	506.45	454.91	51.54	9.826	
10,500.00	10,362.71	10,476.25	10,242.49	28.00	25.90	78.71		-730.96	247.33	512.97	460.83	52.14	9.838	
10,550.00	10,390.84	10,513.33	10,249.32	28.43	26.29	76.29		-766.60	254.91	519.91	467.26	52.65	9.874	
10,600.00	10,415.28	10,550.00	10,253.74	28.89	26.69	74.03		-802.21	262.48	527.11	474.04	53.07	9.933	
10,650.00	10,435.82	10,585.65	10,255.80	29.39	27.10	71.95		-837.01	269.87	534.39	481.00	53.39	10.009	
10,700.00	10,452.32	10,625.29	10,256.12	29.91	27.52	69.96		-875.81	278.02	541.51	487.87	53.64	10.095	
10,750.00	10,464.65	10,668.09	10,256.31	30.45	27.97	68.36		-917.77	286.39	547.81	493.90	53.91	10.162	
10,800.00	10,472.71	10,711.81	10,256.50	31.02	28.43	67.28		-960.55	294.42	553.01	498.75	54.26	10.192	
10,850.00	10,476.45	10,755.54	10,256.69	31.60	28.92	66.71		-1,003.81	302.03	556.94	502.16	54.77	10.168	
10,884.78	10,476.72	10,768.54	10,256.75	31.78	29.07	66.64		-1,016.64	304.18	557.84	502.88	54.96	10.151	
10,900.00	10,476.91	10,800.00	10,256.88	32.18	29.42	66.73		-1,047.69	309.22	559.84	504.23	55.61	10.067	
11,000.00	10,477.45	10,887.45	10,257.26	33.26	30.46	66.95		-1,134.21	321.87	565.33	507.86	57.47	9.837	
11,100.00	10,477.99	10,975.26	10,257.65	34.39	31.54	67.16		-1,221.37	332.59	570.54	511.14	59.40	9.605	
11,200.00	10,478.53	11,062.99	10,258.03	35.57	32.65	67.35		-1,308.66	341.28	575.46	514.07	61.39	9.374	
11,300.00	10,479.08	11,150.62	10,258.41	36.78	33.79	67.53		-1,396.03	347.97	580.09	516.67	63.42	9.147	
11,400.00	10,479.62	11,238.17	10,258.79	38.01	34.95	67.69		-1,483.45	352.64	584.42	518.95	65.47	8.927	
11,500.00	10,480.16	11,324.22	10,259.21	39.27	36.28	67.82		-1,579.45	356.08	587.96	520.28	67.67	8.688	
11,600.00	10,480.70	11,434.21	10,259.64	40.55	37.72	67.86		-1,679.37	359.56	589.17	519.25	69.93	8.426	
11,686.24	10,481.16	11,520.45	10,260.02	41.66	38.99	67.80		-1,765.55	362.56	588.27	516.43	71.84	8.189	
11,700.00	10,481.23	11,534.20	10,260.08	41.84	39.19	67.79		-1,779.30	363.04	587.98	515.78	72.21	8.143	
11,800.00	10,481.77	11,634.17	10,260.51	43.22	40.69	67.69		-1,879.21	366.52	585.90	510.98	74.91	7.821	
11,900.00	10,482.31	11,734.15	10,260.95	44.63	42.22	67.60		-1,979.13	370.00	583.81	506.14	77.67	7.516	
12,000.00	10,482.84	11,834.12	10,261.38	46.06	43.77	67.50		-2,079.04	373.48	581.73	501.25	80.48	7.229	
12,100.00	10,483.38	11,934.09	10,261.81	47.53	45.34	67.41		-2,178.95	376.96	579.64	496.32	83.32	6.957	
12,200.00	10,483.92	12,034.07	10,262.25	49.01	46.93	67.31		-2,278.86	380.44	577.56	491.36	86.20	6.700	
12,300.00	10,484.45	12,134.04	10,262.68	50.52	48.54	67.21		-2,378.77	383.92	575.48	486.37	89.11	6.458	
12,400.00	10,484.99	12,234.02	10,263.11	52.05	50.16	67.11		-2,478.69	387.40	573.40	481.36	92.05	6.230	
12,500.00	10,485.53	12,333.99	10,263.55	53.60	51.80	67.02		-2,578.60	390.87	571.33	476.32	95.01	6.013	
12,600.00	10,486.06	12,433.96	10,263.98	55.16	53.45	66.92		-2,678.51	394.35	569.25	471.26	97.99	5.809	
12,700.00	10,486.60	12,533.94	10,264.42	56.74	55.12	66.82		-2,778.42	397.83	567.18	466.18	101.00	5.616	
12,800.00	10,487.13	12,633.91	10,264.85	58.33	56.79	66.71		-2,878.33	401.31	565.11	461.09	104.02	5.433	
12,900.00	10,487.67	12,733.88	10,265.28	59.94	58.48	66.61		-2,978.25	404.79	563.04	455.99	107.06	5.259	
13,000.00	10,488.21	12,833.86	10,265.72	61.56	60.17	66.51		-3,078.16	408.27	560.97	450.87	110.11	5.095	
13,100.00	10,488.74	12,933.83	10,266.15	63.19	61.87	66.41		-3,178.07	411.75	558.91	445.74	113.17	4.939	
13,200.00	10,489.28	13,033.80	10,266.58	64.84	63.58	66.30		-3,277.98	415.23	556.85	440.60	116.24	4.790	
13,300.00	10,489.82	13,133.78	10,267.02	66.49	65.30	66.20		-3,377.89	418.71	554.78	435.48	119.32	4.649	
13,400.00	10,490.35	13,233.75	10,267.45	68.15	67.02	66.09		-3,477.81	422.19	552.72	430.31	122.41	4.515	
13,500.00	10,490.89	13,333.72	10,267.89	69.82	68.75	65.98		-3,577.72	425.67	550.67	425.16	125.51	4.387	
13,600.00	10,491.43	13,433.70	10,268.32	71.49	70.48	65.88		-3,677.63	429.15	548.61	420.00	128.61	4.268	
13,700.00	10,491.96	13,533.67	10,268.75	73.18	72.22	65.77		-3,777.54	432.63	546.56	414.84	131.72	4.149	
13,800.00	10,492.50	13,633.65	10,269.19	74.87	73.96	65.66		-3,877.45	436.10	544.50	409.68	134.83	4.039	
13,900.00	10,493.04	13,733.62	10,269.62	76.57	75.71	65.55		-3,977.37	439.58	542.45	404.51	137.94	3.932	

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-3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Reference Site:	Paloma Blanco 19 Fed	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3H	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 - 2H - 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 Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	10,493.57	13,833.59	10,270.05	78.27	77.47	65.44	-4,077.28	443.06	540.41	399.35	141.06	3.831			
14,100.00	10,494.11	13,933.57	10,270.49	79.98	79.22	65.33	-4,177.19	446.54	538.36	394.18	144.18	3.734			
14,200.00	10,494.85	14,033.54	10,270.92	81.69	80.98	65.21	-4,277.10	450.02	536.32	389.02	147.30	3.641			
14,300.00	10,495.18	14,133.51	10,271.36	83.41	82.75	65.10	-4,377.01	453.50	534.27	383.86	150.42	3.552			
14,400.00	10,495.72	14,233.49	10,271.79	85.13	84.51	64.99	-4,476.93	456.98	532.23	378.70	153.54	3.466			
14,500.00	10,496.25	14,333.46	10,272.22	86.86	86.28	64.87	-4,576.84	460.46	530.20	373.54	156.66	3.384			
14,600.00	10,496.79	14,433.43	10,272.66	88.59	88.06	64.76	-4,676.75	463.94	528.16	368.38	159.78	3.306			
14,700.00	10,497.33	14,533.41	10,273.09	90.33	89.83	64.64	-4,776.66	467.42	526.13	363.23	162.89	3.230			
14,800.00	10,497.86	14,633.38	10,273.52	92.07	91.61	64.52	-4,876.58	470.90	524.10	358.09	166.01	3.157			
14,900.00	10,498.40	14,733.35	10,273.96	93.81	93.39	64.40	-4,976.49	474.38	522.07	352.94	169.12	3.087			
15,000.00	10,498.94	14,833.33	10,274.39	95.58	95.17	64.28	-5,076.40	477.86	520.04	347.81	172.23	3.019			
15,100.00	10,499.47	14,933.30	10,274.83	97.31	96.96	64.16	-5,176.31	481.34	518.02	342.67	175.34	2.954			
15,200.00	10,500.01	15,033.28	10,275.26	99.06	98.74	64.04	-5,276.22	484.81	515.99	337.55	178.45	2.892			
15,300.00	10,500.55	15,133.25	10,275.69	100.82	100.53	63.92	-5,376.14	488.29	513.97	332.43	181.55	2.831			
15,381.22	10,500.98	15,204.12	10,276.00	102.25	101.80	63.83	-5,446.96	490.76	512.44	328.53	183.91	2.786			
15,384.54	10,501.00	15,204.12	10,276.00	102.30	101.80	63.83	-5,446.96	490.76	512.45	328.49	183.96	2.786			

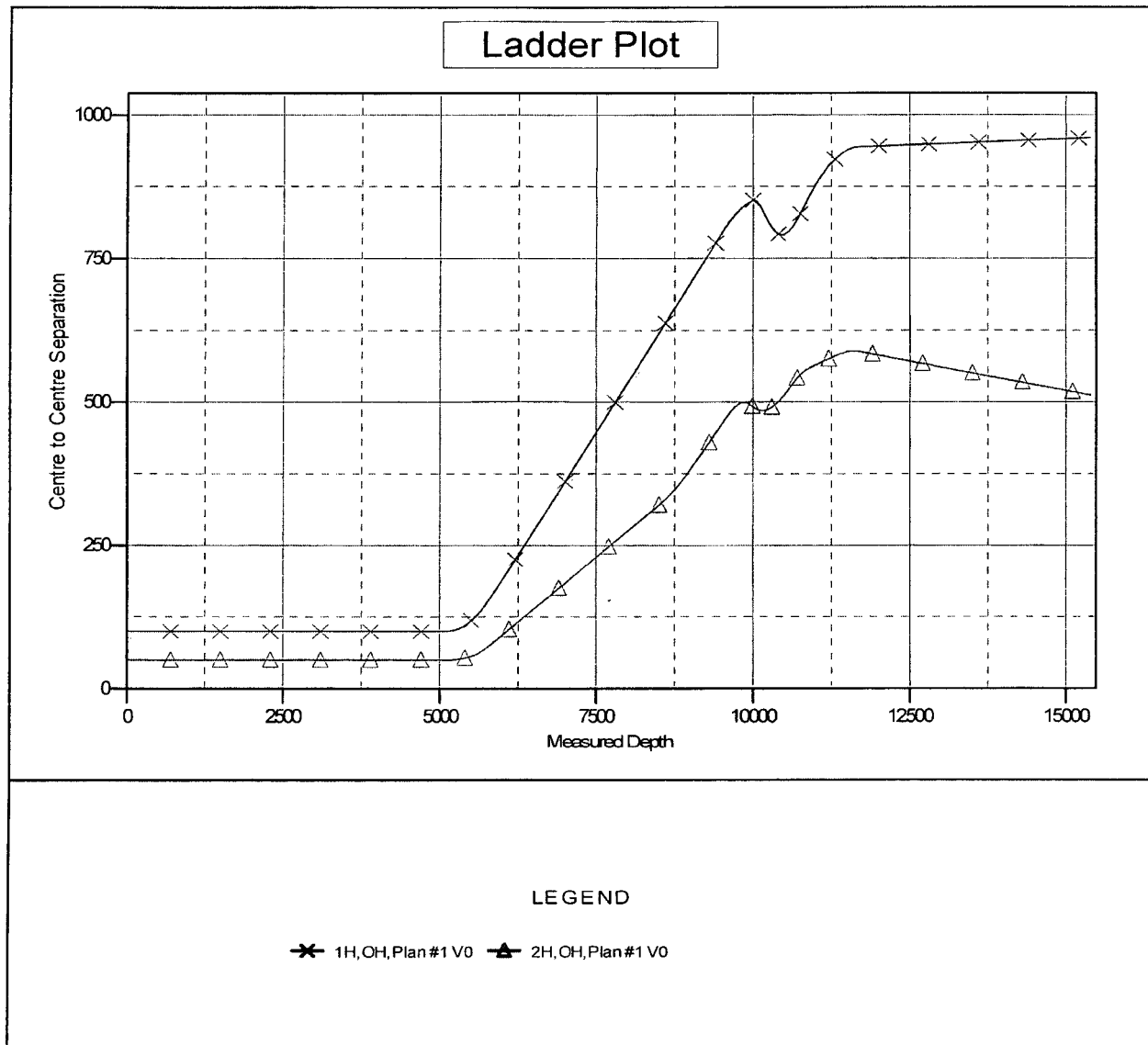
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
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Reference Well:	3H	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 3539.3' GL + 25' RKB @ 3564.30usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 3H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.44°



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 3H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
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Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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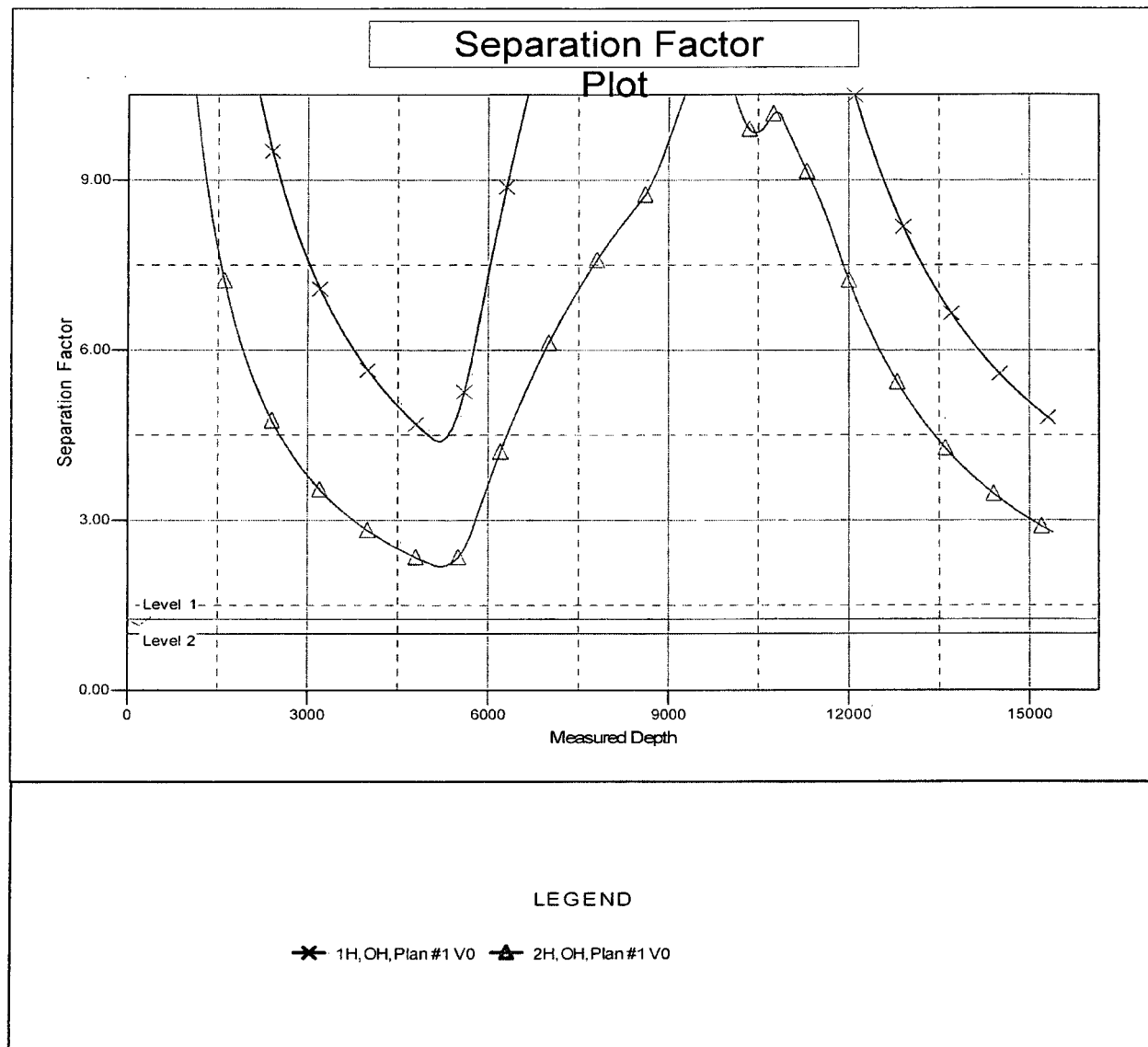
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