

DEVON ENERGY

**Lea County, NM (NAD-83)
Cotton Draw Unit
498H**

OH

Plan: Plan #1

Standard Planning Report

10 August, 2016

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LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
 Company: DEVON ENERGY
 Project: Lea County, NM (NAD-83)
 Site: Cotton Draw Unit
 Well: 498H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 498H
 TVD Reference: 3422.8' GE + 25' KB @ 3447.80usft
 MD Reference: 3422.8' GE + 25' KB @ 3447.80usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	Cotton Draw Unit				
Site Position:		Northing:	414,142.25 usft	Latitude:	32° 8' 13.293 N
From:	Map	Easting:	733,967.43 usft	Longitude:	103° 42' 39.602 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.33 °

Well	498H					
Well Position	+N/-S	24.12 usft	Northing:	414,166.37 usft	Latitude:	32° 8' 13.540 N
	+E/-W	-140.02 usft	Easting:	733,827.41 usft	Longitude:	103° 42' 41.229 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	3,447.80 usft	Ground Level:	3,422.80 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	8/10/2016	6.95	59.88	48,134	

Design	Plan #1					
Audit Notes:						
Version:	Phase:	PLAN	Tie On Depth:	0.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)		
	0.00	0.00	0.00	179.19		

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	
7,637.61	0.00	0.00	7,637.61	0.00	0.00	0.00	0.00	0.00	0.00	
8,529.31	89.17	179.19	8,210.50	-564.60	7.94	10.00	10.00	0.00	179.19	
12,774.67	89.17	179.19	8,272.00	-4,809.10	67.61	0.00	0.00	0.00	0.00	PBHL (CDU 498H)

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (CDU 498H)									
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
655.00	0.00	0.00	655.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSTLER									
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
958.00	0.00	0.00	958.00	0.00	0.00	0.00	0.00	0.00	0.00
SALADO									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,178.00	0.00	0.00	4,178.00	0.00	0.00	0.00	0.00	0.00	0.00
BASE SALT									
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
4,413.00	0.00	0.00	4,413.00	0.00	0.00	0.00	0.00	0.00	0.00
DELAWARE									

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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)
4,451.00	0.00	0.00	4,451.00	0.00	0.00	0.00	0.00	0.00	0.00
BELL CANYON									
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,381.00	0.00	0.00	5,381.00	0.00	0.00	0.00	0.00	0.00	0.00
CHERRY CANYON									
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,738.00	0.00	0.00	6,738.00	0.00	0.00	0.00	0.00	0.00	0.00
BRUSHY CANYON									
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,637.61	0.00	0.00	7,637.61	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10° DLS - KOP (CDU 498H)									
7,650.00	1.24	179.19	7,650.00	-0.13	0.00	0.13	10.00	10.00	0.00
7,700.00	6.24	179.19	7,699.88	-3.39	0.05	3.39	10.00	10.00	0.00
7,750.00	11.24	179.19	7,749.28	-10.99	0.15	10.99	10.00	10.00	0.00
7,800.00	16.24	179.19	7,797.83	-22.86	0.32	22.86	10.00	10.00	0.00
7,850.00	21.24	179.19	7,845.17	-38.91	0.55	38.92	10.00	10.00	0.00
7,900.00	26.24	179.19	7,890.92	-59.04	0.83	59.04	10.00	10.00	0.00
7,950.00	31.24	179.19	7,934.75	-83.07	1.17	83.07	10.00	10.00	0.00
7,987.93	35.03	179.19	7,966.50	-103.79	1.46	103.80	10.00	10.00	0.00
MADERA									
8,000.00	36.24	179.19	7,976.32	-110.83	1.56	110.84	10.00	10.00	0.00
8,050.00	41.24	179.19	8,015.30	-142.10	2.00	142.12	10.00	10.00	0.00
8,100.00	46.24	179.19	8,051.42	-176.66	2.48	176.67	10.00	10.00	0.00
8,150.00	51.24	179.19	8,084.38	-214.23	3.01	214.25	10.00	10.00	0.00

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8,169.50	53.19	179.19	8,096.33	-229.64	3.23	229.66	10.00	10.00	0.00
BRUSHY CANYON LWR									
8,200.00	56.24	179.19	8,113.94	-254.53	3.58	254.55	10.00	10.00	0.00
8,250.00	61.24	179.19	8,139.88	-297.25	4.18	297.28	10.00	10.00	0.00
8,300.00	66.24	179.19	8,162.00	-342.07	4.81	342.10	10.00	10.00	0.00
8,324.21	68.66	179.19	8,171.28	-364.42	5.12	364.46	10.00	10.00	0.00
BRUSHY CANYON LWR D - POE (CDU 498H)									
8,350.00	71.24	179.19	8,180.12	-388.65	5.46	388.69	10.00	10.00	0.00
8,400.00	76.24	179.19	8,194.12	-436.63	6.14	436.67	10.00	10.00	0.00
8,450.00	81.24	179.19	8,203.88	-485.65	6.83	485.69	10.00	10.00	0.00
8,500.00	86.24	179.19	8,209.33	-535.33	7.53	535.38	10.00	10.00	0.00
8,529.31	89.17	179.19	8,210.50	-564.60	7.94	564.66	10.00	10.00	0.00
LP									
8,600.00	89.17	179.19	8,211.53	-635.28	8.93	635.35	0.00	0.00	0.00
8,700.00	89.17	179.19	8,212.98	-735.26	10.34	735.34	0.00	0.00	0.00
8,800.00	89.17	179.19	8,214.42	-835.24	11.74	835.32	0.00	0.00	0.00
8,900.00	89.17	179.19	8,215.87	-935.22	13.15	935.31	0.00	0.00	0.00
9,000.00	89.17	179.19	8,217.32	-1,035.20	14.55	1,035.30	0.00	0.00	0.00
9,100.00	89.17	179.19	8,218.77	-1,135.18	15.96	1,135.29	0.00	0.00	0.00
9,200.00	89.17	179.19	8,220.22	-1,235.16	17.36	1,235.28	0.00	0.00	0.00
9,300.00	89.17	179.19	8,221.67	-1,335.14	18.77	1,335.27	0.00	0.00	0.00
9,400.00	89.17	179.19	8,223.12	-1,435.12	20.18	1,435.26	0.00	0.00	0.00
9,500.00	89.17	179.19	8,224.56	-1,535.10	21.58	1,535.25	0.00	0.00	0.00
9,600.00	89.17	179.19	8,226.01	-1,635.08	22.99	1,635.24	0.00	0.00	0.00
9,700.00	89.17	179.19	8,227.46	-1,735.06	24.39	1,735.23	0.00	0.00	0.00
9,800.00	89.17	179.19	8,228.91	-1,835.04	25.80	1,835.22	0.00	0.00	0.00
9,900.00	89.17	179.19	8,230.36	-1,935.02	27.20	1,935.21	0.00	0.00	0.00
10,000.00	89.17	179.19	8,231.81	-2,035.00	28.61	2,035.20	0.00	0.00	0.00
10,100.00	89.17	179.19	8,233.26	-2,134.98	30.02	2,135.19	0.00	0.00	0.00
10,200.00	89.17	179.19	8,234.70	-2,234.96	31.42	2,235.18	0.00	0.00	0.00
10,300.00	89.17	179.19	8,236.15	-2,334.94	32.83	2,335.17	0.00	0.00	0.00
10,400.00	89.17	179.19	8,237.60	-2,434.92	34.23	2,435.16	0.00	0.00	0.00
10,500.00	89.17	179.19	8,239.05	-2,534.90	35.64	2,535.15	0.00	0.00	0.00
10,600.00	89.17	179.19	8,240.50	-2,634.88	37.04	2,635.14	0.00	0.00	0.00
10,700.00	89.17	179.19	8,241.95	-2,734.85	38.45	2,735.13	0.00	0.00	0.00
10,800.00	89.17	179.19	8,243.40	-2,834.83	39.85	2,835.11	0.00	0.00	0.00
10,900.00	89.17	179.19	8,244.84	-2,934.81	41.26	2,935.10	0.00	0.00	0.00
11,000.00	89.17	179.19	8,246.29	-3,034.79	42.67	3,035.09	0.00	0.00	0.00
11,100.00	89.17	179.19	8,247.74	-3,134.77	44.07	3,135.08	0.00	0.00	0.00
11,200.00	89.17	179.19	8,249.19	-3,234.75	45.48	3,235.07	0.00	0.00	0.00
11,300.00	89.17	179.19	8,250.64	-3,334.73	46.88	3,335.06	0.00	0.00	0.00
11,400.00	89.17	179.19	8,252.09	-3,434.71	48.29	3,435.05	0.00	0.00	0.00
11,500.00	89.17	179.19	8,253.54	-3,534.69	49.69	3,535.04	0.00	0.00	0.00
11,600.00	89.17	179.19	8,254.98	-3,634.67	51.10	3,635.03	0.00	0.00	0.00
11,700.00	89.17	179.19	8,256.43	-3,734.65	52.50	3,735.02	0.00	0.00	0.00
11,800.00	89.17	179.19	8,257.88	-3,834.63	53.91	3,835.01	0.00	0.00	0.00
11,900.00	89.17	179.19	8,259.33	-3,934.61	55.32	3,935.00	0.00	0.00	0.00
12,000.00	89.17	179.19	8,260.78	-4,034.59	56.72	4,034.99	0.00	0.00	0.00
12,100.00	89.17	179.19	8,262.23	-4,134.57	58.13	4,134.98	0.00	0.00	0.00
12,200.00	89.17	179.19	8,263.68	-4,234.55	59.53	4,234.97	0.00	0.00	0.00
12,300.00	89.17	179.19	8,265.12	-4,334.53	60.94	4,334.96	0.00	0.00	0.00
12,400.00	89.17	179.19	8,266.57	-4,434.51	62.34	4,434.95	0.00	0.00	0.00
12,500.00	89.17	179.19	8,268.02	-4,534.49	63.75	4,534.94	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Cotton Draw Unit
Well: 498H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 498H
TVD Reference: 3422.8' GE + 25' KB @ 3447.80usft
MD Reference: 3422.8' GE + 25' KB @ 3447.80usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
12,600.00	89.17	179.19	8,269.47	-4,634.47	65.15	4,634.93	0.00	0.00	0.00
12,700.00	89.17	179.19	8,270.92	-4,734.45	66.56	4,734.92	0.00	0.00	0.00
12,774.67	89.17	179.19	8,272.00	-4,809.10	67.61	4,809.58	0.00	0.00	0.00
TD - PBHL (CDU 498H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (CDU 498H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	414,166.37	733,827.41	32° 8' 13.540 N	103° 42' 41.229 W
KOP (CDU 498H) - plan hits target center - Point	0.00	0.00	7,637.61	0.00	0.00	414,166.37	733,827.41	32° 8' 13.540 N	103° 42' 41.229 W
POE (CDU 498H) - plan hits target center - Point	0.00	0.00	8,171.28	-364.42	5.12	413,801.95	733,832.53	32° 8' 9.934 N	103° 42' 41.194 W
PBHL (CDU 498H) - plan hits target center - Point	0.00	0.00	8,272.00	-4,809.10	67.61	409,357.27	733,895.02	32° 7' 25.947 N	103° 42' 40.766 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
655.00	655.00	RUSTLER		0.83	179.19
958.00	958.00	SALADO		0.83	179.19
4,178.00	4,178.00	BASE SALT		0.83	179.19
4,413.00	4,413.00	DELAWARE		0.83	179.19
4,451.00	4,451.00	BELL CANYON		0.83	179.19
5,381.00	5,381.00	CHERRY CANYON		0.83	179.19
6,738.00	6,738.00	BRUSHY CANYON		0.83	179.19
7,987.93	7,966.50	MADERA		0.83	179.19
8,169.50	8,096.33	BRUSHY CANYON LWR		0.83	179.19
8,324.21	8,171.28	BRUSHY CANYON LWR D		0.83	179.19

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
7,637.61	7,637.61	0.00	0.00	KOP 10° DLS
8,529.31	8,210.50	-564.60	7.94	LP
12,774.67	8,272.00	-4,809.10	67.61	TD