

DEVON ENERGY

Lea County, NM (NAD-83)

Cotton Draw Unit

451H

OH

Plan: Plan #1

Standard Planning Report

15 August, 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 451H
Company:	DEVON ENERGY	TVD Reference:	3426.2' GE + 25' KB @ 3451.20usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3426.2' GE + 25' KB @ 3451.20usft
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	451H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		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	451H					
Well Position	+N/-S	160.56 usft	Northing:	414,302.81 usft	Latitude:	32° 8' 14.828 N
	+E/-W	939.39 usft	Easting:	734,906.82 usft	Longitude:	103° 42' 28.666 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,451.20 usft	Ground Level:	3,426.20 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/15/2016	6.95	59.88	48,132

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	0.31

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	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,100.00	7.00	90.00	5,098.26	0.00	42.71	1.00	1.00	0.00	90.00	
6,166.42	7.00	90.00	6,156.73	0.00	172.67	0.00	0.00	0.00	0.00	
7,566.42	0.00	0.00	7,553.25	0.00	258.09	0.50	-0.50	0.00	180.00	
7,666.42	0.00	0.00	7,653.25	0.00	258.09	0.00	0.00	0.00	0.00	
8,563.85	89.74	0.31	8,226.20	570.38	261.19	10.00	10.00	0.03	0.31	
13,028.79	89.74	0.31	8,246.20	5,035.21	285.50	0.00	0.00	0.00	0.00	PBHL (CDU 451H)

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: 451H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 451H
 TVD Reference: 3426.2' GE + 25' KB @ 3451.20usft
 MD Reference: 3426.2' GE + 25' KB @ 3451.20usft
 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (CDU 451H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,001.00	0.00	0.00	1,001.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,230.00	0.00	0.00	4,230.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
Nudge									
4,458.00	0.58	90.00	4,458.00	0.00	0.29	0.00	1.00	1.00	0.00

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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)
Delaware									
4,493.00	0.93	90.00	4,493.00	0.00	0.75	0.00	1.00	1.00	0.00
Bell Canyon									
4,500.00	1.00	90.00	4,500.00	0.00	0.87	0.00	1.00	1.00	0.00
4,600.00	2.00	90.00	4,599.96	0.00	3.49	0.02	1.00	1.00	0.00
4,700.00	3.00	90.00	4,699.86	0.00	7.85	0.04	1.00	1.00	0.00
4,800.00	4.00	90.00	4,799.68	0.00	13.96	0.08	1.00	1.00	0.00
4,900.00	5.00	90.00	4,899.37	0.00	21.80	0.12	1.00	1.00	0.00
5,000.00	6.00	90.00	4,998.90	0.00	31.39	0.17	1.00	1.00	0.00
5,100.00	7.00	90.00	5,098.26	0.00	42.71	0.23	1.00	1.00	0.00
Hold									
5,200.00	7.00	90.00	5,197.51	0.00	54.89	0.30	0.00	0.00	0.00
5,300.00	7.00	90.00	5,296.77	0.00	67.08	0.36	0.00	0.00	0.00
5,400.00	7.00	90.00	5,396.02	0.00	79.27	0.43	0.00	0.00	0.00
5,424.16	7.00	90.00	5,420.00	0.00	82.21	0.44	0.00	0.00	0.00
Cherry Canyon									
5,500.00	7.00	90.00	5,495.28	0.00	91.46	0.49	0.00	0.00	0.00
5,600.00	7.00	90.00	5,594.53	0.00	103.64	0.56	0.00	0.00	0.00
5,700.00	7.00	90.00	5,693.79	0.00	115.83	0.63	0.00	0.00	0.00
5,800.00	7.00	90.00	5,793.04	0.00	128.02	0.69	0.00	0.00	0.00
5,900.00	7.00	90.00	5,892.30	0.00	140.20	0.76	0.00	0.00	0.00
6,000.00	7.00	90.00	5,991.55	0.00	152.39	0.82	0.00	0.00	0.00
6,100.00	7.00	90.00	6,090.81	0.00	164.58	0.89	0.00	0.00	0.00
6,166.42	7.00	90.00	6,156.73	0.00	172.67	0.93	0.00	0.00	0.00
Drop									
6,200.00	6.83	90.00	6,190.07	0.00	176.71	0.96	0.50	-0.50	0.00
6,300.00	6.33	90.00	6,289.41	0.00	188.18	1.02	0.50	-0.50	0.00
6,400.00	5.83	90.00	6,388.84	0.00	198.77	1.08	0.50	-0.50	0.00
6,500.00	5.33	90.00	6,488.37	0.00	208.50	1.13	0.50	-0.50	0.00
6,600.00	4.83	90.00	6,587.98	0.00	217.36	1.18	0.50	-0.50	0.00
6,700.00	4.33	90.00	6,687.66	0.00	225.35	1.22	0.50	-0.50	0.00
6,781.56	3.92	90.00	6,769.01	0.00	231.22	1.25	0.50	-0.50	0.00
Brushy Canyon									
6,800.00	3.83	90.00	6,787.40	0.00	232.47	1.26	0.50	-0.50	0.00
6,900.00	3.33	90.00	6,887.21	0.00	238.71	1.29	0.50	-0.50	0.00
7,000.00	2.83	90.00	6,987.06	0.00	244.09	1.32	0.50	-0.50	0.00
7,100.00	2.33	90.00	7,086.96	0.00	248.60	1.35	0.50	-0.50	0.00
7,200.00	1.83	90.00	7,186.89	0.00	252.23	1.36	0.50	-0.50	0.00
7,300.00	1.33	90.00	7,286.85	0.00	254.99	1.38	0.50	-0.50	0.00
7,400.00	0.83	90.00	7,386.84	0.00	256.88	1.39	0.50	-0.50	0.00
7,500.00	0.33	90.00	7,486.83	0.00	257.89	1.40	0.50	-0.50	0.00
7,566.42	0.00	0.00	7,553.25	0.00	258.09	1.40	0.50	-0.50	0.00
Hold									
7,600.00	0.00	0.00	7,586.83	0.00	258.09	1.40	0.00	0.00	0.00
7,666.42	0.00	0.00	7,653.25	0.00	258.09	1.40	0.00	0.00	0.00
KOP 10° DLS - KOP (CDU 451H)									
7,700.00	3.36	0.31	7,686.81	0.98	258.09	2.38	10.00	10.00	0.00
7,750.00	8.36	0.31	7,736.53	6.09	258.12	7.48	10.00	10.00	0.00
7,800.00	13.36	0.31	7,785.62	15.50	258.17	16.90	10.00	10.00	0.00
7,850.00	18.36	0.31	7,833.71	29.16	258.24	30.56	10.00	10.00	0.00
7,900.00	23.36	0.31	7,880.41	46.96	258.34	48.35	10.00	10.00	0.00
7,950.00	28.36	0.31	7,925.39	68.76	258.46	70.15	10.00	10.00	0.00
8,000.00	33.36	0.31	7,968.30	94.39	258.60	95.79	10.00	10.00	0.00

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Planning Report

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Project: Lea County, NM (NAD-83)
Site: Cotton Draw Unit
Well: 451H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 451H
TVD Reference: 3426.2' GE + 25' KB @ 3451.20usft
MD Reference: 3426.2' GE + 25' KB @ 3451.20usft
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)
8,049.69	38.33	0.31	8,008.57	123.48	258.76	124.88	10.00	10.00	0.00
Madera									
8,050.00	38.36	0.31	8,008.81	123.67	258.76	125.07	10.00	10.00	0.00
8,100.00	43.36	0.31	8,046.62	156.37	258.94	157.77	10.00	10.00	0.00
8,150.00	48.36	0.31	8,081.43	192.24	259.13	193.64	10.00	10.00	0.00
8,200.00	53.36	0.31	8,112.98	231.01	259.34	232.41	10.00	10.00	0.00
8,237.19	57.08	0.31	8,134.19	261.55	259.51	262.95	10.00	10.00	0.00
Brushy Canyon LWR									
8,250.00	58.36	0.31	8,141.03	272.37	259.57	273.77	10.00	10.00	0.00
8,300.00	63.36	0.31	8,165.38	316.03	259.81	317.43	10.00	10.00	0.00
8,350.00	68.36	0.31	8,185.82	361.64	260.06	363.04	10.00	10.00	0.00
8,400.00	73.36	0.31	8,202.21	408.86	260.31	410.26	10.00	10.00	0.00
8,417.40	75.10	0.31	8,206.94	425.60	260.40	427.01	10.00	10.00	0.00
POE - Brushy Canyon LWR D - POE (CDU 451H)									
8,450.00	78.36	0.31	8,214.42	457.33	260.58	458.73	10.00	10.00	0.00
8,500.00	83.36	0.31	8,222.36	506.68	260.84	508.08	10.00	10.00	0.00
8,550.00	88.36	0.31	8,225.97	556.53	261.12	557.94	10.00	10.00	0.00
8,563.85	89.74	0.31	8,226.20	570.38	261.19	571.78	10.00	10.00	0.00
LP									
8,600.00	89.74	0.31	8,226.36	606.53	261.39	607.93	0.00	0.00	0.00
8,700.00	89.74	0.31	8,226.81	706.53	261.93	707.93	0.00	0.00	0.00
8,800.00	89.74	0.31	8,227.26	806.52	262.48	807.93	0.00	0.00	0.00
8,900.00	89.74	0.31	8,227.71	906.52	263.02	907.93	0.00	0.00	0.00
9,000.00	89.74	0.31	8,228.16	1,006.52	263.57	1,007.93	0.00	0.00	0.00
9,100.00	89.74	0.31	8,228.60	1,106.52	264.11	1,107.93	0.00	0.00	0.00
9,200.00	89.74	0.31	8,229.05	1,206.51	264.65	1,207.93	0.00	0.00	0.00
9,300.00	89.74	0.31	8,229.50	1,306.51	265.20	1,307.93	0.00	0.00	0.00
9,400.00	89.74	0.31	8,229.95	1,406.51	265.74	1,407.93	0.00	0.00	0.00
9,500.00	89.74	0.31	8,230.40	1,506.51	266.29	1,507.92	0.00	0.00	0.00
9,600.00	89.74	0.31	8,230.84	1,606.50	266.83	1,607.92	0.00	0.00	0.00
9,700.00	89.74	0.31	8,231.29	1,706.50	267.38	1,707.92	0.00	0.00	0.00
9,800.00	89.74	0.31	8,231.74	1,806.50	267.92	1,807.92	0.00	0.00	0.00
9,900.00	89.74	0.31	8,232.19	1,906.50	268.47	1,907.92	0.00	0.00	0.00
10,000.00	89.74	0.31	8,232.64	2,006.49	269.01	2,007.92	0.00	0.00	0.00
10,100.00	89.74	0.31	8,233.08	2,106.49	269.55	2,107.92	0.00	0.00	0.00
10,200.00	89.74	0.31	8,233.53	2,206.49	270.10	2,207.92	0.00	0.00	0.00
10,300.00	89.74	0.31	8,233.98	2,306.49	270.64	2,307.92	0.00	0.00	0.00
10,400.00	89.74	0.31	8,234.43	2,406.48	271.19	2,407.92	0.00	0.00	0.00
10,500.00	89.74	0.31	8,234.87	2,506.48	271.73	2,507.91	0.00	0.00	0.00
10,600.00	89.74	0.31	8,235.32	2,606.48	272.28	2,607.91	0.00	0.00	0.00
10,700.00	89.74	0.31	8,235.77	2,706.48	272.82	2,707.91	0.00	0.00	0.00
10,800.00	89.74	0.31	8,236.22	2,806.47	273.37	2,807.91	0.00	0.00	0.00
10,900.00	89.74	0.31	8,236.67	2,906.47	273.91	2,907.91	0.00	0.00	0.00
11,000.00	89.74	0.31	8,237.11	3,006.47	274.45	3,007.91	0.00	0.00	0.00
11,100.00	89.74	0.31	8,237.56	3,106.47	275.00	3,107.91	0.00	0.00	0.00
11,200.00	89.74	0.31	8,238.01	3,206.46	275.54	3,207.91	0.00	0.00	0.00
11,300.00	89.74	0.31	8,238.46	3,306.46	276.09	3,307.91	0.00	0.00	0.00
11,400.00	89.74	0.31	8,238.91	3,406.46	276.63	3,407.91	0.00	0.00	0.00
11,500.00	89.74	0.31	8,239.35	3,506.46	277.18	3,507.90	0.00	0.00	0.00
11,600.00	89.74	0.31	8,239.80	3,606.45	277.72	3,607.90	0.00	0.00	0.00
11,700.00	89.74	0.31	8,240.25	3,706.45	278.27	3,707.90	0.00	0.00	0.00
11,800.00	89.74	0.31	8,240.70	3,806.45	278.81	3,807.90	0.00	0.00	0.00
11,900.00	89.74	0.31	8,241.14	3,906.45	279.35	3,907.90	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: 451H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 451H
TVD Reference: 3426.2' GE + 25' KB @ 3451.20usft
MD Reference: 3426.2' GE + 25' KB @ 3451.20usft
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)
12,000.00	89.74	0.31	8,241.59	4,006.44	279.90	4,007.90	0.00	0.00	0.00
12,100.00	89.74	0.31	8,242.04	4,106.44	280.44	4,107.90	0.00	0.00	0.00
12,200.00	89.74	0.31	8,242.49	4,206.44	280.99	4,207.90	0.00	0.00	0.00
12,300.00	89.74	0.31	8,242.94	4,306.44	281.53	4,307.90	0.00	0.00	0.00
12,400.00	89.74	0.31	8,243.38	4,406.43	282.08	4,407.90	0.00	0.00	0.00
12,500.00	89.74	0.31	8,243.83	4,506.43	282.62	4,507.89	0.00	0.00	0.00
12,600.00	89.74	0.31	8,244.28	4,606.43	283.17	4,607.89	0.00	0.00	0.00
12,700.00	89.74	0.31	8,244.73	4,706.43	283.71	4,707.89	0.00	0.00	0.00
12,800.00	89.74	0.31	8,245.18	4,806.42	284.25	4,807.89	0.00	0.00	0.00
12,900.00	89.74	0.31	8,245.62	4,906.42	284.80	4,907.89	0.00	0.00	0.00
13,000.00	89.74	0.31	8,246.07	5,006.42	285.34	5,007.89	0.00	0.00	0.00
13,028.79	89.74	0.31	8,246.20	5,035.21	285.50	5,036.68	0.00	0.00	0.00

TD - PBHL (CDU 451H)

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 451H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	414,302.81	734,906.82	32° 8' 14.828 N	103° 42' 28.666 W
KOP (CDU 451H) - plan hits target center - Point	0.00	0.00	7,653.25	0.00	258.09	414,302.81	735,164.90	32° 8' 14.814 N	103° 42' 25.665 W
POE (CDU 451H) - plan hits target center - Point	0.00	0.00	8,206.94	425.60	260.40	414,728.41	735,167.22	32° 8' 19.025 N	103° 42' 25.609 W
PBHL (CDU 451H) - plan hits target center - Point	0.00	0.00	8,246.20	5,035.21	285.50	419,338.02	735,192.32	32° 9' 4.638 N	103° 42' 25.005 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
700.00	789.80	Rustler		0.26	0.31
1,001.00	1,090.80	Salado		0.26	0.31
4,230.00	4,319.80	Base Salt		0.26	0.31
4,458.00	4,547.80	Delaware		0.26	0.31
4,493.00	4,582.80	Bell Canyon		0.26	0.31
5,424.16	5,509.80	Cherry Canyon		0.26	0.31
6,781.56	6,858.81	Brushy Canyon		0.26	0.31
8,049.69	8,098.37	Madera		0.26	0.31
8,237.19	8,223.99	Brushy Canyon LWR		0.26	0.31
8,417.40	8,296.74	Brushy Canyon LWR D		0.26	0.31

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,400.00	4,400.00	0.00	0.00	Nudge
5,100.00	5,098.26	0.00	42.71	Hold
6,166.42	6,156.73	0.00	172.67	Drop
7,566.42	7,553.25	0.00	258.09	Hold
7,666.42	7,653.25	0.00	258.09	KOP 10° DLS
8,417.40	8,206.94	425.61	260.40	POE
8,563.85	8,226.20	570.38	261.19	LP
13,028.79	8,246.20	5,035.21	285.50	TD