



WELL DETAILS: Cable 19S35E16 1H

Northing 607589.15 Easting 808246.45 Latitude 32.667310576 Longitude -103.465976752 Slot



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.29°
Magnetic Field
Strength: 48034.7snT
Dip Angle: 60.46°
Date: 2/22/2019
Model: IGRF2015

PROJECT DETAILS: Lea County NM N83-NM-EZ
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid
Grid Convergence: 0.47° West
KB Elevation: 3821.9+25 @ 3846.90usft
Elevation: 3821.90

Catena Resources Operating, LLC
Project: Lea County NM N83-NM-EZ
Site: Belcher Cable
Well: Cable 19S35E16 1H
Wellbore: 1H
Plan: Plan #2 (Cable 19S35E16 1H/1H)

Section Details

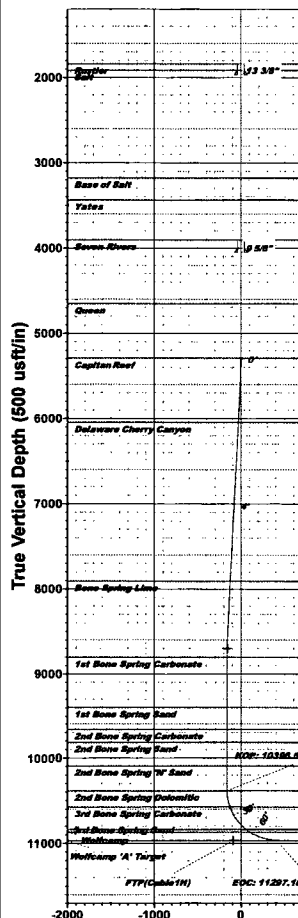
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5305.00	0.00	0.00	5305.00	0.00	0.00	0.00	0.00	0.00
3	5529.85	4.50	49.38	5529.62	5.74	6.69	2.00	49.38	-5.66
4	8484.71	4.50	49.38	8475.38	156.59	182.54	0.00	0.00	-154.35
5	8709.56	0.00	0.00	8700.00	162.33	189.23	2.00	180.00	-160.01
6	10396.56	0.00	0.00	10387.00	162.33	189.23	0.00	0.00	-160.01
7	10996.56	60.00	190.55	10883.20	-119.31	136.78	10.00	190.55	120.97
8	11297.10	88.09	179.30	10965.22	-403.98	114.28	10.00	-22.92	405.34
9	14893.75	88.09	179.30	11085.00	-3998.36	158.44	0.00	0.00	4000.00
10	14941.62	89.05	179.30	11086.19	-4046.21	159.03	2.00	0.23	4047.85
11	15893.89	89.05	179.30	11102.00	-4998.28	170.66	0.00	0.00	4999.99
12	15964.16	90.45	179.30	11102.30	-5068.54	171.52	2.00	0.01	5070.26
13	17893.95	90.45	179.30	11087.00	-6998.13	195.09	0.00	0.00	6999.99
14	17929.02	89.75	179.30	11086.94	-7033.19	195.52	2.00	-179.99	7035.06
15	21192.42	89.75	179.30	11101.00	-10296.32	235.39	0.00	0.00	10298.43

DESIGN TARGET DETAILS

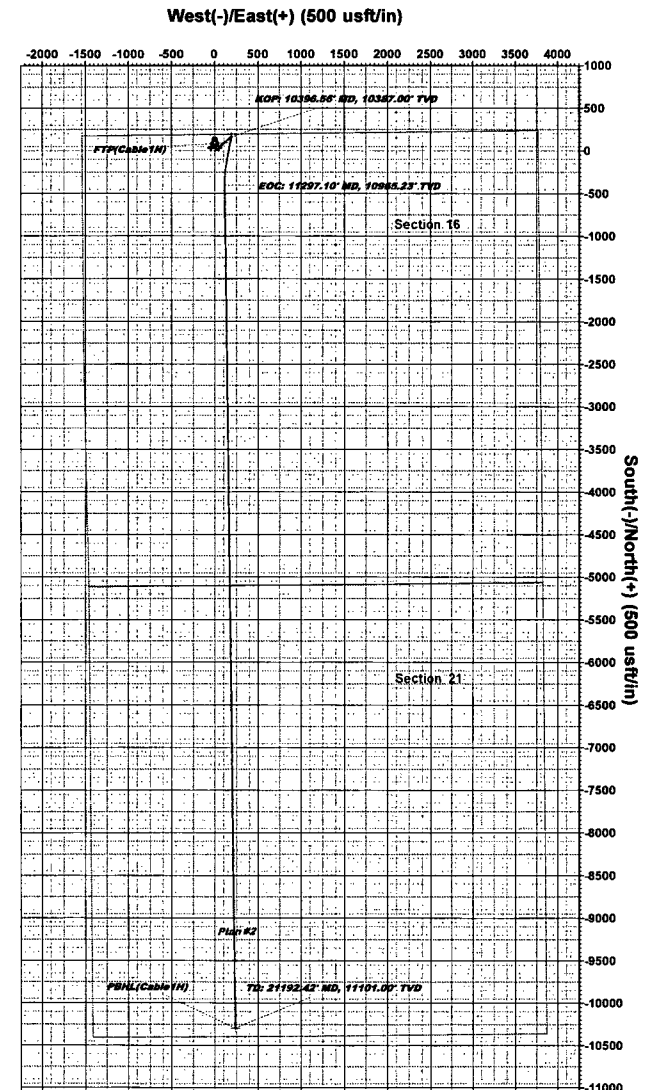
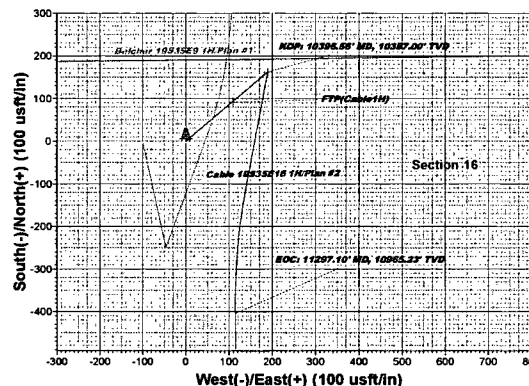
Name	+N/-S	+E/-W	Northing	Easting
EON(Cable1H)	162.33	189.23	607751.48	808435.68
FTP(Cable1H)	91.39	109.20	607680.54	808355.65
PBHL(Cable1H)	-10296.32	235.39	597292.83	808481.84
T04(Cable1H)@4000VS	-3998.36	158.95	603590.79	808405.40
T05(Cable1H)@5000VS	-4998.28	171.08	602590.87	808417.53
T07(Cable1H)@7000VS	-6998.13	195.36	600591.02	808441.81

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1841.00	1841.00	Rustler
1916.00	1916.00	Salt
3180.00	3180.00	Base of Salt
3439.00	3439.00	Yates
3906.00	3906.00	Seven Rivers
4655.00	4655.00	Queen
5294.00	5294.00	Capitan Reef
6047.00	6048.83	Delaware Cherry Canyon
7909.00	7916.58	Bone Spring Lime
8804.00	8813.56	1st Bone Spring Carbonate
9396.00	9405.56	1st Bone Spring Sand
9666.00	9675.56	2nd Bone Spring Carbonate
9817.00	9826.56	2nd Bone Spring Sand
10094.00	10103.56	2nd Bone Spring 'N' Sand
10385.00	10394.56	2nd Bone Spring Dolomitic
10575.00	10588.11	3rd Bone Spring Carbonate
10839.00	10917.38	3rd Bone Spring Sand
10871.00	10973.00	Wolfcamp
10971.00	11470.51	Wolfcamp 'A' Target



Vertical Section at 179.30° (500 usf/in)





Catena Resources Operating, LLC

Lea County NM N83-NM-EZ

Belcher Cable

Cable 19S35E16 1H

1H

Plan: Plan #2

Standard Planning Report

26 February, 2019

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

Project	Lea County NM N83-NM-EZ		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Belcher Cable				
Site Position:		Northing:	607,587.91 usft	Latitude:	32.667309413
From:	Map	Easting:	808,146.45 usft	Longitude:	-103.466301717
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Cable 19S35E16 1H					
Well Position	+N/-S	1.24 usft	Northing:	607,589.15 usft	Latitude:	32.667310576
	+E/-W	100.00 usft	Easting:	808,246.45 usft	Longitude:	-103.465976753
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,821.90 usft

Wellbore	1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/22/2019	6.75	60.46	48,034.65814117

Design	Plan #2				
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	179.30	

Plan Survey Tool Program	Date 2/26/2019				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,191.57 Plan #2 (1H)	MWD		
			MWD - Standard		



Planning Report

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Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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	
5,305.00	0.00	0.00	5,305.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,529.85	4.50	49.38	5,529.62	5.74	6.69	2.00	2.00	0.00	49.38	
8,484.71	4.50	49.38	8,475.38	156.59	182.54	0.00	0.00	0.00	0.00	
8,709.56	0.00	0.00	8,700.00	162.33	189.23	2.00	-2.00	0.00	180.00	EON(Cable1H)
10,396.56	0.00	0.00	10,387.00	162.33	189.23	0.00	0.00	0.00	0.00	
10,996.56	60.00	190.55	10,883.20	-119.31	136.78	10.00	10.00	0.00	190.55	
11,297.10	88.09	179.30	10,965.23	-403.98	114.28	10.00	9.35	-3.74	-22.92	
14,893.75	88.09	179.30	11,085.00	-3,998.36	158.44	0.00	0.00	0.00	0.00	
14,941.62	89.05	179.30	11,086.19	-4,046.21	159.03	2.00	2.00	0.01	0.23	
15,893.89	89.05	179.30	11,102.00	-4,998.28	170.66	0.00	0.00	0.00	0.00	
15,964.16	90.45	179.30	11,102.30	-5,068.54	171.52	2.00	2.00	0.00	0.01	
17,893.95	90.45	179.30	11,087.00	-6,998.13	195.09	0.00	0.00	0.00	0.00	
17,929.02	89.75	179.30	11,086.94	-7,033.19	195.52	2.00	-2.00	0.00	-179.99	
21,192.42	89.75	179.30	11,101.00	-10,296.32	235.39	0.00	0.00	0.00	0.00	PBHL(Cable1H)

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Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,841.00	0.00	0.00	1,841.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,916.00	0.00	0.00	1,916.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt									
1,966.00	0.00	0.00	1,966.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
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
3,180.00	0.00	0.00	3,180.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
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
3,439.00	0.00	0.00	3,439.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
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
3,906.00	0.00	0.00	3,906.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00

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Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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)
4,050.00	0.00	0.00	4,050.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,655.00	0.00	0.00	4,655.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
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
5,294.00	0.00	0.00	5,294.00	0.00	0.00	0.00	0.00	0.00	0.00
Capitan Reef									
5,305.00	0.00	0.00	5,305.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	1.90	49.38	5,399.98	1.03	1.20	-1.01	2.00	2.00	0.00
5,500.00	3.90	49.38	5,499.85	4.32	5.04	-4.26	2.00	2.00	0.00
5,529.85	4.50	49.38	5,529.62	5.74	6.69	-5.66	2.00	2.00	0.00
5,600.00	4.50	49.38	5,599.55	9.32	10.87	-9.19	0.00	0.00	0.00
5,700.00	4.50	49.38	5,699.25	14.43	16.82	-14.22	0.00	0.00	0.00
5,800.00	4.50	49.38	5,798.94	19.53	22.77	-19.25	0.00	0.00	0.00
5,900.00	4.50	49.38	5,898.63	24.64	28.72	-24.29	0.00	0.00	0.00
6,000.00	4.50	49.38	5,998.32	29.74	34.67	-29.32	0.00	0.00	0.00
6,048.83	4.50	49.38	6,047.00	32.24	37.58	-31.77	0.00	0.00	0.00
Delaware Cherry Canyon									
6,100.00	4.50	49.38	6,098.01	34.85	40.62	-34.35	0.00	0.00	0.00
6,200.00	4.50	49.38	6,197.71	39.95	46.57	-39.38	0.00	0.00	0.00
6,300.00	4.50	49.38	6,297.40	45.06	52.53	-44.41	0.00	0.00	0.00
6,400.00	4.50	49.38	6,397.09	50.16	58.48	-49.45	0.00	0.00	0.00
6,500.00	4.50	49.38	6,496.78	55.27	64.43	-54.48	0.00	0.00	0.00
6,600.00	4.50	49.38	6,596.47	60.37	70.38	-59.51	0.00	0.00	0.00
6,700.00	4.50	49.38	6,696.17	65.48	76.33	-64.54	0.00	0.00	0.00
6,800.00	4.50	49.38	6,795.86	70.58	82.28	-69.57	0.00	0.00	0.00
6,900.00	4.50	49.38	6,895.55	75.69	88.23	-74.60	0.00	0.00	0.00
7,000.00	4.50	49.38	6,995.24	80.79	94.18	-79.64	0.00	0.00	0.00
7,100.00	4.50	49.38	7,094.94	85.90	100.13	-84.67	0.00	0.00	0.00
7,200.00	4.50	49.38	7,194.63	91.00	106.08	-89.70	0.00	0.00	0.00
7,300.00	4.50	49.38	7,294.32	96.11	112.03	-94.73	0.00	0.00	0.00
7,400.00	4.50	49.38	7,394.01	101.21	117.99	-99.76	0.00	0.00	0.00
7,500.00	4.50	49.38	7,493.70	106.32	123.94	-104.80	0.00	0.00	0.00
7,600.00	4.50	49.38	7,593.40	111.42	129.89	-109.83	0.00	0.00	0.00
7,700.00	4.50	49.38	7,693.09	116.53	135.84	-114.86	0.00	0.00	0.00
7,800.00	4.50	49.38	7,792.78	121.63	141.79	-119.89	0.00	0.00	0.00
7,900.00	4.50	49.38	7,892.47	126.74	147.74	-124.92	0.00	0.00	0.00
7,916.58	4.50	49.38	7,909.00	127.58	148.73	-125.76	0.00	0.00	0.00
Bone Spring Lime									
8,000.00	4.50	49.38	7,992.17	131.84	153.69	-129.96	0.00	0.00	0.00
8,100.00	4.50	49.38	8,091.86	136.95	159.64	-134.99	0.00	0.00	0.00
8,200.00	4.50	49.38	8,191.55	142.05	165.59	-140.02	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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)
8,300.00	4.50	49.38	8,291.24	147.16	171.54	-145.05	0.00	0.00	0.00
8,400.00	4.50	49.38	8,390.93	152.26	177.50	-150.08	0.00	0.00	0.00
8,484.71	4.50	49.38	8,475.38	156.59	182.54	-154.35	0.00	0.00	0.00
8,500.00	4.19	49.38	8,490.63	157.34	183.42	-155.09	2.00	-2.00	0.00
8,600.00	2.19	49.38	8,590.47	160.97	187.64	-158.66	2.00	-2.00	0.00
8,709.56	0.00	0.00	8,700.00	162.33	189.23	-160.01	2.00	-2.00	0.00
EON(Cable1H)									
8,800.00	0.00	0.00	8,790.44	162.33	189.23	-160.01	0.00	0.00	0.00
8,813.56	0.00	0.00	8,804.00	162.33	189.23	-160.01	0.00	0.00	0.00
1st Bone Spring Carbonate									
8,900.00	0.00	0.00	8,890.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,000.00	0.00	0.00	8,990.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,100.00	0.00	0.00	9,090.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,200.00	0.00	0.00	9,190.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,300.00	0.00	0.00	9,290.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,400.00	0.00	0.00	9,390.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,405.56	0.00	0.00	9,396.00	162.33	189.23	-160.01	0.00	0.00	0.00
1st Bone Spring Sand									
9,500.00	0.00	0.00	9,490.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,600.00	0.00	0.00	9,590.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,675.56	0.00	0.00	9,666.00	162.33	189.23	-160.01	0.00	0.00	0.00
2nd Bone Spring Carbonate									
9,700.00	0.00	0.00	9,690.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.44	162.33	189.23	-160.01	0.00	0.00	0.00
9,826.56	0.00	0.00	9,817.00	162.33	189.23	-160.01	0.00	0.00	0.00
2nd Bone Spring Sand									
9,900.00	0.00	0.00	9,890.44	162.33	189.23	-160.01	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.44	162.33	189.23	-160.01	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.44	162.33	189.23	-160.01	0.00	0.00	0.00
10,103.56	0.00	0.00	10,094.00	162.33	189.23	-160.01	0.00	0.00	0.00
2nd Bone Spring 'N' Sand									
10,200.00	0.00	0.00	10,190.44	162.33	189.23	-160.01	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.44	162.33	189.23	-160.01	0.00	0.00	0.00
10,394.56	0.00	0.00	10,385.00	162.33	189.23	-160.01	0.00	0.00	0.00
2nd Bone Spring Dolomitic									
10,396.56	0.00	0.00	10,387.00	162.33	189.23	-160.01	0.00	0.00	0.00
KOP: 10396.56' MD, 10387.00' TVD									
10,400.00	0.34	190.55	10,390.44	162.32	189.23	-160.00	10.01	10.01	0.00
10,450.00	5.34	190.55	10,440.36	159.88	188.77	-157.56	10.00	10.00	0.00
10,500.00	10.34	190.55	10,489.88	153.18	187.52	-150.87	10.00	10.00	0.00
10,550.00	15.34	190.55	10,538.61	142.25	185.49	-139.97	10.00	10.00	0.00
10,588.11	19.15	190.55	10,575.00	131.14	183.42	-128.89	10.00	10.00	0.00
3rd Bone Spring Carbonate									
10,600.00	20.34	190.55	10,586.19	127.19	182.69	-124.95	10.00	10.00	0.00
10,650.00	25.34	190.55	10,632.26	108.12	179.13	-105.92	10.00	10.00	0.00
10,700.00	30.34	190.55	10,676.45	85.17	174.86	-83.02	10.00	10.00	0.00
10,750.00	35.34	190.55	10,718.45	58.51	169.90	-56.43	10.00	10.00	0.00
10,800.00	40.34	190.55	10,757.92	28.37	164.28	-26.36	10.00	10.00	0.00
10,850.00	45.34	190.55	10,794.57	-5.05	158.06	6.98	10.00	10.00	0.00
10,900.00	50.34	190.55	10,828.12	-41.48	151.27	43.32	10.00	10.00	0.00
FTP(Cable1H)									
10,917.38	52.08	190.55	10,839.00	-54.79	148.79	56.60	10.00	10.00	0.00
3rd Bone Spring Sand									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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)
10,950.00	55.34	190.55	10,858.31	-80.64	143.98	82.39	10.00	10.00	0.00
10,973.00	57.64	190.55	10,871.00	-99.49	140.47	101.20	10.00	10.00	0.00
Wolfcamp									
10,996.56	60.00	190.55	10,883.20	-119.31	136.78	120.97	10.00	10.00	0.00
11,000.00	60.32	190.40	10,884.91	-122.24	136.23	123.90	10.00	9.21	-4.48
11,050.00	64.94	188.26	10,907.89	-166.05	129.06	167.61	10.00	9.25	-4.28
11,100.00	69.60	186.27	10,927.21	-211.78	123.24	213.27	10.00	9.31	-3.97
11,150.00	74.27	184.40	10,942.71	-259.09	118.83	260.52	10.00	9.35	-3.73
11,200.00	78.96	182.62	10,954.28	-307.63	115.86	309.02	10.00	9.38	-3.57
11,250.00	83.66	180.89	10,961.84	-357.01	114.35	358.38	10.00	9.40	-3.45
11,297.10	88.09	179.30	10,965.23	-403.98	114.28	405.34	10.00	9.41	-3.39
EOC: 11297.10' MD, 10965.23' TVD									
11,300.00	88.09	179.30	10,965.32	-406.88	114.31	408.24	0.00	0.00	0.00
11,400.00	88.09	179.30	10,968.65	-506.81	115.54	508.19	0.00	0.00	0.00
11,464.86	88.09	179.30	10,970.81	-571.63	116.34	573.01	0.00	0.00	0.00
T00(Cable1H)@573VS									
11,470.51	88.09	179.30	10,971.00	-577.28	116.41	578.66	0.00	0.00	0.00
Wolfcamp 'A' Target									
11,500.00	88.09	179.30	10,971.98	-606.75	116.77	608.13	0.00	0.00	0.00
11,600.00	88.09	179.30	10,975.31	-706.69	118.00	708.08	0.00	0.00	0.00
11,700.00	88.09	179.30	10,978.64	-806.62	119.22	808.02	0.00	0.00	0.00
11,800.00	88.09	179.30	10,981.97	-906.56	120.45	907.97	0.00	0.00	0.00
11,892.09	88.09	179.30	10,985.04	-998.59	121.58	1,000.00	0.00	0.00	0.00
T01(Cable1H)@1000VS									
11,900.00	88.09	179.30	10,985.30	-1,006.50	121.68	1,007.91	0.00	0.00	0.00
12,000.00	88.09	179.30	10,988.63	-1,106.44	122.91	1,107.85	0.00	0.00	0.00
12,100.00	88.09	179.30	10,991.96	-1,206.37	124.14	1,207.80	0.00	0.00	0.00
12,200.00	88.09	179.30	10,995.29	-1,306.31	125.36	1,307.74	0.00	0.00	0.00
12,300.00	88.09	179.30	10,998.62	-1,406.25	126.59	1,407.69	0.00	0.00	0.00
12,400.00	88.09	179.30	11,001.95	-1,506.18	127.82	1,507.63	0.00	0.00	0.00
12,500.00	88.09	179.30	11,005.28	-1,606.12	129.05	1,607.58	0.00	0.00	0.00
12,600.00	88.09	179.30	11,008.61	-1,706.06	130.28	1,707.52	0.00	0.00	0.00
12,700.00	88.09	179.30	11,011.94	-1,805.99	131.50	1,807.47	0.00	0.00	0.00
12,800.00	88.09	179.30	11,015.27	-1,905.93	132.73	1,907.41	0.00	0.00	0.00
12,892.46	88.09	179.30	11,018.35	-1,998.33	133.87	1,999.82	0.00	0.00	0.00
T02(Cable1H)@2000VS									
12,900.00	88.09	179.30	11,018.60	-2,005.87	133.96	2,007.36	0.00	0.00	0.00
13,000.00	88.09	179.30	11,021.93	-2,105.81	135.19	2,107.30	0.00	0.00	0.00
13,100.00	88.09	179.30	11,025.27	-2,205.74	136.41	2,207.24	0.00	0.00	0.00
13,200.00	88.09	179.30	11,028.60	-2,305.68	137.64	2,307.19	0.00	0.00	0.00
13,300.00	88.09	179.30	11,031.93	-2,405.62	138.87	2,407.13	0.00	0.00	0.00
13,400.00	88.09	179.30	11,035.26	-2,505.55	140.10	2,507.08	0.00	0.00	0.00
13,500.00	88.09	179.30	11,038.59	-2,605.49	141.33	2,607.02	0.00	0.00	0.00
13,600.00	88.09	179.30	11,041.92	-2,705.43	142.55	2,706.97	0.00	0.00	0.00
13,700.00	88.09	179.30	11,045.25	-2,805.36	143.78	2,806.91	0.00	0.00	0.00
13,800.00	88.09	179.30	11,048.58	-2,905.30	145.01	2,906.86	0.00	0.00	0.00
13,892.94	88.09	179.30	11,051.67	-2,998.18	146.15	2,999.74	0.00	0.00	0.00
T03(Cable1H)@3000VS									
13,900.00	88.09	179.30	11,051.91	-3,005.24	146.24	3,006.80	0.00	0.00	0.00
14,000.00	88.09	179.30	11,055.24	-3,105.18	147.47	3,106.75	0.00	0.00	0.00
14,100.00	88.09	179.30	11,058.57	-3,205.11	148.69	3,206.69	0.00	0.00	0.00
14,200.00	88.09	179.30	11,061.90	-3,305.05	149.92	3,306.63	0.00	0.00	0.00
14,300.00	88.09	179.30	11,065.23	-3,404.99	151.15	3,406.58	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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)
14,400.00	88.09	179.30	11,068.56	-3,504.92	152.38	3,506.52	0.00	0.00	0.00
14,500.00	88.09	179.30	11,071.89	-3,604.86	153.61	3,606.47	0.00	0.00	0.00
14,600.00	88.09	179.30	11,075.22	-3,704.80	154.83	3,706.41	0.00	0.00	0.00
14,700.00	88.09	179.30	11,078.55	-3,804.73	156.06	3,806.36	0.00	0.00	0.00
14,800.00	88.09	179.30	11,081.88	-3,904.67	157.29	3,906.30	0.00	0.00	0.00
14,893.75	88.09	179.30	11,085.00	-3,998.36	158.44	4,000.00	0.00	0.00	0.00
14,893.75	88.09	179.30	11,085.00	-3,998.37	158.44	4,000.00	0.00	0.00	0.00
T04(Cable1H)@4000VS									
14,900.00	88.22	179.30	11,085.20	-4,004.61	158.52	4,006.25	2.00	2.00	0.01
14,941.62	89.05	179.30	11,086.19	-4,046.21	159.03	4,047.85	2.00	2.00	0.01
15,000.00	89.05	179.30	11,087.16	-4,104.58	159.74	4,108.23	0.00	0.00	0.00
15,100.00	89.05	179.30	11,088.82	-4,204.56	160.96	4,206.21	0.00	0.00	0.00
15,200.00	89.05	179.30	11,090.48	-4,304.54	162.18	4,306.20	0.00	0.00	0.00
15,300.00	89.05	179.30	11,092.14	-4,404.52	163.40	4,406.18	0.00	0.00	0.00
15,400.00	89.05	179.30	11,093.80	-4,504.50	164.63	4,506.17	0.00	0.00	0.00
15,500.00	89.05	179.30	11,095.46	-4,604.47	165.85	4,606.16	0.00	0.00	0.00
15,600.00	89.05	179.30	11,097.12	-4,704.45	167.07	4,706.14	0.00	0.00	0.00
15,700.00	89.05	179.30	11,098.78	-4,804.43	168.29	4,806.13	0.00	0.00	0.00
15,800.00	89.05	179.30	11,100.44	-4,904.41	169.51	4,906.12	0.00	0.00	0.00
15,893.89	89.05	179.30	11,102.00	-4,998.28	170.66	4,999.99	0.00	0.00	0.00
15,893.89	89.05	179.30	11,102.00	-4,998.29	170.66	5,000.00	0.00	0.00	0.00
T05(Cable1H)@5000VS									
15,900.00	89.17	179.30	11,102.10	-5,004.39	170.73	5,006.10	2.00	2.00	0.00
15,964.16	90.45	179.30	11,102.30	-5,068.54	171.52	5,070.26	2.00	2.00	0.00
16,000.00	90.45	179.30	11,102.02	-5,104.38	171.96	5,106.10	0.00	0.00	0.00
16,100.00	90.45	179.30	11,101.23	-5,204.37	173.18	5,206.10	0.00	0.00	0.00
16,200.00	90.45	179.30	11,100.43	-5,304.36	174.40	5,306.09	0.00	0.00	0.00
16,300.00	90.45	179.30	11,099.64	-5,404.35	175.62	5,406.09	0.00	0.00	0.00
16,400.00	90.45	179.30	11,098.85	-5,504.34	176.84	5,506.09	0.00	0.00	0.00
16,500.00	90.45	179.30	11,098.06	-5,604.33	178.06	5,606.08	0.00	0.00	0.00
16,600.00	90.45	179.30	11,097.26	-5,704.32	179.28	5,706.08	0.00	0.00	0.00
16,700.00	90.45	179.30	11,096.47	-5,804.31	180.51	5,806.08	0.00	0.00	0.00
16,800.00	90.45	179.30	11,095.68	-5,904.29	181.73	5,906.07	0.00	0.00	0.00
16,893.94	90.45	179.30	11,094.93	-5,998.22	182.88	6,000.01	0.00	0.00	0.00
T06(Cable1H)@6000VS									
16,900.00	90.45	179.30	11,094.88	-6,004.28	182.95	6,006.07	0.00	0.00	0.00
17,000.00	90.45	179.30	11,094.09	-6,104.27	184.17	6,106.07	0.00	0.00	0.00
17,100.00	90.45	179.30	11,093.30	-6,204.26	185.39	6,206.06	0.00	0.00	0.00
17,200.00	90.45	179.30	11,092.50	-6,304.25	186.61	6,306.06	0.00	0.00	0.00
17,300.00	90.45	179.30	11,091.71	-6,404.24	187.84	6,406.06	0.00	0.00	0.00
17,400.00	90.45	179.30	11,090.92	-6,504.23	189.06	6,506.06	0.00	0.00	0.00
17,500.00	90.45	179.30	11,090.12	-6,604.22	190.28	6,606.05	0.00	0.00	0.00
17,600.00	90.45	179.30	11,089.33	-6,704.21	191.50	6,706.05	0.00	0.00	0.00
17,700.00	90.45	179.30	11,088.54	-6,804.20	192.72	6,806.05	0.00	0.00	0.00
17,800.00	90.45	179.30	11,087.75	-6,904.19	193.94	6,906.04	0.00	0.00	0.00
17,893.96	90.45	179.30	11,087.00	-6,998.13	195.09	6,999.99	0.00	0.00	0.00
T07(Cable1H)@7000VS									
17,900.00	90.33	179.30	11,086.96	-7,004.18	195.16	7,006.04	2.00	-2.00	0.00
17,929.02	89.75	179.30	11,086.94	-7,033.19	195.52	7,035.06	2.00	-2.00	0.00
18,000.00	89.75	179.30	11,087.24	-7,104.17	196.39	7,106.04	0.00	0.00	0.00
18,100.00	89.75	179.30	11,087.67	-7,204.16	197.61	7,206.04	0.00	0.00	0.00
18,200.00	89.75	179.30	11,088.10	-7,304.15	198.83	7,306.04	0.00	0.00	0.00
18,300.00	89.75	179.30	11,088.54	-7,404.14	200.05	7,406.04	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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)
18,400.00	89.75	179.30	11,088.97	-7,504.14	201.27	7,506.04	0.00	0.00	0.00
18,500.00	89.75	179.30	11,089.40	-7,604.13	202.49	7,606.03	0.00	0.00	0.00
18,600.00	89.75	179.30	11,089.83	-7,704.12	203.72	7,706.03	0.00	0.00	0.00
18,700.00	89.75	179.30	11,090.26	-7,804.11	204.94	7,806.03	0.00	0.00	0.00
18,800.00	89.75	179.30	11,090.69	-7,904.10	206.16	7,906.03	0.00	0.00	0.00
18,893.95	89.75	179.30	11,091.10	-7,998.04	207.31	7,999.98	0.00	0.00	0.00
T08(Cable1H)@8000VS									
18,900.00	89.75	179.30	11,091.12	-8,004.09	207.38	8,006.03	0.00	0.00	0.00
19,000.00	89.75	179.30	11,091.55	-8,104.09	208.60	8,106.03	0.00	0.00	0.00
19,100.00	89.75	179.30	11,091.98	-8,204.08	209.83	8,206.03	0.00	0.00	0.00
19,200.00	89.75	179.30	11,092.41	-8,304.07	211.05	8,306.03	0.00	0.00	0.00
19,300.00	89.75	179.30	11,092.84	-8,404.06	212.27	8,406.03	0.00	0.00	0.00
19,400.00	89.75	179.30	11,093.28	-8,504.05	213.49	8,506.03	0.00	0.00	0.00
19,500.00	89.75	179.30	11,093.71	-8,604.04	214.71	8,606.02	0.00	0.00	0.00
19,600.00	89.75	179.30	11,094.14	-8,704.04	215.93	8,706.02	0.00	0.00	0.00
19,700.00	89.75	179.30	11,094.57	-8,804.03	217.16	8,806.02	0.00	0.00	0.00
19,800.00	89.75	179.30	11,095.00	-8,904.02	218.38	8,906.02	0.00	0.00	0.00
19,893.98	89.75	179.30	11,095.40	-8,997.99	219.53	9,000.00	0.00	0.00	0.00
T09(Cable1H)@9000VS									
19,900.00	89.75	179.30	11,095.43	-9,004.01	219.60	9,006.02	0.00	0.00	0.00
20,000.00	89.75	179.30	11,095.86	-9,104.00	220.82	9,106.02	0.00	0.00	0.00
20,100.00	89.75	179.30	11,096.29	-9,203.99	222.04	9,206.02	0.00	0.00	0.00
20,200.00	89.75	179.30	11,096.72	-9,303.99	223.26	9,306.02	0.00	0.00	0.00
20,300.00	89.75	179.30	11,097.15	-9,403.98	224.49	9,406.02	0.00	0.00	0.00
20,400.00	89.75	179.30	11,097.59	-9,503.97	225.71	9,506.02	0.00	0.00	0.00
20,500.00	89.75	179.30	11,098.02	-9,603.96	226.93	9,606.02	0.00	0.00	0.00
20,600.00	89.75	179.30	11,098.45	-9,703.95	228.15	9,706.01	0.00	0.00	0.00
20,700.00	89.75	179.30	11,098.88	-9,803.94	229.37	9,806.01	0.00	0.00	0.00
20,800.00	89.75	179.30	11,099.31	-9,903.93	230.60	9,906.01	0.00	0.00	0.00
20,893.98	89.75	179.30	11,099.71	-9,997.91	231.74	9,999.99	0.00	0.00	0.00
T10(Cable1H)@10000VS									
20,900.00	89.75	179.30	11,099.74	-10,003.93	231.82	10,006.01	0.00	0.00	0.00
21,000.00	89.75	179.30	11,100.17	-10,103.92	233.04	10,106.01	0.00	0.00	0.00
21,100.00	89.75	179.30	11,100.60	-10,203.91	234.26	10,206.01	0.00	0.00	0.00
21,192.42	89.75	179.30	11,101.00	-10,296.32	235.39	10,298.43	0.00	0.00	0.00
TD: 21192.42' MD, 11101.00' TVD - PBHL(Cable1H) - T11(Cable1H)@10268VS									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

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
EON(Cable1H) - plan hits target center - Point	0.00	0.00	8,700.00	162.33	189.23	607,751.48	808,435.68	32.667752472	-103.465357572
FTP(Cable1H) - plan misses target center by 199.60usft at 10900.00usft MD (10828.12 TVD, -41.48 N, 151.27 E) - Point	0.00	0.00	10,971.00	91.39	109.20	607,680.54	808,355.65	32.667559300	-103.465619500
T04(Cable1H)@4000VS - plan misses target center by 0.51usft at 14893.75usft MD (11085.00 TVD, -3998.37 N, 158.44 E) - Point	0.00	0.00	11,085.00	-3,998.36	158.95	603,590.79	808,405.40	32.656317915	-103.465566474
T07(Cable1H)@7000VS - plan misses target center by 0.27usft at 17893.95usft MD (11087.00 TVD, -6998.13 N, 195.09 E) - Point	0.00	0.00	11,087.00	-6,998.13	195.36	600,591.02	808,441.81	32.648072519	-103.465527830
PBHL(Cable1H) - plan hits target center - Point	0.00	0.00	11,101.00	-10,296.32	235.39	597,292.83	808,481.84	32.639006851	-103.465485337
T05(Cable1H)@5000VS - plan misses target center by 0.42usft at 15893.89usft MD (11102.00 TVD, -4998.29 N, 170.66 E) - Point	0.00	0.00	11,102.00	-4,998.28	171.08	602,590.87	808,417.53	32.653569460	-103.465553616

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,966.00	1,966.00	13 3/8"	13-3/8	17-1/2
4,050.00	4,050.00	9 5/8"	9-5/8	12-1/4

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Cable 19S35E16 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821.9+25 @ 3846.90usft
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821.9+25 @ 3846.90usft
Site:	Belcher Cable	North Reference:	Grid
Well:	Cable 19S35E16 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,841.00	1,841.00	Rustler			
1,916.00	1,916.00	Salt			
3,180.00	3,180.00	Base of Salt			
3,439.00	3,439.00	Yates			
3,906.00	3,906.00	Seven Rivers			
4,655.00	4,655.00	Queen			
5,294.00	5,294.00	Capitan Reef			
6,048.83	6,047.00	Delaware Cherry Canyon			
7,916.58	7,909.00	Bone Spring Lime			
8,813.56	8,804.00	1st Bone Spring Carbonate			
9,405.56	9,396.00	1st Bone Spring Sand			
9,675.56	9,666.00	2nd Bone Spring Carbonate			
9,826.56	9,817.00	2nd Bone Spring Sand			
10,103.56	10,094.00	2nd Bone Spring 'N' Sand			
10,394.56	10,385.00	2nd Bone Spring Dolomitic			
10,588.11	10,575.00	3rd Bone Spring Carbonate			
10,917.38	10,839.00	3rd Bone Spring Sand			
10,973.00	10,871.00	Wolfcamp			
11,470.51	10,971.00	Wolfcamp 'A' Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,396.56	10,387.00	0.00	0.00	KOP: 10396.56' MD, 10387.00' TVD
11,297.10	10,965.22	5.74	6.69	EOC: 11297.10' MD, 10965.23' TVD
21,192.42	11,101.00	156.59	182.54	TD: 21192.42' MD, 11101.00' TVD