



Catena Resources Operating, LLC
Project: Lea County NM N83-NM-EZ
Site: Belcher Cable
Well: Belcher 19S35E9 1H
Wellbore: 1H
Plan: Plan #1 (Belcher 19S35E9 1H/1H)

WELL DETAILS: Belcher 19S35E9 1H

Northing	Easting	Latitude	Longitude	Slot
607587.91	808146.45	32.667309413	-103.466301717	



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.29°

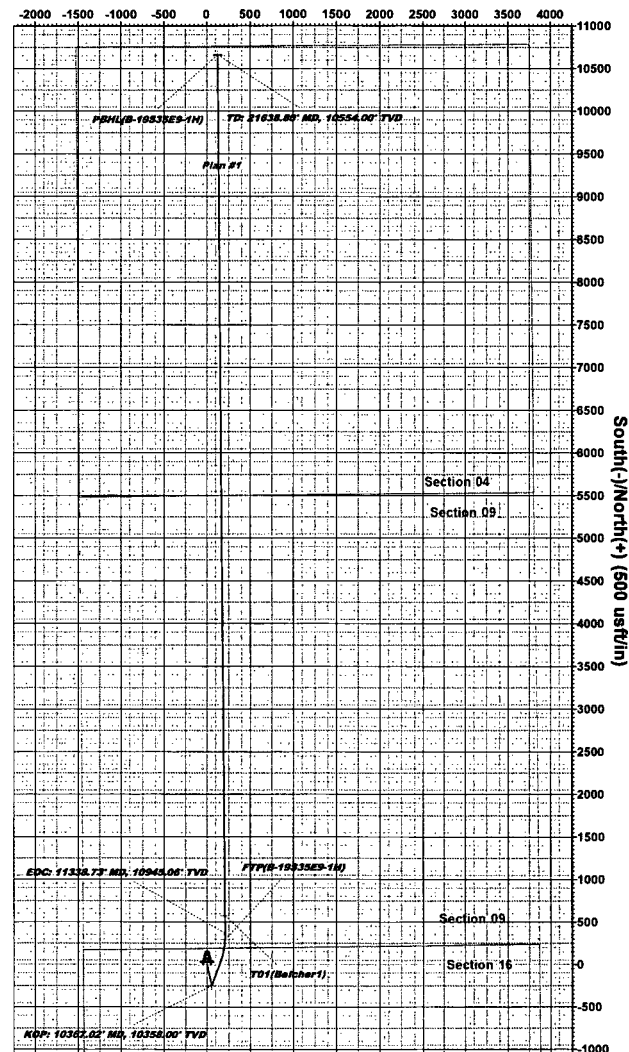
Magnetic Field
Strength: 48034.6snT
Dip Angle: 60.46°
Date: 2/22/2019
Model: IGRF2015

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+25 @ 3846.00usft (KB=25)
Elevation: 3821.00

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	4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00
3	4507.76	4.16	167.83	4507.58	-7.36	1.59	2.00	167.83	-7.37
4	7801.26	4.16	167.83	7792.42	-240.64	51.91	0.00	0.00	-241.06
5	8009.02	0.00	0.00	8000.00	-248.00	53.50	2.00	180.00	-248.43
6	10367.02	0.00	0.00	10358.00	-248.00	53.50	0.00	0.00	-248.43
7	10967.02	60.00	20.00	10854.20	21.20	151.48	10.00	20.00	19.96
8	11338.73	91.63	359.53	10945.06	370.56	206.97	10.00	-35.35	368.85
9	14971.34	91.63	359.53	10842.00	4001.59	177.30	0.00	0.00	4000.00
10	14978.17	91.49	359.53	10841.81	4008.41	177.24	2.00	179.88	4006.83
11	17972.35	91.49	359.53	10764.00	7001.49	152.80	0.00	0.00	7000.00
12	18063.19	93.31	359.53	10760.20	7092.24	152.06	2.00	0.00	7090.76
13	21638.80	93.31	359.53	10554.00	10661.78	122.92	0.00	0.00	10660.42

West(-)/East(+) (500 usft/in)

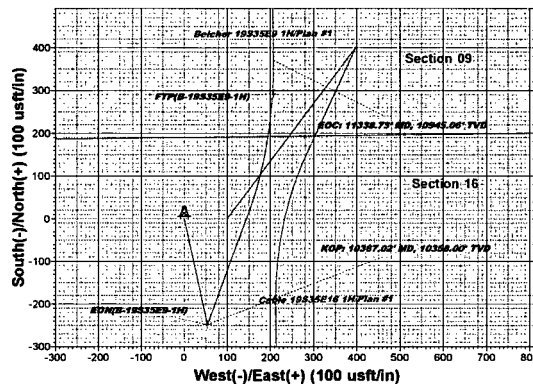


FORMATION TOP DETAILS

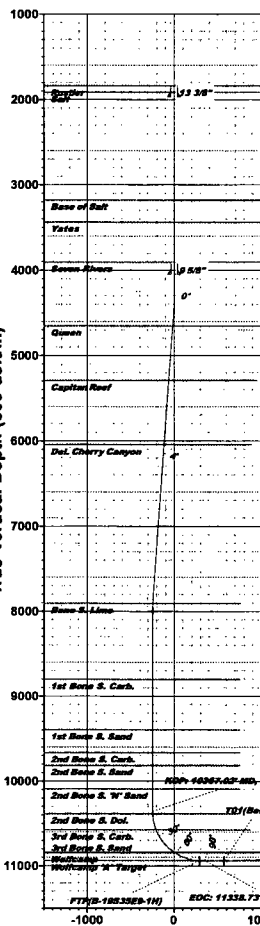
TVDPath	MDPath	Formation
0.00	0.00	Quaternary
1841.00	1841.00	Rustler
1916.00	1916.00	Salt
3180.00	3180.00	Base of Salt
3439.00	3439.00	Yates
3906.00	3906.00	Seven Rivers
4655.00	4655.57	Queen
5294.00	5296.25	Capitan Reef
6047.00	6051.24	Del. Cherry Canyon
7909.00	7918.01	Bone S. Lime
8804.00	8813.02	1st Bone S. Carb.
9396.00	9405.02	1st Bone S. Sand
9666.00	9675.02	2nd Bone S. Carb.
9817.00	9826.02	2nd Bone S. Sand
10094.00	10103.02	2nd Bone S. 'N' Sand
10385.00	10394.03	2nd Bone S. Dol.
10575.00	10589.58	3rd Bone S. Carb.
10839.00	10937.90	3rd Bone S. Sand
10946.00	10951.01	Wolfcamp
10939.00	11228.32	Wolfcamp 'A' Target

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	North	East
EON(B-19S35E9-1H)	-248.00	53.50	607339.91	808198.95
PBHL(B-19S35E9-1H)	10661.78	122.92	618249.69	808269.37
T12(Belcher1)	10655.37	122.97	618243.28	808269.42
T08(Belcher1)	7001.49	152.80	614589.40	808299.25
T05(Belcher1)	4001.59	177.30	611589.50	808323.75
FTP(B-19S35E9-1H)	292.55	207.57	607880.46	808354.02
T01(Belcher1)	574.70	205.28	608162.61	808351.73



Vertical Section at 359.53° (500 usft/in)





Catena Resources Operating. LLC

Lea County NM N83-NM-EZ

Belcher Cable

Belcher 19S35E9 1H

1H

Plan: Plan #1

Standard Planning Report

26 February, 2019

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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	Belcher 19S35E9 1H					
Well Position	+N/-S	0.00 usft	Northing:	607,587.91 usft	Latitude:	32.667309413
	+E/-W	0.00 usft	Easting:	808,146.45 usft	Longitude:	-103.466301717
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,821.00 usft

Wellbore	1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/22/2019	6.75	60.46	48,034.63045711

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	359.53

Plan Survey Tool Program	Date 2/26/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,638.80 Plan #1 (1H)	MWD	
			MWD - Standard	

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Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,507.76	4.16	167.83	4,507.58	-7.36	1.59	2.00	2.00	0.00	167.83	
7,801.26	4.16	167.83	7,792.42	-240.64	51.91	0.00	0.00	0.00	0.00	
8,009.02	0.00	0.00	8,000.00	-248.00	53.50	2.00	-2.00	0.00	180.00	EON(B-19S35E9-1H)
10,367.02	0.00	0.00	10,358.00	-248.00	53.50	0.00	0.00	0.00	0.00	
10,967.02	60.00	20.00	10,854.20	21.20	151.48	10.00	10.00	0.00	20.00	
11,338.73	91.63	359.53	10,945.06	370.56	206.97	10.00	8.51	-5.51	-35.35	
14,971.34	91.63	359.53	10,842.00	4,001.59	177.30	0.00	0.00	0.00	0.00	T05(Belcher1)
14,978.17	91.49	359.53	10,841.81	4,008.41	177.24	2.00	-2.00	0.00	179.88	
17,972.35	91.49	359.53	10,764.00	7,001.49	152.80	0.00	0.00	0.00	0.00	T08(Belcher1)
18,063.19	93.31	359.53	10,760.20	7,092.24	152.06	2.00	2.00	0.00	0.00	
21,638.80	93.31	359.53	10,554.00	10,661.78	122.92	0.00	0.00	0.00	0.00	PBHL(B-19S35E9-1H)



Planning Report

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Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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
Quaternary									
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									

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Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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)
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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	2.00	167.83	4,399.98	-1.71	0.37	-1.71	2.00	2.00	0.00
4,507.76	4.16	167.83	4,507.58	-7.36	1.59	-7.37	2.00	2.00	0.00
4,600.00	4.16	167.83	4,599.58	-13.89	3.00	-13.92	0.00	0.00	0.00
4,655.57	4.16	167.83	4,655.00	-17.83	3.85	-17.86	0.00	0.00	0.00
Queen									
4,700.00	4.16	167.83	4,699.31	-20.98	4.53	-21.01	0.00	0.00	0.00
4,800.00	4.16	167.83	4,799.05	-28.06	6.05	-28.11	0.00	0.00	0.00
4,900.00	4.16	167.83	4,898.79	-35.14	7.58	-35.20	0.00	0.00	0.00
5,000.00	4.16	167.83	4,998.52	-42.23	9.11	-42.30	0.00	0.00	0.00
5,100.00	4.16	167.83	5,098.26	-49.31	10.64	-49.39	0.00	0.00	0.00
5,200.00	4.16	167.83	5,198.00	-56.39	12.17	-56.49	0.00	0.00	0.00
5,296.25	4.16	167.83	5,294.00	-63.21	13.64	-63.32	0.00	0.00	0.00
Capitan Reef									
5,300.00	4.16	167.83	5,297.74	-63.48	13.69	-63.59	0.00	0.00	0.00
5,400.00	4.16	167.83	5,397.47	-70.56	15.22	-70.68	0.00	0.00	0.00
5,500.00	4.16	167.83	5,497.21	-77.64	16.75	-77.78	0.00	0.00	0.00
5,600.00	4.16	167.83	5,596.95	-84.72	18.28	-84.87	0.00	0.00	0.00
5,700.00	4.16	167.83	5,696.68	-91.81	19.81	-91.97	0.00	0.00	0.00
5,800.00	4.16	167.83	5,796.42	-98.89	21.33	-99.06	0.00	0.00	0.00
5,900.00	4.16	167.83	5,896.16	-105.97	22.86	-106.16	0.00	0.00	0.00
6,000.00	4.16	167.83	5,995.90	-113.06	24.39	-113.25	0.00	0.00	0.00
6,051.24	4.16	167.83	6,047.00	-116.69	25.17	-116.89	0.00	0.00	0.00
Del. Cherry Canyon									
6,100.00	4.16	167.83	6,095.63	-120.14	25.92	-120.35	0.00	0.00	0.00
6,200.00	4.16	167.83	6,195.37	-127.22	27.45	-127.44	0.00	0.00	0.00
6,300.00	4.16	167.83	6,295.11	-134.30	28.97	-134.54	0.00	0.00	0.00
6,400.00	4.16	167.83	6,394.84	-141.39	30.50	-141.63	0.00	0.00	0.00
6,500.00	4.16	167.83	6,494.58	-148.47	32.03	-148.73	0.00	0.00	0.00
6,600.00	4.16	167.83	6,594.32	-155.55	33.56	-155.82	0.00	0.00	0.00
6,700.00	4.16	167.83	6,694.06	-162.64	35.08	-162.92	0.00	0.00	0.00
6,800.00	4.16	167.83	6,793.79	-169.72	36.61	-170.01	0.00	0.00	0.00
6,900.00	4.16	167.83	6,893.53	-176.80	38.14	-177.11	0.00	0.00	0.00
7,000.00	4.16	167.83	6,993.27	-183.89	39.67	-184.21	0.00	0.00	0.00
7,100.00	4.16	167.83	7,093.00	-190.97	41.20	-191.30	0.00	0.00	0.00
7,200.00	4.16	167.83	7,192.74	-198.05	42.72	-198.40	0.00	0.00	0.00
7,300.00	4.16	167.83	7,292.48	-205.13	44.25	-205.49	0.00	0.00	0.00
7,400.00	4.16	167.83	7,392.22	-212.22	45.78	-212.59	0.00	0.00	0.00
7,500.00	4.16	167.83	7,491.95	-219.30	47.31	-219.68	0.00	0.00	0.00
7,600.00	4.16	167.83	7,591.69	-226.38	48.84	-226.78	0.00	0.00	0.00
7,700.00	4.16	167.83	7,691.43	-233.47	50.36	-233.87	0.00	0.00	0.00
7,801.26	4.16	167.83	7,792.42	-240.64	51.91	-241.06	0.00	0.00	0.00
7,900.00	2.18	167.83	7,891.00	-245.97	53.06	-246.40	2.00	-2.00	0.00
7,918.01	1.82	167.83	7,909.00	-246.59	53.20	-247.01	2.00	-2.00	0.00
Bone S. Lime									
8,009.02	0.00	0.00	8,000.00	-248.00	53.50	-248.43	2.00	-2.00	0.00
EON(B-19S35E9-1H)									
8,100.00	0.00	0.00	8,090.98	-248.00	53.50	-248.43	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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)
8,200.00	0.00	0.00	8,190.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,300.00	0.00	0.00	8,290.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,400.00	0.00	0.00	8,390.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,500.00	0.00	0.00	8,490.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,600.00	0.00	0.00	8,590.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,700.00	0.00	0.00	8,690.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,800.00	0.00	0.00	8,790.98	-248.00	53.50	-248.43	0.00	0.00	0.00
8,813.02	0.00	0.00	8,804.00	-248.00	53.50	-248.43	0.00	0.00	0.00
1st Bone S. Carb.									
8,900.00	0.00	0.00	8,890.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,000.00	0.00	0.00	8,990.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,100.00	0.00	0.00	9,090.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,200.00	0.00	0.00	9,190.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,300.00	0.00	0.00	9,290.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,400.00	0.00	0.00	9,390.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,405.02	0.00	0.00	9,396.00	-248.00	53.50	-248.43	0.00	0.00	0.00
1st Bone S. Sand									
9,500.00	0.00	0.00	9,490.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,600.00	0.00	0.00	9,590.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,675.02	0.00	0.00	9,666.00	-248.00	53.50	-248.43	0.00	0.00	0.00
2nd Bone S. Carb.									
9,700.00	0.00	0.00	9,690.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.98	-248.00	53.50	-248.43	0.00	0.00	0.00
9,826.02	0.00	0.00	9,817.00	-248.00	53.50	-248.43	0.00	0.00	0.00
2nd Bone S. Sand									
9,900.00	0.00	0.00	9,890.98	-248.00	53.50	-248.43	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.98	-248.00	53.50	-248.43	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.98	-248.00	53.50	-248.43	0.00	0.00	0.00
10,103.02	0.00	0.00	10,094.00	-248.00	53.50	-248.43	0.00	0.00	0.00
2nd Bone S. 'N' Sand									
10,200.00	0.00	0.00	10,190.98	-248.00	53.50	-248.43	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.98	-248.00	53.50	-248.43	0.00	0.00	0.00
10,367.02	0.00	0.00	10,358.00	-248.00	53.50	-248.43	0.00	0.00	0.00
KOP: 10367.02' MD, 10358.00' TVD									
10,394.03	2.70	20.00	10,385.00	-247.40	53.72	-247.83	10.00	10.00	0.00
2nd Bone S. Dol.									
10,400.00	3.30	20.00	10,390.96	-247.11	53.82	-247.54	10.00	10.00	0.00
10,450.00	8.30	20.00	10,440.69	-242.36	55.55	-242.81	10.00	10.00	0.00
10,500.00	13.30	20.00	10,489.79	-233.56	58.75	-234.04	10.00	10.00	0.00
10,550.00	18.30	20.00	10,537.88	-220.78	63.41	-221.29	10.00	10.00	0.00
10,589.58	22.26	20.00	10,575.00	-207.89	68.10	-208.44	10.00	10.00	0.00
3rd Bone S. Carb.									
10,600.00	23.30	20.00	10,584.61	-204.10	69.48	-204.66	10.00	10.00	0.00
10,650.00	28.30	20.00	10,629.61	-183.66	76.92	-184.28	10.00	10.00	0.00
10,700.00	33.30	20.00	10,672.55	-159.61	85.67	-160.31	10.00	10.00	0.00
10,750.00	38.30	20.00	10,713.09	-132.14	95.67	-132.92	10.00	10.00	0.00
10,800.00	43.30	20.00	10,750.93	-101.45	106.84	-102.32	10.00	10.00	0.00
10,850.00	48.30	20.00	10,785.78	-87.77	119.10	-68.75	10.00	10.00	0.00
10,900.00	53.30	20.00	10,817.37	-31.38	132.34	-32.46	10.00	10.00	0.00
10,937.90	57.09	20.00	10,839.00	-2.14	142.99	-3.31	10.00	10.00	0.00
3rd Bone S. Sand									
10,950.00	58.30	20.00	10,845.47	7.47	146.48	6.27	10.00	10.00	0.00
10,951.01	58.40	20.00	10,846.00	8.28	146.78	7.08	10.00	10.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating. LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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)
Wolfcamp									
10,967.02	60.00	20.00	10,854.20	21.20	151.48	19.96	10.00	10.00	0.00
11,000.00	62.71	17.85	10,870.01	48.58	160.86	47.26	10.00	8.21	-6.51
11,050.00	66.87	14.79	10,891.30	91.98	173.55	90.55	10.00	8.33	-6.13
11,100.00	71.09	11.91	10,909.24	137.38	184.31	135.86	10.00	8.44	-5.75
11,150.00	75.35	9.18	10,923.67	184.43	193.05	182.84	10.00	8.52	-5.47
11,200.00	79.64	6.55	10,934.50	232.77	199.72	231.12	10.00	8.58	-5.26
11,228.32	82.08	5.09	10,939.00	260.58	202.56	258.91	10.00	8.62	-5.14
Wolfcamp 'A' Target									
11,250.00	83.95	3.99	10,941.64	282.03	204.26	280.34	10.00	8.63	-5.09
11,260.47	84.86	3.46	10,942.66	292.43	204.94	290.73	10.00	8.64	-5.06
FTP(B-19S35E9-1H)									
11,300.00	88.27	1.47	10,945.03	331.84	206.63	330.14	10.00	8.65	-5.03
11,338.73	91.63	359.53	10,945.06	370.56	206.97	368.85	10.00	8.65	-5.01
EOC: 11338.73' MD, 10945.06' TVD									
11,400.00	91.63	359.53	10,943.32	431.81	206.47	430.10	0.00	0.00	0.00
11,500.00	91.63	359.53	10,940.48	531.76	205.66	530.06	0.00	0.00	0.00
11,542.96	91.63	359.53	10,939.27	574.71	205.30	573.00	0.00	0.00	0.00
T01(Belcher1)									
11,600.00	91.63	359.53	10,937.65	631.72	204.84	630.02	0.00	0.00	0.00
11,700.00	91.63	359.53	10,934.81	731.68	204.02	729.98	0.00	0.00	0.00
11,800.00	91.63	359.53	10,931.97	831.63	203.21	829.94	0.00	0.00	0.00
11,900.00	91.63	359.53	10,929.14	931.59	202.39	929.90	0.00	0.00	0.00
11,970.14	91.63	359.53	10,927.15	1,001.69	201.82	1,000.01	0.00	0.00	0.00
T02(Belcher1)									
12,000.00	91.63	359.53	10,926.30	1,031.54	201.57	1,029.86	0.00	0.00	0.00
12,100.00	91.63	359.53	10,923.46	1,131.50	200.75	1,129.82	0.00	0.00	0.00
12,200.00	91.63	359.53	10,920.63	1,231.46	199.94	1,229.78	0.00	0.00	0.00
12,300.00	91.63	359.53	10,917.79	1,331.41	199.12	1,329.74	0.00	0.00	0.00
12,400.00	91.63	359.53	10,914.95	1,431.37	198.30	1,429.70	0.00	0.00	0.00
12,500.00	91.63	359.53	10,912.11	1,531.33	197.49	1,529.66	0.00	0.00	0.00
12,600.00	91.63	359.53	10,909.28	1,631.28	196.67	1,629.62	0.00	0.00	0.00
12,700.00	91.63	359.53	10,906.44	1,731.24	195.85	1,729.58	0.00	0.00	0.00
12,800.00	91.63	359.53	10,903.60	1,831.20	195.04	1,829.53	0.00	0.00	0.00
12,900.00	91.63	359.53	10,900.77	1,931.15	194.22	1,929.49	0.00	0.00	0.00
12,970.52	91.63	359.53	10,898.76	2,001.64	193.64	1,999.99	0.00	0.00	0.00
T03(Belcher1)									
13,000.00	91.63	359.53	10,897.93	2,031.11	193.40	2,029.45	0.00	0.00	0.00
13,100.00	91.63	359.53	10,895.09	2,131.07	192.59	2,129.41	0.00	0.00	0.00
13,200.00	91.63	359.53	10,892.25	2,231.02	191.77	2,229.37	0.00	0.00	0.00
13,300.00	91.63	359.53	10,889.42	2,330.98	190.95	2,329.33	0.00	0.00	0.00
13,400.00	91.63	359.53	10,886.58	2,430.93	190.14	2,429.29	0.00	0.00	0.00
13,500.00	91.63	359.53	10,883.74	2,530.89	189.32	2,529.25	0.00	0.00	0.00
13,600.00	91.63	359.53	10,880.91	2,630.85	188.50	2,629.21	0.00	0.00	0.00
13,700.00	91.63	359.53	10,878.07	2,730.80	187.68	2,729.17	0.00	0.00	0.00
13,800.00	91.63	359.53	10,875.23	2,830.76	186.87	2,829.13	0.00	0.00	0.00
13,900.00	91.63	359.53	10,872.39	2,930.72	186.05	2,929.09	0.00	0.00	0.00
13,970.69	91.63	359.53	10,870.39	3,001.38	185.47	2,999.75	0.00	0.00	0.00
T04(Belcher1)									
14,000.00	91.63	359.53	10,869.56	3,030.67	185.23	3,029.05	0.00	0.00	0.00
14,100.00	91.63	359.53	10,866.72	3,130.63	184.42	3,129.01	0.00	0.00	0.00
14,200.00	91.63	359.53	10,863.88	3,230.59	183.60	3,228.97	0.00	0.00	0.00
14,300.00	91.63	359.53	10,861.05	3,330.54	182.78	3,328.93	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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	91.63	359.53	10,858.21	3,430.50	181.97	3,428.89	0.00	0.00	0.00
14,500.00	91.63	359.53	10,855.37	3,530.46	181.15	3,528.85	0.00	0.00	0.00
14,600.00	91.63	359.53	10,852.54	3,630.41	180.33	3,628.81	0.00	0.00	0.00
14,700.00	91.63	359.53	10,849.70	3,730.37	179.52	3,728.77	0.00	0.00	0.00
14,800.00	91.63	359.53	10,846.86	3,830.32	178.70	3,828.73	0.00	0.00	0.00
14,900.00	91.63	359.53	10,844.02	3,930.28	177.88	3,928.69	0.00	0.00	0.00
14,971.34	91.63	359.53	10,842.00	4,001.59	177.30	4,000.00	0.00	0.00	0.00
T05(Belcher1)									
14,978.17	91.49	359.53	10,841.81	4,008.41	177.24	4,006.83	2.00	-2.00	0.00
15,000.00	91.49	359.53	10,841.25	4,030.24	177.07	4,028.65	0.00	0.00	0.00
15,100.00	91.49	359.53	10,838.65	4,130.20	176.25	4,128.62	0.00	0.00	0.00
15,200.00	91.49	359.53	10,836.05	4,230.16	175.43	4,228.58	0.00	0.00	0.00
15,300.00	91.49	359.53	10,833.45	4,330.13	174.62	4,328.55	0.00	0.00	0.00
15,400.00	91.49	359.53	10,830.85	4,430.09	173.80	4,428.52	0.00	0.00	0.00
15,500.00	91.49	359.53	10,828.25	4,530.05	172.98	4,528.48	0.00	0.00	0.00
15,600.00	91.49	359.53	10,825.65	4,630.02	172.17	4,628.45	0.00	0.00	0.00
15,700.00	91.49	359.53	10,823.06	4,729.98	171.35	4,728.41	0.00	0.00	0.00
15,800.00	91.49	359.53	10,820.46	4,829.94	170.53	4,828.38	0.00	0.00	0.00
15,900.00	91.49	359.53	10,817.86	4,929.90	169.72	4,928.35	0.00	0.00	0.00
15,971.78	91.49	359.53	10,815.99	5,001.65	169.13	5,000.10	0.00	0.00	0.00
T06(Belcher1)									
16,000.00	91.49	359.53	10,815.26	5,029.87	168.90	5,028.31	0.00	0.00	0.00
16,100.00	91.49	359.53	10,812.66	5,129.83	168.09	5,128.28	0.00	0.00	0.00
16,200.00	91.49	359.53	10,810.06	5,229.79	167.27	5,228.25	0.00	0.00	0.00
16,300.00	91.49	359.53	10,807.46	5,329.76	166.45	5,328.21	0.00	0.00	0.00
16,400.00	91.49	359.53	10,804.86	5,429.72	165.64	5,428.18	0.00	0.00	0.00
16,500.00	91.49	359.53	10,802.26	5,529.68	164.82	5,528.14	0.00	0.00	0.00
16,600.00	91.49	359.53	10,799.67	5,629.65	164.00	5,628.11	0.00	0.00	0.00
16,700.00	91.49	359.53	10,797.07	5,729.61	163.19	5,728.08	0.00	0.00	0.00
16,800.00	91.49	359.53	10,794.47	5,829.57	162.37	5,828.04	0.00	0.00	0.00
16,900.00	91.49	359.53	10,791.87	5,929.53	161.55	5,928.01	0.00	0.00	0.00
16,972.12	91.49	359.53	10,789.99	6,001.62	160.97	6,000.10	0.00	0.00	0.00
T07(Belcher1)									
17,000.00	91.49	359.53	10,789.27	6,029.50	160.74	6,027.98	0.00	0.00	0.00
17,100.00	91.49	359.53	10,786.67	6,129.46	159.92	6,127.94	0.00	0.00	0.00
17,200.00	91.49	359.53	10,784.07	6,229.42	159.11	6,227.91	0.00	0.00	0.00
17,300.00	91.49	359.53	10,781.47	6,329.39	158.29	6,327.87	0.00	0.00	0.00
17,400.00	91.49	359.53	10,778.87	6,429.35	157.47	6,427.84	0.00	0.00	0.00
17,500.00	91.49	359.53	10,776.28	6,529.31	156.66	6,527.81	0.00	0.00	0.00
17,600.00	91.49	359.53	10,773.68	6,629.27	155.84	6,627.77	0.00	0.00	0.00
17,700.00	91.49	359.53	10,771.08	6,729.24	155.02	6,727.74	0.00	0.00	0.00
17,800.00	91.49	359.53	10,768.48	6,829.20	154.21	6,827.71	0.00	0.00	0.00
17,900.00	91.49	359.53	10,765.88	6,929.16	153.39	6,927.67	0.00	0.00	0.00
17,972.35	91.49	359.53	10,764.00	7,001.49	152.80	7,000.00	0.00	0.00	0.00
T08(Belcher1)									
18,000.00	92.04	359.53	10,763.15	7,029.12	152.57	7,027.63	2.00	2.00	0.00
18,063.19	93.31	359.53	10,760.20	7,092.24	152.06	7,090.76	2.00	2.00	0.00
18,100.00	93.31	359.53	10,758.08	7,128.99	151.76	7,127.50	0.00	0.00	0.00
18,200.00	93.31	359.53	10,752.31	7,228.82	150.94	7,227.34	0.00	0.00	0.00
18,300.00	93.31	359.53	10,746.54	7,328.65	150.13	7,327.17	0.00	0.00	0.00
18,400.00	93.31	359.53	10,740.78	7,428.48	149.31	7,427.00	0.00	0.00	0.00
18,500.00	93.31	359.53	10,735.01	7,528.31	148.50	7,526.84	0.00	0.00	0.00
18,600.00	93.31	359.53	10,729.24	7,628.14	147.68	7,626.67	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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)
18,700.00	93.31	359.53	10,723.48	7,727.97	146.87	7,726.50	0.00	0.00	0.00
18,800.00	93.31	359.53	10,717.71	7,827.80	146.05	7,826.34	0.00	0.00	0.00
18,900.00	93.31	359.53	10,711.94	7,927.63	145.24	7,926.17	0.00	0.00	0.00
18,973.29	93.31	359.53	10,707.72	8,000.80	144.64	7,999.34	0.00	0.00	0.00
T09(Belcher1)									
19,000.00	93.31	359.53	10,706.18	8,027.46	144.42	8,026.00	0.00	0.00	0.00
19,100.00	93.31	359.53	10,700.41	8,127.29	143.61	8,125.84	0.00	0.00	0.00
19,200.00	93.31	359.53	10,694.64	8,227.12	142.79	8,225.67	0.00	0.00	0.00
19,300.00	93.31	359.53	10,688.88	8,326.95	141.98	8,325.51	0.00	0.00	0.00
19,400.00	93.31	359.53	10,683.11	8,426.78	141.16	8,425.34	0.00	0.00	0.00
19,500.00	93.31	359.53	10,677.34	8,526.61	140.35	8,525.17	0.00	0.00	0.00
19,600.00	93.31	359.53	10,671.57	8,626.44	139.53	8,625.01	0.00	0.00	0.00
19,700.00	93.31	359.53	10,665.81	8,726.27	138.72	8,724.84	0.00	0.00	0.00
19,800.00	93.31	359.53	10,660.04	8,826.10	137.90	8,824.67	0.00	0.00	0.00
19,900.00	93.31	359.53	10,654.27	8,925.93	137.09	8,924.51	0.00	0.00	0.00
19,975.50	93.31	359.53	10,649.92	9,001.30	136.47	8,999.88	0.00	0.00	0.00
T10(Belcher1)									
20,000.00	93.31	359.53	10,648.51	9,025.76	136.27	9,024.34	0.00	0.00	0.00
20,100.00	93.31	359.53	10,642.74	9,125.59	135.46	9,124.17	0.00	0.00	0.00
20,200.00	93.31	359.53	10,636.97	9,225.42	134.64	9,224.01	0.00	0.00	0.00
20,300.00	93.31	359.53	10,631.21	9,325.25	133.83	9,323.84	0.00	0.00	0.00
20,400.00	93.31	359.53	10,625.44	9,425.08	133.01	9,423.67	0.00	0.00	0.00
20,500.00	93.31	359.53	10,619.67	9,524.91	132.20	9,523.51	0.00	0.00	0.00
20,600.00	93.31	359.53	10,613.91	9,624.74	131.38	9,623.34	0.00	0.00	0.00
20,700.00	93.31	359.53	10,608.14	9,724.57	130.57	9,723.18	0.00	0.00	0.00
20,800.00	93.31	359.53	10,602.37	9,824.40	129.75	9,823.01	0.00	0.00	0.00
20,900.00	93.31	359.53	10,596.61	9,924.23	128.94	9,922.84	0.00	0.00	0.00
20,977.47	93.31	359.53	10,592.14	10,001.57	128.31	10,000.18	0.00	0.00	0.00
T11(Belcher1)									
21,000.00	93.31	359.53	10,590.84	10,024.06	128.12	10,022.68	0.00	0.00	0.00
21,100.00	93.31	359.53	10,585.07	10,123.89	127.31	10,122.51	0.00	0.00	0.00
21,200.00	93.31	359.53	10,579.31	10,223.73	126.49	10,222.34	0.00	0.00	0.00
21,300.00	93.31	359.53	10,573.54	10,323.56	125.68	10,322.18	0.00	0.00	0.00
21,400.00	93.31	359.53	10,567.77	10,423.39	124.86	10,422.01	0.00	0.00	0.00
21,500.00	93.31	359.53	10,562.00	10,523.22	124.05	10,521.84	0.00	0.00	0.00
21,600.00	93.31	359.53	10,556.24	10,623.05	123.23	10,621.68	0.00	0.00	0.00
21,632.40	93.31	359.53	10,554.37	10,655.39	122.97	10,654.02	0.00	0.00	0.00
T12(Belcher1)									
21,638.80	93.31	359.53	10,554.00	10,661.78	122.92	10,660.41	0.00	0.00	0.00
TD: 21638.80' MD, 10554.00' TVD - PBHL(B-19S35E9-1H)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Belcher 19S35E9 1H
Company:	Catena Resources Operating. LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

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(B-19S35E9-1H) - plan hits target center - Point	0.00	0.00	8,000.00	-248.00	53.50	607,339.91	808,199.95	32.666626610	-103.466134462
PBHL(B-19S35E9-1H) - plan hits target center - Point	0.00	0.00	10,554.00	10,661.78	122.92	618,249.70	808,269.36	32.696609400	-103.465619000
T12(Belcher1) - plan misses target center by 0.37usft at 21632.40usft MD (10554.37 TVD, 10655.39 N, 122.97 E) - Point	0.00	0.00	10,554.00	10,655.37	122.97	618,243.28	808,269.42	32.696591771	-103.465618996
T08(Belcher1) - plan hits target center - Point	0.00	0.00	10,764.00	7,001.49	152.80	614,589.40	808,299.25	32.686548827	-103.465619191
T05(Belcher1) - plan hits target center - Point	0.00	0.00	10,842.00	4,001.59	177.30	611,589.50	808,323.75	32.678303380	-103.465619303
FTP(B-19S35E9-1H) - plan misses target center by 4.51usft at 11260.41usft MD (10942.65 TVD, 292.36 N, 204.93 E) - Point	0.00	0.00	10,939.00	292.55	207.57	607,880.47	808,354.01	32.668108800	-103.465619500
T01(Belcher1) - plan misses target center by 0.27usft at 11542.96usft MD (10939.27 TVD, 574.71 N, 205.30 E) - Point	0.00	0.00	10,939.00	574.70	205.28	608,162.61	808,351.73	32.668884307	-103.465619432

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 Belcher 19S35E9 1H
Company:	Catena Resources Operating, LLC	TVD Reference:	3821+25 @ 3846.00usft (KB=25)
Project:	Lea County NM N83-NM-EZ	MD Reference:	3821+25 @ 3846.00usft (KB=25)
Site:	Belcher Cable	North Reference:	Grid
Well:	Belcher 19S35E9 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	1H		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	Quaternary			
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			
4,655.57	4,655.00	Queen			
5,296.25	5,294.00	Capitan Reef			
6,051.24	6,047.00	Del. Cherry Canyon			
7,918.01	7,909.00	Bone S. Lime			
8,813.02	8,804.00	1st Bone S. Carb.			
9,405.02	9,396.00	1st Bone S. Sand			
9,675.02	9,666.00	2nd Bone S. Carb.			
9,826.02	9,817.00	2nd Bone S. Sand			
10,103.02	10,094.00	2nd Bone S. 'N' Sand			
10,394.03	10,385.00	2nd Bone S. Dol.			
10,589.58	10,575.00	3rd Bone S. Carb.			
10,937.90	10,839.00	3rd Bone S. Sand			
10,951.01	10,846.00	Wolfcamp			
11,228.32	10,939.00	Wolfcamp 'A' Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,367.02	10,358.00	-248.00	53.50	KOP: 10367.02' MD, 10358.00' TVD
11,338.73	10,945.06	370.56	206.97	EOC: 11338.73' MD, 10945.06' TVD
21,638.80	10,554.00	10,661.78	122.92	TD: 21638.80' MD, 10554.00' TVD