



30-025-43349

October 20, 2016

HOBBS CO

DEC 01 2016

RECEIVED

Caza Petroleum, Inc.

200 N. Loraine, STE 1550

Midland, TX 79701

CATHEDRAL ENERGY SERVICES
The Trinity Building
Suite 300, 1901 Broadway Street
Denver, Colorado, United States
80202

303.825.1001 Office
877.825.1002 Toll-Free
303.825.1991 Fax
CathedralEnergyServices.com

Drilling + Completions

Re: Certified Final Directional Survey

Dear Sir/ Madam,

Please find enclosed Cathedral Energy Services Certificate Final Survey for Caza Petroleum, Inc.

Rig: Nabors #893

Well: Lennox 33 State Com 6H

API # 30-025-43349

County: Lea County, NM

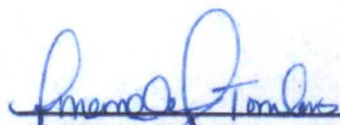
The data and calculations included in this survey have been reviewed and conform to the operational standards as outlined by the State of New Mexico EMNRD. Should you have any questions please do not hesitate to contact Cathedral Energy Services.

Sincerely,

Cathedral Energy Services

Amanda Tomlinson

Well Planner Print Name


Well Planner Signature

Date

10.20.16



Project: Lea County, NM (NAD27)
Site: Sec. 32-T22S-R35E
Well: Lennox 33 State #6H
Wellbore: HZ
Design: Plan #8 (10.19.16 AT)

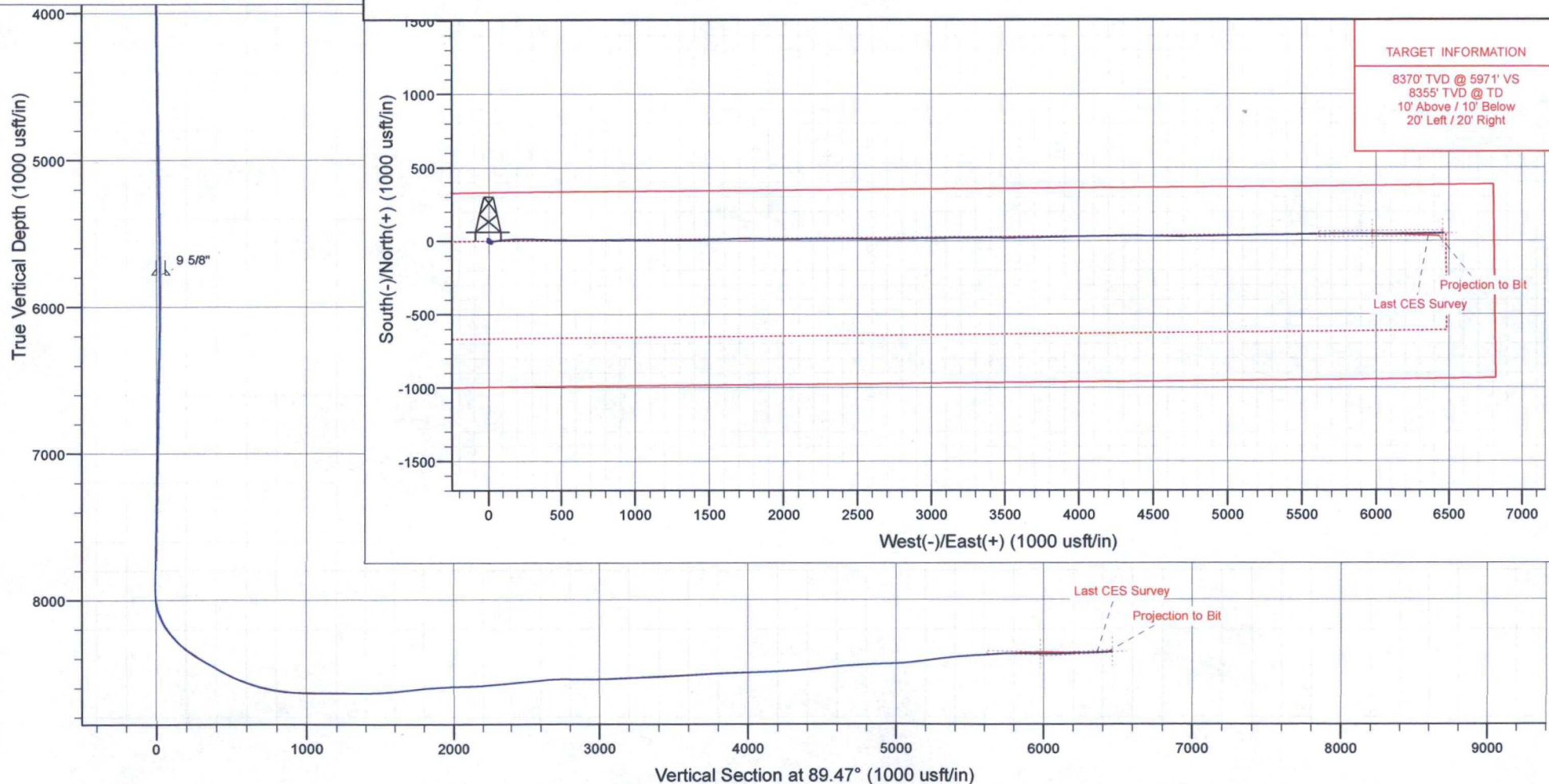


Azimuths to Grid North
True North: -0.51°
Magnetic North: 6.42°

Magnetic Field
Strength: 48316.8snT
Dip Angle: 60.27°
Date: 9/26/2016
Model: HDGM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	13890.00	94.00	89.60	8375.61	44.38	5610.98	0.00	0.00	5611.15	Tie On @ 13890' MD
2	13962.00	94.00	89.60	8370.59	44.88	5682.81	0.00	0.00	5682.98	PTB/Start 3" Drop
3	14157.77	88.13	89.62	8366.95	46.21	5878.46	3.00	179.79	5878.63	EOD; 88.13°
4	14250.98	88.13	89.62	8370.00	46.83	5971.61	0.00	0.00	5971.79	Start 2.5" Build
5	14429.34	92.59	89.63	8368.89	48.00	6149.92	2.50	0.08	6150.10	EOB; 92.59°
6	14737.24	92.59	89.63	8355.00	50.00	6457.50	0.00	0.00	6457.69	PBHL @ 14737' MD



WELL DETAILS: Lennox 33 State #6H

+N/-S	+E/-W	Northing	Ground Level:	3526.00	Latitude	Longitude
0.00	0.00	493977.20	Easting	793992.40	32.354465	-103.381293

Cathedral Energy Services

Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Sec. 32-T22S-R35E			
Site Position:		Northing:	493,977.20 usft	Latitude:	32.354465
From:	Map	Easting:	793,992.40 usft	Longitude:	-103.381293
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.51 °

Well	Lennox 33 State #6H					
Well Position	+N/-S	0.00 usft	Northing:	493,977.20 usft	Latitude:	32.354465
	+E/-W	0.00 usft	Easting:	793,992.40 usft	Longitude:	-103.381293
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,526.00 usft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/26/2016	6.93	60.27	48,317

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	89.47	

Survey Program	Date	10/20/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
154.00	14,713.00	CES MWD (HZ)	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
154.00	0.40	120.00	154.00	-0.27	0.47	0.46	0.26	0.26	
338.00	0.40	122.80	337.99	-0.94	1.56	1.55	0.01	0.00	
522.00	0.40	99.50	521.99	-1.39	2.73	2.72	0.09	0.00	
706.00	0.40	80.50	705.99	-1.39	4.00	3.99	0.07	0.00	
890.00	0.40	73.20	889.98	-1.10	5.25	5.24	0.03	0.00	
1,074.00	0.40	82.00	1,073.98	-0.83	6.50	6.49	0.03	0.00	
1,261.00	0.40	73.90	1,260.97	-0.55	7.77	7.77	0.03	0.00	
1,452.00	0.30	52.90	1,451.97	-0.07	8.81	8.81	0.08	-0.05	
1,640.00	0.40	74.70	1,639.97	0.40	9.84	9.84	0.09	0.05	
1,833.00	0.10	30.30	1,832.96	0.73	10.57	10.58	0.17	-0.16	
2,023.00	0.60	68.40	2,022.96	1.24	11.58	11.59	0.28	0.26	
2,213.00	2.40	62.00	2,212.89	3.47	16.02	16.05	0.95	0.95	

Cathedral Energy Services
Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
2,308.00	1.90	37.60	2,307.82	5.65	18.74	18.79	1.09	-0.53	
2,402.00	1.90	352.90	2,401.77	8.43	19.50	19.57	1.54	0.00	
2,496.00	2.30	312.40	2,495.72	11.25	17.91	18.01	1.60	0.43	
2,590.00	2.10	312.80	2,589.65	13.69	15.25	15.38	0.21	-0.21	
2,684.00	2.20	312.40	2,683.58	16.08	12.66	12.81	0.11	0.11	
2,779.00	2.20	295.80	2,778.51	18.10	9.67	9.84	0.67	0.00	
2,873.00	2.50	286.40	2,872.43	19.47	6.08	6.26	0.52	0.32	
2,967.00	1.50	261.90	2,966.38	19.87	2.89	3.08	1.38	-1.06	
3,062.00	1.70	190.10	3,061.35	18.31	1.42	1.59	1.98	0.21	
3,156.00	1.90	178.90	3,155.30	15.38	1.20	1.34	0.43	0.21	
3,250.00	1.70	177.10	3,249.25	12.43	1.30	1.42	0.22	-0.21	
3,345.00	1.70	172.90	3,344.21	9.62	1.55	1.64	0.13	0.00	
3,439.00	1.50	161.50	3,438.18	7.07	2.11	2.18	0.40	-0.21	
3,534.00	1.80	160.30	3,533.14	4.49	3.01	3.05	0.32	0.32	
3,628.00	1.80	152.20	3,627.09	1.79	4.19	4.21	0.27	0.00	
3,722.00	1.90	140.40	3,721.04	-0.71	5.88	5.87	0.42	0.11	
3,817.00	1.00	140.50	3,816.01	-2.57	7.41	7.38	0.95	-0.95	
3,910.00	0.40	176.30	3,909.00	-3.52	7.94	7.91	0.77	-0.65	
4,005.00	0.60	152.50	4,004.00	-4.29	8.19	8.15	0.30	0.21	
4,099.00	0.70	144.10	4,097.99	-5.19	8.76	8.71	0.15	0.11	
4,193.00	0.60	133.30	4,191.99	-5.99	9.45	9.40	0.17	-0.11	
4,286.00	0.60	126.60	4,284.98	-6.62	10.20	10.14	0.08	0.00	
4,381.00	0.60	112.40	4,379.98	-7.10	11.06	10.99	0.16	0.00	
4,475.00	0.80	116.80	4,473.97	-7.59	12.10	12.03	0.22	0.21	
4,569.00	1.10	120.50	4,567.96	-8.34	13.46	13.38	0.33	0.32	
4,664.00	1.10	119.60	4,662.94	-9.25	15.04	14.95	0.02	0.00	
4,758.00	1.40	132.40	4,756.92	-10.47	16.67	16.58	0.43	0.32	
4,852.00	1.60	154.40	4,850.89	-12.43	18.09	17.97	0.64	0.21	
4,947.00	1.30	149.20	4,945.86	-14.55	19.21	19.08	0.34	-0.32	
5,041.00	1.20	128.10	5,039.83	-16.08	20.53	20.38	0.50	-0.11	
5,136.00	0.80	120.20	5,134.82	-17.02	21.89	21.73	0.44	-0.42	
5,230.00	0.90	102.70	5,228.81	-17.52	23.18	23.01	0.29	0.11	
5,325.00	1.00	96.90	5,323.80	-17.78	24.73	24.56	0.15	0.11	
5,419.00	0.90	86.80	5,417.78	-17.84	26.28	26.11	0.21	-0.11	
5,514.00	0.60	63.70	5,512.78	-17.58	27.47	27.31	0.44	-0.32	
5,608.00	0.90	59.70	5,606.77	-16.99	28.55	28.39	0.32	0.32	
5,702.00	0.90	65.90	5,700.76	-16.31	29.86	29.71	0.10	0.00	
5,882.00	0.80	349.80	5,880.74	-14.50	30.93	30.79	0.58	-0.06	
5,976.00	0.60	271.10	5,974.74	-13.84	30.32	30.19	0.96	-0.21	
6,072.00	0.50	264.00	6,070.73	-13.88	29.40	29.27	0.13	-0.10	
6,167.00	0.70	250.80	6,165.73	-14.11	28.44	28.31	0.25	0.21	
6,262.00	0.60	249.30	6,260.72	-14.48	27.43	27.29	0.11	-0.11	
6,357.00	1.30	276.40	6,355.71	-14.53	25.89	25.75	0.86	0.74	
6,452.00	1.20	270.90	6,450.68	-14.40	23.83	23.69	0.16	-0.11	
6,547.00	1.10	272.50	6,545.66	-14.34	21.92	21.79	0.11	-0.11	
6,641.00	1.10	274.00	6,639.65	-14.24	20.12	19.98	0.03	0.00	
6,735.00	1.10	268.20	6,733.63	-14.20	18.32	18.18	0.12	0.00	
6,830.00	1.00	257.90	6,828.61	-14.41	16.59	16.46	0.22	-0.11	
6,924.00	1.00	250.50	6,922.60	-14.85	15.02	14.88	0.14	0.00	
7,018.00	1.30	302.00	7,016.58	-14.56	13.34	13.21	1.10	0.32	
7,113.00	1.50	307.00	7,111.55	-13.24	11.43	11.31	0.25	0.21	
7,208.00	1.40	299.30	7,206.52	-11.93	9.43	9.32	0.23	-0.11	
7,302.00	1.20	299.70	7,300.50	-10.88	7.57	7.47	0.21	-0.21	

Cathedral Energy Services
Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
7,397.00	1.10	297.00	7,395.48	-9.97	5.90	5.80	0.12	-0.11	
7,491.00	1.00	288.20	7,489.47	-9.30	4.31	4.23	0.20	-0.11	
7,586.00	0.90	292.20	7,584.45	-8.76	2.83	2.75	0.13	-0.11	
7,680.00	0.90	290.60	7,678.44	-8.22	1.46	1.38	0.03	0.00	
7,775.00	0.70	296.10	7,773.43	-7.71	0.24	0.17	0.23	-0.21	
7,890.00	0.50	296.40	7,888.43	-7.17	-0.84	-0.91	0.17	-0.17	
7,954.00	1.20	89.50	7,952.42	-7.04	-0.42	-0.49	2.60	1.09	
7,986.00	5.00	88.90	7,984.37	-7.01	1.31	1.25	11.88	11.87	
8,033.00	11.40	88.00	8,030.86	-6.81	8.01	7.94	13.62	13.62	
8,081.00	17.30	82.40	8,077.35	-5.70	19.83	19.78	12.61	12.29	
8,128.00	22.80	79.30	8,121.48	-3.09	35.72	35.69	11.91	11.70	
8,176.00	28.90	82.00	8,164.66	0.26	56.37	56.37	12.94	12.71	
8,223.00	35.00	83.40	8,204.52	3.39	81.03	81.05	13.07	12.98	
8,272.00	40.40	85.20	8,243.28	6.34	110.83	110.89	11.25	11.02	
8,319.00	44.10	86.70	8,278.07	8.55	142.35	142.42	8.16	7.87	
8,367.00	48.50	87.40	8,311.22	10.33	177.00	177.08	9.23	9.17	
8,414.00	51.60	88.90	8,341.40	11.48	213.00	213.10	7.03	6.60	
8,462.00	54.50	89.50	8,370.25	12.02	251.35	251.45	6.12	6.04	
8,509.00	57.40	90.30	8,396.56	12.08	290.29	290.39	6.33	6.17	
8,558.00	60.10	91.10	8,421.98	11.56	332.17	332.27	5.68	5.51	
8,605.00	60.60	91.50	8,445.23	10.64	373.01	373.09	1.30	1.06	
8,653.00	60.50	92.10	8,468.83	9.32	414.79	414.85	1.11	-0.21	
8,700.00	60.20	92.10	8,492.08	7.83	455.60	455.66	0.64	-0.64	
8,747.00	63.40	91.10	8,514.29	6.68	497.00	497.04	7.06	6.81	
8,794.00	67.20	91.10	8,533.92	5.86	539.69	539.72	8.09	8.09	
8,843.00	69.90	90.40	8,551.84	5.26	585.28	585.31	5.67	5.51	
8,890.00	71.10	90.30	8,567.53	4.99	629.59	629.61	2.56	2.55	
8,938.00	71.70	90.90	8,582.84	4.52	675.08	675.09	1.72	1.25	
8,985.00	75.10	90.00	8,596.27	4.16	720.11	720.12	7.46	7.23	
9,033.00	78.50	88.50	8,607.23	4.78	766.83	766.84	7.71	7.08	
9,080.00	80.80	88.20	8,615.67	6.11	813.04	813.06	4.93	4.89	
9,129.00	82.60	88.10	8,622.74	7.68	861.50	861.54	3.68	3.67	
9,176.00	85.50	88.90	8,627.61	8.90	908.23	908.27	6.40	6.17	
9,223.00	87.60	89.70	8,630.44	9.47	955.14	955.18	4.78	4.47	
9,318.00	90.10	91.10	8,632.35	8.81	1,050.10	1,050.14	3.02	2.63	
9,413.00	89.50	91.10	8,632.68	6.99	1,145.09	1,145.10	0.63	-0.63	
9,508.00	89.10	89.50	8,633.84	6.49	1,240.07	1,240.08	1.74	-0.42	
9,604.00	89.60	89.70	8,634.93	7.16	1,336.06	1,336.07	0.56	0.52	
9,699.00	91.20	88.60	8,634.27	8.57	1,431.05	1,431.07	2.04	1.68	
9,794.00	94.00	88.50	8,629.96	10.97	1,525.91	1,525.95	2.95	2.95	
9,889.00	95.30	88.30	8,622.26	13.61	1,620.56	1,620.61	1.38	1.37	
9,985.00	96.10	88.30	8,612.72	16.45	1,716.04	1,716.12	0.83	0.83	
10,080.00	96.10	91.50	8,602.62	16.61	1,810.49	1,810.57	3.35	0.00	
10,176.00	93.00	92.00	8,595.01	13.69	1,906.13	1,906.18	3.27	-3.23	
10,271.00	92.00	90.00	8,590.87	12.03	2,001.02	2,001.05	2.35	-1.05	
10,366.00	90.70	88.80	8,588.63	13.03	2,095.98	2,096.02	1.86	-1.37	
10,461.00	94.10	89.60	8,584.65	14.35	2,190.88	2,190.92	3.68	3.58	
10,557.00	95.60	90.20	8,576.53	14.52	2,286.53	2,286.57	1.68	1.56	
10,652.00	94.00	89.80	8,568.58	14.52	2,381.19	2,381.23	1.74	-1.68	
10,747.00	95.30	90.40	8,560.88	14.36	2,475.88	2,475.91	1.51	1.37	
10,843.00	96.50	91.10	8,551.01	13.11	2,571.36	2,571.37	1.45	1.25	
10,938.00	94.60	89.90	8,541.83	12.28	2,665.90	2,665.90	2.36	-2.00	
11,033.00	89.00	88.60	8,538.84	13.53	2,760.81	2,760.82	6.05	-5.89	

Cathedral Energy Services

Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Formations / Comments
11,128.00	89.10	88.90	8,540.42	15.60	2,855.77	2,855.80	0.33	0.11	
11,223.00	90.60	89.20	8,540.67	17.17	2,950.76	2,950.79	1.61	1.58	
11,319.00	91.70	89.20	8,538.74	18.51	3,046.73	3,046.77	1.15	1.15	
11,414.00	92.30	89.30	8,535.43	19.76	3,141.66	3,141.71	0.64	0.63	
11,510.00	93.60	89.80	8,530.49	20.51	3,237.53	3,237.58	1.45	1.35	
11,605.00	92.20	90.10	8,525.68	20.59	3,332.40	3,332.45	1.51	-1.47	
11,700.00	92.40	90.30	8,521.87	20.26	3,427.33	3,427.37	0.30	0.21	
11,795.00	93.00	90.40	8,517.39	19.68	3,522.22	3,522.25	0.64	0.63	
11,891.00	93.00	88.90	8,512.37	20.27	3,618.08	3,618.12	1.56	0.00	
11,986.00	94.20	87.70	8,506.40	23.08	3,712.85	3,712.90	1.78	1.26	
12,081.00	91.90	89.00	8,501.35	25.81	3,807.67	3,807.74	2.78	-2.42	
12,176.00	92.10	88.80	8,498.03	27.63	3,902.59	3,902.68	0.30	0.21	
12,271.00	91.90	88.60	8,494.72	29.79	3,997.51	3,997.61	0.30	-0.21	
12,367.00	92.10	89.00	8,491.37	31.80	4,093.43	4,093.55	0.47	0.21	
12,462.00	92.60	89.00	8,487.47	33.45	4,188.34	4,188.47	0.53	0.53	
12,557.00	93.30	89.70	8,482.58	34.53	4,283.20	4,283.34	1.04	0.74	
12,652.00	95.00	90.70	8,475.71	34.20	4,377.95	4,378.08	2.07	1.79	
12,747.00	96.20	90.50	8,466.44	33.21	4,472.49	4,472.60	1.28	1.26	
12,843.00	95.40	91.00	8,456.73	31.96	4,567.99	4,568.09	0.98	-0.83	
12,938.00	94.30	90.70	8,448.70	30.55	4,662.64	4,662.72	1.20	-1.16	
13,033.00	94.70	89.90	8,441.25	30.06	4,757.34	4,757.41	0.94	0.42	
13,128.00	90.70	88.80	8,436.77	31.14	4,852.21	4,852.29	4.37	-4.21	
13,223.00	91.10	88.60	8,435.28	33.29	4,947.17	4,947.27	0.47	0.42	
13,318.00	93.90	88.00	8,431.14	36.11	5,042.03	5,042.15	3.01	2.95	
13,413.00	97.40	89.30	8,421.79	38.34	5,136.52	5,136.66	3.93	3.68	
13,508.00	97.50	89.00	8,409.47	39.73	5,230.71	5,230.86	0.33	0.11	
13,604.00	97.10	89.70	8,397.27	40.81	5,325.93	5,326.08	0.83	-0.42	
13,699.00	95.30	89.30	8,387.01	41.64	5,420.36	5,420.52	1.94	-1.89	
13,794.00	92.20	88.90	8,380.80	43.13	5,515.14	5,515.30	3.29	-3.26	
13,890.00	94.00	89.60	8,375.61	44.38	5,610.98	5,611.15	2.01	1.87	
13,984.00	92.90	89.40	8,369.95	45.20	5,704.81	5,704.98	1.19	-1.17	
14,080.00	92.40	89.70	8,365.51	45.95	5,800.70	5,800.88	0.61	-0.52	
14,174.00	91.90	90.50	8,361.99	45.79	5,894.64	5,894.81	1.00	-0.53	
14,250.79	90.61	90.99	8,360.31	44.80	5,971.40	5,971.56	1.80	-1.68	5971' VS Tgt
14,269.00	90.30	91.10	8,360.16	44.46	5,989.60	5,989.76	1.80	-1.68	
14,363.00	88.60	90.90	8,361.06	42.82	6,083.58	6,083.72	1.82	-1.81	
14,458.00	89.00	91.10	8,363.05	41.17	6,178.55	6,178.66	0.47	0.42	
14,552.00	90.70	91.70	8,363.30	38.87	6,272.51	6,272.61	1.92	1.81	
14,641.00	91.90	92.60	8,361.28	35.53	6,361.43	6,361.48	1.69	1.35	Last CES Survey
14,713.00	91.90	92.60	8,358.89	32.27	6,433.31	6,433.34	0.00	0.00	Projection to Bit - Lennox 6H PBHL P8

Cathedral Energy Services

Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Lennox 6H PBHL P8	87.41	89.47	8,355.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 30.24usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D487.00)									
Lennox 6H PBHL P7	86.95	89.47	8,335.60	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 37.97usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D733.00)									
Lennox 6H PBHL P5	86.15	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D458.00)									
4000' VS Tgt	88.58	89.47	8,503.00	29.31	3,999.90	494,006.51	797,992.30	32.354447	-103.368340
- actual wellpath misses target center by 8.38usft at 12273.09usft MD (8494.65 TVD, 29.84 N, 3999.60 E)									
- Rectangle (sides W20.00 H40.00 D1,500.00)									
Lennox 6H PBHL P4	87.88	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D3,782.00)									
2500' VS Tgt	83.86	89.47	8,550.00	17.10	2,499.95	493,994.30	796,492.35	32.354451	-103.373197
- actual wellpath misses target center by 9.04usft at 10772.03usft MD (8558.50 TVD, 14.14 N, 2500.79 E)									
- Rectangle (sides W20.00 H40.00 D500.00)									
Lennox 6H LP	0.00	0.00	8,636.00	-12.20	567.60	493,965.00	794,560.00	32.354418	-103.379455
- actual wellpath misses target center by 86.90usft at 8854.52usft MD (8555.77 TVD, 5.19 N, 596.12 E)									
- Point									
5971' VS Tgt	91.87	89.47	8,370.00	46.83	5,971.61	494,024.03	799,964.01	32.354447	-103.361956
- actual wellpath misses target center by 9.91usft at 14250.89usft MD (8360.31 TVD, 44.79 N, 5971.50 E)									
- Rectangle (sides W20.00 H40.00 D360.00)									
6400' VS Tgt	87.31	89.47	8,375.00	49.51	6,399.82	494,026.71	800,392.22	32.354443	-103.360569
- actual wellpath misses target center by 21.69usft at 14678.24usft MD (8360.05 TVD, 33.84 N, 6398.61 E)									
- Rectangle (sides W20.00 H40.00 D1,700.00)									
6000' VS Tgt	88.19	89.47	8,440.00	46.15	5,999.83	494,023.35	799,992.23	32.354444	-103.361864
- actual wellpath misses target center by 79.90usft at 14279.96usft MD (8360.12 TVD, 44.26 N, 6000.56 E)									
- Rectangle (sides W20.00 H40.00 D2,000.00)									
Lennox 6H PBHL P6	86.15	89.47	8,372.29	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 32.85usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D58.00)									
Lennox 6H PBHL P3	88.12	89.60	8,458.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382
- actual wellpath misses target center by 103.54usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D5,872.63)									
Lennox 6H PBHL	88.26	89.47	8,458.00	42.80	6,497.60	494,020.00	800,490.00	32.354422	-103.360253
- actual wellpath misses target center by 118.60usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D5,872.63)									
5724' VS Tgt	86.17	89.47	8,375.00	41.00	5,724.19	494,018.20	799,716.59	32.354437	-103.362757
- actual wellpath misses target center by 7.44usft at 14003.10usft MD (8369.00 TVD, 45.39 N, 5723.88 E)									
- Rectangle (sides W20.00 H40.00 D968.00)									
4700' VS Tgt	87.20	89.47	8,455.00	35.40	4,699.88	494,012.60	798,692.28	32.354447	-103.366074
- actual wellpath misses target center by 10.50usft at 12974.61usft MD (8445.91 TVD, 30.21 N, 4699.14 E)									
- Rectangle (sides W20.00 H40.00 D915.00)									
2675' VS Tgt	85.87	89.47	8,553.00	18.00	2,674.89	493,995.20	796,667.29	32.354449	-103.372631
- actual wellpath misses target center by 13.13usft at 10946.71usft MD (8541.17 TVD, 12.31 N, 2674.59 E)									
- Rectangle (sides W20.00 H40.00 D1,325.00)									

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
Lennox 6H PBHL P8	87.41	89.47	8,355.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 30.24usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D487.00)										
Lennox 6H PBHL P7	86.95	89.47	8,335.60	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 37.97usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D733.00)										
Lennox 6H PBHL P5	86.15	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D458.00)										
4000' VS Tgt	88.58	89.47	8,503.00	29.31	3,999.90	494,006.51	797,992.30	32.354447	-103.368340	
- actual wellpath misses target center by 8.38usft at 12273.09usft MD (8494.65 TVD, 29.84 N, 3999.60 E)										
- Rectangle (sides W20.00 H40.00 D1,500.00)										
Lennox 6H PBHL P4	87.88	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D3,782.00)										
2500' VS Tgt	83.86	89.47	8,550.00	17.10	2,499.95	493,994.30	796,492.35	32.354451	-103.373197	
- actual wellpath misses target center by 9.04usft at 10772.03usft MD (8558.50 TVD, 14.14 N, 2500.79 E)										
- Rectangle (sides W20.00 H40.00 D500.00)										
Lennox 6H LP	0.00	0.00	8,636.00	-12.20	567.60	493,965.00	794,560.00	32.354418	-103.379455	
- actual wellpath misses target center by 86.90usft at 8854.52usft MD (8555.77 TVD, 5.19 N, 596.12 E)										
- Point										
5971' VS Tgt	91.87	89.47	8,370.00	46.83	5,971.61	494,024.03	799,964.01	32.354447	-103.361956	
- actual wellpath misses target center by 9.91usft at 14250.89usft MD (8360.31 TVD, 44.79 N, 5971.50 E)										
- Rectangle (sides W20.00 H40.00 D360.00)										
6400' VS Tgt	87.31	89.47	8,375.00	49.51	6,399.82	494,026.71	800,392.22	32.354443	-103.360569	
- actual wellpath misses target center by 21.69usft at 14678.24usft MD (8360.05 TVD, 33.84 N, 6398.61 E)										
- Rectangle (sides W20.00 H40.00 D1,700.00)										
6000' VS Tgt	88.19	89.47	8,440.00	46.15	5,999.83	494,023.35	799,992.23	32.354444	-103.361864	
- actual wellpath misses target center by 79.90usft at 14279.96usft MD (8360.12 TVD, 44.26 N, 6000.56 E)										
- Rectangle (sides W20.00 H40.00 D2,000.00)										
Lennox 6H PBHL P6	86.15	89.47	8,372.29	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 32.85usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D58.00)										
Lennox 6H PBHL P3	88.12	89.60	8,458.00	50.00	6,457.50	494,027.20	800,449.90	32.354443	-103.360382	
- actual wellpath misses target center by 103.54usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D5,872.63)										
Lennox 6H PBHL	88.26	89.47	8,458.00	42.80	6,497.60	494,020.00	800,490.00	32.354422	-103.360253	
- actual wellpath misses target center by 118.60usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D5,872.63)										
5724' VS Tgt	86.17	89.47	8,375.00	41.00	5,724.19	494,018.20	799,716.59	32.354437	-103.362757	
- actual wellpath misses target center by 7.44usft at 14003.10usft MD (8369.00 TVD, 45.39 N, 5723.88 E)										
- Rectangle (sides W20.00 H40.00 D968.00)										
4700' VS Tgt	87.20	89.47	8,455.00	35.40	4,699.88	494,012.60	798,692.28	32.354447	-103.366074	
- actual wellpath misses target center by 10.50usft at 12974.61usft MD (8445.91 TVD, 30.21 N, 4699.14 E)										
- Rectangle (sides W20.00 H40.00 D915.00)										
2675' VS Tgt	85.87	89.47	8,553.00	18.00	2,674.89	493,995.20	796,667.29	32.354449	-103.372631	
- actual wellpath misses target center by 13.13usft at 10946.71usft MD (8541.17 TVD, 12.31 N, 2674.59 E)										
- Rectangle (sides W20.00 H40.00 D1,325.00)										

Design Annotations

Cathedral Energy Services

Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
Lennox 6H PBHL P8		87.41	89.47	8,355.00	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 30.24usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D487.00)									
Lennox 6H PBHL P7		86.95	89.47	8,335.60	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 37.97usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D733.00)									
Lennox 6H PBHL P5		86.15	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D458.00)									
4000' VS Tgt		88.58	89.47	8,503.00	29.31	3,999.90	494,006.51	797,992.30	32.354447 -103.368340
- actual wellpath misses target center by 8.38usft at 12273.09usft MD (8494.65 TVD, 29.84 N, 3999.60 E)									
- Rectangle (sides W20.00 H40.00 D1,500.00)									
Lennox 6H PBHL P4		87.88	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D3,782.00)									
2500' VS Tgt		83.86	89.47	8,550.00	17.10	2,499.95	493,994.30	796,492.35	32.354451 -103.373197
- actual wellpath misses target center by 9.04usft at 10772.03usft MD (8558.50 TVD, 14.14 N, 2500.79 E)									
- Rectangle (sides W20.00 H40.00 D500.00)									
Lennox 6H LP		0.00	0.00	8,636.00	-12.20	567.60	493,965.00	794,560.00	32.354418 -103.379455
- actual wellpath misses target center by 86.90usft at 8854.52usft MD (8555.77 TVD, 5.19 N, 596.12 E)									
- Point									
5971' VS Tgt		91.87	89.47	8,370.00	46.83	5,971.61	494,024.03	799,964.01	32.354447 -103.361956
- actual wellpath misses target center by 9.91usft at 14250.89usft MD (8360.31 TVD, 44.79 N, 5971.50 E)									
- Rectangle (sides W20.00 H40.00 D360.00)									
6400' VS Tgt		87.31	89.47	8,375.00	49.51	6,399.82	494,026.71	800,392.22	32.354443 -103.360569
- actual wellpath misses target center by 21.69usft at 14678.24usft MD (8360.05 TVD, 33.84 N, 6398.61 E)									
- Rectangle (sides W20.00 H40.00 D1,700.00)									
6000' VS Tgt		88.19	89.47	8,440.00	46.15	5,999.83	494,023.35	799,992.23	32.354444 -103.361864
- actual wellpath misses target center by 79.90usft at 14279.96usft MD (8360.12 TVD, 44.26 N, 6000.56 E)									
- Rectangle (sides W20.00 H40.00 D2,000.00)									
Lennox 6H PBHL P6		86.15	89.47	8,372.29	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 32.85usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D58.00)									
Lennox 6H PBHL P3		88.12	89.60	8,458.00	50.00	6,457.50	494,027.20	800,449.90	32.354443 -103.360382
- actual wellpath misses target center by 103.54usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D5,872.63)									
Lennox 6H PBHL		88.26	89.47	8,458.00	42.80	6,497.60	494,020.00	800,490.00	32.354422 -103.360253
- actual wellpath misses target center by 118.60usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)									
- Rectangle (sides W20.00 H40.00 D5,872.63)									
5724' VS Tgt		86.17	89.47	8,375.00	41.00	5,724.19	494,018.20	799,716.59	32.354437 -103.362757
- actual wellpath misses target center by 7.44usft at 14003.10usft MD (8369.00 TVD, 45.39 N, 5723.88 E)									
- Rectangle (sides W20.00 H40.00 D968.00)									
4700' VS Tgt		87.20	89.47	8,455.00	35.40	4,699.88	494,012.60	798,692.28	32.354447 -103.366074
- actual wellpath misses target center by 10.50usft at 12974.61usft MD (8445.91 TVD, 30.21 N, 4699.14 E)									
- Rectangle (sides W20.00 H40.00 D915.00)									
2675' VS Tgt		85.87	89.47	8,553.00	18.00	2,674.89	493,995.20	796,667.29	32.354449 -103.372631
- actual wellpath misses target center by 13.13usft at 10946.71usft MD (8541.17 TVD, 12.31 N, 2674.59 E)									
- Rectangle (sides W20.00 H40.00 D1,325.00)									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
Lennox 6H PBHL P6	87.41	89.47	8,355.00	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 30.24usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D487.00)										
Lennox 6H PBHL P7	86.95	89.47	8,335.60	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 37.97usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D733.00)										
Lennox 6H PBHL P5	86.15	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D458.00)										
4000' VS Tgt	88.58	89.47	8,503.00	29.31	3,999.90	494,006.51	797,992.30		32.354447	-103.368340
- actual wellpath misses target center by 8.38usft at 12273.09usft MD (8494.65 TVD, 29.84 N, 3999.60 E)										
- Rectangle (sides W20.00 H40.00 D1,500.00)										
Lennox 6H PBHL P4	87.88	89.47	8,411.00	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 60.12usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D3,782.00)										
2500' VS Tgt	83.86	89.47	8,550.00	17.10	2,499.95	493,994.30	796,492.35		32.354451	-103.373197
- actual wellpath misses target center by 9.04usft at 10772.03usft MD (8558.50 TVD, 14.14 N, 2500.79 E)										
- Rectangle (sides W20.00 H40.00 D500.00)										
Lennox 6H LP	0.00	0.00	8,636.00	-12.20	567.60	493,965.00	794,560.00		32.354418	-103.379455
- actual wellpath misses target center by 86.90usft at 8854.52usft MD (8555.77 TVD, 5.19 N, 596.12 E)										
- Point										
5971' VS Tgt	91.87	89.47	8,370.00	46.83	5,971.61	494,024.03	799,964.01		32.354447	-103.361956
- actual wellpath misses target center by 9.91usft at 14250.89usft MD (8360.31 TVD, 44.79 N, 5971.50 E)										
- Rectangle (sides W20.00 H40.00 D360.00)										
6400' VS Tgt	87.31	89.47	8,375.00	49.51	6,399.82	494,026.71	800,392.22		32.354443	-103.360569
- actual wellpath misses target center by 21.69usft at 14678.24usft MD (8360.05 TVD, 33.84 N, 6398.61 E)										
- Rectangle (sides W20.00 H40.00 D1,700.00)										
6000' VS Tgt	88.19	89.47	8,440.00	46.15	5,999.83	494,023.35	799,992.23		32.354444	-103.361864
- actual wellpath misses target center by 79.90usft at 14279.96usft MD (8360.12 TVD, 44.26 N, 6000.56 E)										
- Rectangle (sides W20.00 H40.00 D2,000.00)										
Lennox 6H PBHL P6	86.15	89.47	8,372.29	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 32.85usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D58.00)										
Lennox 6H PBHL P3	88.12	89.60	8,458.00	50.00	6,457.50	494,027.20	800,449.90		32.354443	-103.360382
- actual wellpath misses target center by 103.54usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D5,872.63)										
Lennox 6H PBHL	88.26	89.47	8,458.00	42.80	6,497.60	494,020.00	800,490.00		32.354422	-103.360253
- actual wellpath misses target center by 118.60usft at 14713.00usft MD (8358.89 TVD, 32.27 N, 6433.31 E)										
- Rectangle (sides W20.00 H40.00 D5,872.63)										
5724' VS Tgt	86.17	89.47	8,375.00	41.00	5,724.19	494,018.20	799,716.59		32.354437	-103.362757
- actual wellpath misses target center by 7.44usft at 14003.10usft MD (8369.00 TVD, 45.39 N, 5723.88 E)										
- Rectangle (sides W20.00 H40.00 D968.00)										
4700' VS Tgt	87.20	89.47	8,455.00	35.40	4,699.88	494,012.60	798,692.28		32.354447	-103.366074
- actual wellpath misses target center by 10.50usft at 12974.61usft MD (8445.91 TVD, 30.21 N, 4699.14 E)										
- Rectangle (sides W20.00 H40.00 D915.00)										
2675' VS Tgt	85.87	89.47	8,553.00	18.00	2,674.89	493,995.20	796,667.29		32.354449	-103.372631
- actual wellpath misses target center by 13.13usft at 10946.71usft MD (8541.17 TVD, 12.31 N, 2674.59 E)										
- Rectangle (sides W20.00 H40.00 D1,325.00)										
	14,641.00	8,361.28	35.53	6,361.43	Last CES Survey					
	14,713.00	8,358.89	32.27	6,433.31	Projection to Bit					

Cathedral Energy Services
Survey Report

Company:	Caza Operating, LLC	Local Co-ordinate Reference:	Well Lennox 33 State #6H
Project:	Lea County, NM (NAD27)	TVD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Site:	Sec. 32-T22S-R35E	MD Reference:	27' RKB @ 3553.00usft (Nabors #893)
Well:	Lennox 33 State #6H	North Reference:	Grid
Wellbore:	HZ	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------