



Caza Operating LLC

Sioux 25-36 State Fed Com 3H

Sioux 25-36 State Fed Com 3H

Sioux 25-36 State Fed Com 3H

Sioux 25-36 State Fed Com 3H

Plan: 190102 Sioux 25-36 State Fed Com 3H

Morcor Standard Plan

02 January, 2019

Company:	Caza Operating LLC			Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
Project:	Sioux 25-36 State Fed Com 3H			TVD Reference:	WELL @ 3103.0usft (Original Well Elev)
Site:	Sioux 25-36 State Fed Com 3H			MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H			North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H			Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H			Database:	EDM 5000.1 Single User Db

Project	Sioux 25-36 State Fed Com 3H				
Map System:	US State Plane 1983		System Datum:	Mean Sea Level	
Geo Datum:	North American Datum 1983				
Map Zone:	New Mexico Eastern Zone				

Site	Sioux 25-36 State Fed Com 3H				
Site Position:		Northing:	404,434.54 usft	Latitude:	32° 6' 28.253 N
From:	Lat/Long	Easting:	853,838.96 usft	Longitude:	103° 19' 26.634 W
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "	Grid Convergence:	0.54 °

Well	Sioux 25-36 State Fed Com 3H					
Well Position	+N/-S	0.0 usft	Northing:	404,434.54 usft	Latitude:	32° 6' 28.253 N
	+E/-W	0.0 usft	Easting:	853,838.96 usft	Longitude:	103° 19' 26.634 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,081.0 usft

Wellbore	Sioux 25-36 State Fed Com 3H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/2/2019	6.52	59.92	47,819

Design	190102 Sioux 25-36 State Fed Com 3H				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.04	

Survey Tool Program	Date	1/2/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,400.0	190102 Sioux 25-36 State Fed Com 3H (S)	MWD	MWD - Standard	

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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	-3,103.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
100.0	0.00	338.00	100.0	-3,003.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
120.0	0.00	338.00	120.0	-2,983.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
20" Conductor										
200.0	0.00	338.00	200.0	-2,903.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
300.0	0.00	338.00	300.0	-2,803.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
400.0	0.00	338.00	400.0	-2,703.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
500.0	0.00	338.00	500.0	-2,603.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
600.0	0.00	338.00	600.0	-2,503.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
700.0	0.00	338.00	700.0	-2,403.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
760.0	0.00	338.00	760.0	-2,343.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Rustler										
800.0	0.00	338.00	800.0	-2,303.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
900.0	0.00	338.00	900.0	-2,203.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,000.0	0.00	338.00	1,000.0	-2,103.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,100.0	0.00	338.00	1,100.0	-2,003.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,115.0	0.00	338.00	1,115.0	-1,988.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
13 3/8" Surface Casing										
1,140.0	0.00	338.00	1,140.0	-1,963.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Top of Salt										
1,200.0	0.00	338.00	1,200.0	-1,903.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,300.0	0.00	338.00	1,300.0	-1,803.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,400.0	0.00	338.00	1,400.0	-1,703.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,500.0	0.00	338.00	1,500.0	-1,603.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,600.0	0.00	338.00	1,600.0	-1,503.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,700.0	0.00	338.00	1,700.0	-1,403.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,800.0	0.00	338.00	1,800.0	-1,303.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
1,900.0	0.00	338.00	1,900.0	-1,203.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00

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Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
2,000.0	0.00	338.00	2,000.0	-1,103.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,100.0	0.00	338.00	2,100.0	-1,003.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,200.0	0.00	338.00	2,200.0	-903.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,300.0	0.00	338.00	2,300.0	-803.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,400.0	0.00	338.00	2,400.0	-703.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,465.0	0.00	338.00	2,465.0	-638.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Base of Salt										
2,500.0	0.00	338.00	2,500.0	-603.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,600.0	0.00	338.00	2,600.0	-503.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,700.0	0.00	338.00	2,700.0	-403.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,800.0	0.00	338.00	2,800.0	-303.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
2,900.0	0.00	338.00	2,900.0	-203.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,000.0	0.00	338.00	3,000.0	-103.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,100.0	0.00	338.00	3,100.0	-3.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,200.0	0.00	338.00	3,200.0	97.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,300.0	0.00	338.00	3,300.0	197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,400.0	0.00	338.00	3,400.0	297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,500.0	0.00	338.00	3,500.0	397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,600.0	0.00	338.00	3,600.0	497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,700.0	0.00	338.00	3,700.0	597.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,800.0	0.00	338.00	3,800.0	697.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
3,900.0	0.00	338.00	3,900.0	797.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,000.0	0.00	338.00	4,000.0	897.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,100.0	0.00	338.00	4,100.0	997.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,200.0	0.00	338.00	4,200.0	1,097.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,300.0	0.00	338.00	4,300.0	1,197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,400.0	0.00	338.00	4,400.0	1,297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00

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4,500.0	0.00	338.00	4,500.0	1,397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,600.0	0.00	338.00	4,600.0	1,497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,700.0	0.00	338.00	4,700.0	1,597.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,800.0	0.00	338.00	4,800.0	1,697.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,900.0	0.00	338.00	4,900.0	1,797.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
4,940.0	0.00	338.00	4,940.0	1,837.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Delaware										
5,000.0	0.00	338.00	5,000.0	1,897.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,100.0	0.00	338.00	5,100.0	1,997.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,200.0	0.00	338.00	5,200.0	2,097.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,300.0	0.00	338.00	5,300.0	2,197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,400.0	0.00	338.00	5,400.0	2,297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,500.0	0.00	338.00	5,500.0	2,397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,600.0	0.00	338.00	5,600.0	2,497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,660.0	0.00	338.00	5,660.0	2,557.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Cherry Canyon										
5,700.0	0.00	338.00	5,700.0	2,597.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,800.0	0.00	338.00	5,800.0	2,697.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
5,900.0	0.00	338.00	5,900.0	2,797.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,000.0	0.00	338.00	6,000.0	2,897.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,100.0	0.00	338.00	6,100.0	2,997.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,200.0	0.00	338.00	6,200.0	3,097.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,300.0	0.00	338.00	6,300.0	3,197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,400.0	0.00	338.00	6,400.0	3,297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,500.0	0.00	338.00	6,500.0	3,397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,600.0	0.00	338.00	6,600.0	3,497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,700.0	0.00	338.00	6,700.0	3,597.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00

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6,800.0	0.00	338.00	6,800.0	3,697.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
6,900.0	0.00	338.00	6,900.0	3,797.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,000.0	0.00	338.00	7,000.0	3,897.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,100.0	0.00	338.00	7,100.0	3,997.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,200.0	0.00	338.00	7,200.0	4,097.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,300.0	0.00	338.00	7,300.0	4,197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,320.0	0.00	338.00	7,320.0	4,217.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Brushy Canyon										
7,400.0	0.00	338.00	7,400.0	4,297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,500.0	0.00	338.00	7,500.0	4,397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,600.0	0.00	338.00	7,600.0	4,497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,700.0	0.00	338.00	7,700.0	4,597.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,800.0	0.00	338.00	7,800.0	4,697.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
7,900.0	0.00	338.00	7,900.0	4,797.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,000.0	0.00	338.00	8,000.0	4,897.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,100.0	0.00	338.00	8,100.0	4,997.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,200.0	0.00	338.00	8,200.0	5,097.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,300.0	0.00	338.00	8,300.0	5,197.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,330.0	0.00	338.00	8,330.0	5,227.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Lower Brushy Canyon										
8,400.0	0.00	338.00	8,400.0	5,297.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,500.0	0.00	338.00	8,500.0	5,397.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
8,575.0	0.00	338.00	8,575.0	5,472.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Bone Spring										
8,600.0	0.00	338.00	8,600.0	5,497.0	0.0	0.0	853,838.96	404,434.54	0.00	0.00
Start Build 3.00 - 9 5/8" Intermediate Casing										
8,700.0	3.00	338.00	8,700.0	5,597.0	2.4	-1.0	853,837.98	404,436.97	-2.43	3.00

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8,800.0	6.00	338.00	8,799.6	5,696.6	9.7	-3.9	853,835.04	404,444.24	-9.70		3.00
Start 2570.0 hold at 8800.0 MD											
8,900.0	6.00	338.00	8,899.1	5,796.1	19.4	-7.8	853,831.12	404,453.93	-19.39		0.00
9,000.0	6.00	338.00	8,998.5	5,895.5	29.1	-11.8	853,827.21	404,463.62	-29.08		0.00
9,100.0	6.00	338.00	9,098.0	5,995.0	38.8	-15.7	853,823.29	404,473.32	-38.76		0.00
9,200.0	6.00	338.00	9,197.4	6,094.4	48.5	-19.6	853,819.38	404,483.01	-48.45		0.00
9,300.0	6.00	338.00	9,296.9	6,193.9	58.2	-23.5	853,815.46	404,492.70	-58.14		0.00
9,400.0	6.00	338.00	9,396.3	6,293.3	67.9	-27.4	853,811.55	404,502.39	-67.83		0.00
9,500.0	6.00	338.00	9,495.8	6,392.8	77.5	-31.3	853,807.63	404,512.08	-77.52		0.00
9,600.0	6.00	338.00	9,595.3	6,492.3	87.2	-35.2	853,803.71	404,521.77	-87.21		0.00
9,700.0	6.00	338.00	9,694.7	6,591.7	96.9	-39.2	853,799.80	404,531.47	-96.90		0.00
9,725.4	6.00	338.00	9,720.0	6,617.0	99.4	-40.2	853,798.80	404,533.93	-99.36		0.00
1st Bone Spring Sand											
9,800.0	6.00	338.00	9,794.2	6,691.2	106.6	-43.1	853,795.88	404,541.16	-106.59		0.00
9,900.0	6.00	338.00	9,893.6	6,790.6	116.3	-47.0	853,791.97	404,550.85	-116.28		0.00
10,000.0	6.00	338.00	9,993.1	6,890.1	126.0	-50.9	853,788.05	404,560.54	-125.96		0.00
10,100.0	6.00	338.00	10,092.5	6,989.5	135.7	-54.8	853,784.14	404,570.23	-135.65		0.00
10,200.0	6.00	338.00	10,192.0	7,089.0	145.4	-58.7	853,780.22	404,579.92	-145.34		0.00
10,228.2	6.00	338.00	10,220.0	7,117.0	148.1	-59.8	853,779.12	404,582.66	-148.07		0.00
2nd Bone Spring Sand											
10,300.0	6.00	338.00	10,291.4	7,188.4	155.1	-62.7	853,776.30	404,589.62	-155.03		0.00
10,400.0	6.00	338.00	10,390.9	7,287.9	164.8	-66.6	853,772.39	404,599.31	-164.72		0.00
10,500.0	6.00	338.00	10,490.3	7,387.3	174.5	-70.5	853,768.47	404,609.00	-174.41		0.00
10,590.2	6.00	338.00	10,580.0	7,477.0	183.2	-74.0	853,764.94	404,617.74	-183.15		0.00
2nd Bone Spring Lime											
10,600.0	6.00	338.00	10,589.8	7,486.8	184.2	-74.4	853,764.56	404,618.69	-184.10		0.00
10,700.0	6.00	338.00	10,689.2	7,586.2	193.8	-78.3	853,760.64	404,628.38	-193.79		0.00

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
Project:	Sioux 25-36 State Fed Com 3H	TVD Reference:	WELL @ 3103.0usft (Original Well Elev)
Site:	Sioux 25-36 State Fed Com 3H	MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
10,800.0	6.00	338.00	10,788.7	7,685.7	203.5	-82.2	853,756.73	404,638.07	-203.47	0.00	
10,900.0	6.00	338.00	10,888.1	7,785.1	213.2	-86.1	853,752.81	404,647.77	-213.16	0.00	
11,000.0	6.00	338.00	10,987.6	7,884.6	222.9	-90.1	853,748.89	404,657.46	-222.85	0.00	
11,100.0	6.00	338.00	11,087.0	7,984.0	232.6	-94.0	853,744.98	404,667.15	-232.54	0.00	
11,200.0	6.00	338.00	11,186.5	8,083.5	242.3	-97.9	853,741.06	404,676.84	-242.23	0.00	
11,300.0	6.00	338.00	11,285.9	8,182.9	252.0	-101.8	853,737.15	404,686.53	-251.92	0.00	
11,370.0	6.00	338.00	11,355.6	8,252.6	258.8	-104.6	853,734.41	404,693.32	-258.70	0.00	
Start Drop -3.00											
11,400.0	5.10	338.00	11,385.4	8,282.4	261.5	-105.6	853,733.32	404,696.01	-261.39	3.00	
11,500.0	2.10	338.00	11,485.2	8,382.2	267.3	-108.0	853,730.97	404,701.83	-267.21	3.00	
11,570.0	0.00	0.00	11,555.2	8,452.2	268.5	-108.5	853,730.49	404,703.02	-268.40	3.00	
Start 32.0 hold at 11570.0 MD											
11,600.0	0.00	0.00	11,585.2	8,482.2	268.5	-108.5	853,730.49	404,703.02	-268.40	0.00	
11,602.0	0.00	179.45	11,587.2	8,484.2	268.5	-108.5	853,730.49	404,703.02	-268.40	0.00	
Start Build 11.95											
11,624.8	2.73	179.45	11,610.0	8,507.0	267.9	-108.5	853,730.49	404,702.47	-267.86	11.95	
3rd Bone Spring Sand											
11,700.0	11.72	179.45	11,684.5	8,581.5	258.5	-108.4	853,730.58	404,693.03	-258.42	11.95	
11,800.0	23.67	179.45	11,779.6	8,676.6	228.2	-108.1	853,730.87	404,662.70	-228.08	11.95	
11,900.0	35.62	179.45	11,866.4	8,763.4	178.8	-107.6	853,731.35	404,613.33	-178.71	11.95	
11,949.5	41.54	179.45	11,905.0	8,802.0	148.0	-107.3	853,731.64	404,582.50	-147.88	11.95	
Wolfcamp											
12,000.0	47.58	179.45	11,941.0	8,838.0	112.5	-107.0	853,731.98	404,547.05	-112.44	11.95	
12,100.0	59.53	179.45	12,000.3	8,897.3	32.2	-106.2	853,732.76	404,466.76	-32.14	11.95	
12,200.0	71.49	179.45	12,041.7	8,938.7	-58.6	-105.3	853,733.63	404,375.92	58.69	11.95	
12,300.0	83.44	179.45	12,063.3	8,960.3	-156.1	-104.4	853,734.56	404,278.49	156.13	11.95	
12,350.0	89.42	179.45	12,066.4	8,963.4	-205.9	-103.9	853,735.04	404,228.61	206.00	11.95	
Start Turn 0.00											

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
Project:	Sioux 25-36 State Fed Com 3H	TVD Reference:	WELL @ 3103.0usft (Original Well Elev)
Site:	Sioux 25-36 State Fed Com 3H	MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)	
12,400.0	89.42	179.45	12,067.0	8,964.0	-255.9	-103.4	853,735.52	404,178.62	256.00	0.00	
12,500.0	89.42	179.45	12,068.0	8,965.0	-355.9	-102.5	853,736.48	404,078.63	355.99	0.00	
12,600.0	89.42	179.45	12,069.0	8,966.0	-455.9	-101.5	853,737.44	403,978.64	455.98	0.00	
12,700.0	89.42	179.45	12,070.0	8,967.0	-555.9	-100.6	853,738.40	403,878.64	555.97	0.00	
12,800.0	89.42	179.45	12,071.0	8,968.0	-655.9	-99.6	853,739.36	403,778.65	655.96	0.00	
12,900.0	89.42	179.45	12,072.0	8,969.0	-755.9	-98.6	853,740.32	403,678.66	755.95	0.00	
13,000.0	89.42	179.45	12,073.0	8,970.0	-855.9	-97.7	853,741.28	403,578.67	855.94	0.00	
13,100.0	89.42	179.45	12,074.0	8,971.0	-955.9	-96.7	853,742.24	403,478.68	955.93	0.00	
13,200.0	89.42	179.45	12,075.1	8,972.1	-1,055.8	-95.8	853,743.20	403,378.69	1,055.92	0.00	
13,300.0	89.42	179.45	12,076.1	8,973.1	-1,155.8	-94.8	853,744.16	403,278.70	1,155.90	0.00	
13,400.0	89.42	179.45	12,077.1	8,974.1	-1,255.8	-93.8	853,745.12	403,178.71	1,255.89	0.00	
13,500.0	89.42	179.45	12,078.1	8,975.1	-1,355.8	-92.9	853,746.08	403,078.72	1,355.88	0.00	
13,600.0	89.42	179.45	12,079.1	8,976.1	-1,455.8	-91.9	853,747.04	402,978.73	1,455.87	0.00	
13,700.0	89.42	179.45	12,080.1	8,977.1	-1,555.8	-91.0	853,748.00	402,878.74	1,555.86	0.00	
13,800.0	89.42	179.45	12,081.1	8,978.1	-1,655.8	-90.0	853,748.96	402,778.75	1,655.85	0.00	
13,900.0	89.42	179.45	12,082.1	8,979.1	-1,755.8	-89.0	853,749.92	402,678.76	1,755.84	0.00	
14,000.0	89.42	179.45	12,083.1	8,980.1	-1,855.8	-88.1	853,750.88	402,578.77	1,855.83	0.00	
14,100.0	89.42	179.45	12,084.2	8,981.2	-1,955.8	-87.1	853,751.84	402,478.78	1,955.82	0.00	
14,200.0	89.42	179.45	12,085.2	8,982.2	-2,055.7	-86.2	853,752.80	402,378.79	2,055.81	0.00	
14,300.0	89.42	179.45	12,086.2	8,983.2	-2,155.7	-85.2	853,753.76	402,278.80	2,155.80	0.00	
14,400.0	89.42	179.45	12,087.2	8,984.2	-2,255.7	-84.2	853,754.72	402,178.81	2,255.79	0.00	
14,500.0	89.42	179.45	12,088.2	8,985.2	-2,355.7	-83.3	853,755.68	402,078.82	2,355.78	0.00	
14,600.0	89.42	179.45	12,089.2	8,986.2	-2,455.7	-82.3	853,756.64	401,978.83	2,455.77	0.00	
14,700.0	89.42	179.45	12,090.2	8,987.2	-2,555.7	-81.4	853,757.60	401,878.84	2,555.76	0.00	
14,800.0	89.42	179.45	12,091.2	8,988.2	-2,655.7	-80.4	853,758.56	401,778.85	2,655.75	0.00	
14,900.0	89.42	179.45	12,092.3	8,989.3	-2,755.7	-79.4	853,759.52	401,678.86	2,755.74	0.00	
15,000.0	89.42	179.45	12,093.3	8,990.3	-2,855.7	-78.5	853,760.48	401,578.87	2,855.73	0.00	

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
Project:	Sioux 25-36 State Fed Com 3H	TVD Reference:	WELL @ 3103.0usft (Original Well Elev)
Site:	Sioux 25-36 State Fed Com 3H	MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
15,100.0	89.42	179.45	12,094.3	8,991.3	-2,955.7	-77.5	853,761.44	401,478.88	2,955.72	0.00
15,200.0	89.42	179.45	12,095.3	8,992.3	-3,055.7	-76.6	853,762.40	401,378.89	3,055.71	0.00
15,300.0	89.42	179.45	12,096.3	8,993.3	-3,155.6	-75.6	853,763.36	401,278.90	3,155.70	0.00
15,400.0	89.42	179.45	12,097.3	8,994.3	-3,255.6	-74.6	853,764.32	401,178.91	3,255.69	0.00
15,500.0	89.42	179.45	12,098.3	8,995.3	-3,355.6	-73.7	853,765.28	401,078.92	3,355.67	0.00
15,600.0	89.42	179.45	12,099.3	8,996.3	-3,455.6	-72.7	853,766.24	400,978.93	3,455.66	0.00
15,700.0	89.42	179.45	12,100.4	8,997.4	-3,555.6	-71.8	853,767.20	400,878.94	3,555.65	0.00
15,800.0	89.42	179.45	12,101.4	8,998.4	-3,655.6	-70.8	853,768.16	400,778.95	3,655.64	0.00
15,900.0	89.42	179.45	12,102.4	8,999.4	-3,755.6	-69.8	853,769.12	400,678.96	3,755.63	0.00
16,000.0	89.42	179.45	12,103.4	9,000.4	-3,855.6	-68.9	853,770.08	400,578.97	3,855.62	0.00
16,100.0	89.42	179.45	12,104.4	9,001.4	-3,955.6	-67.9	853,771.04	400,478.98	3,955.61	0.00
16,200.0	89.42	179.45	12,105.4	9,002.4	-4,055.6	-67.0	853,772.00	400,378.99	4,055.60	0.00
16,300.0	89.42	179.45	12,106.4	9,003.4	-4,155.5	-66.0	853,772.96	400,279.00	4,155.59	0.00
16,400.0	89.42	179.45	12,107.4	9,004.4	-4,255.5	-65.0	853,773.92	400,179.00	4,255.58	0.00
16,500.0	89.42	179.45	12,108.5	9,005.5	-4,355.5	-64.1	853,774.88	400,079.01	4,355.57	0.00
16,600.0	89.42	179.45	12,109.5	9,006.5	-4,455.5	-63.1	853,775.84	399,979.02	4,455.56	0.00
16,700.0	89.42	179.45	12,110.5	9,007.5	-4,555.5	-62.2	853,776.80	399,879.03	4,555.55	0.00
16,800.0	89.42	179.45	12,111.5	9,008.5	-4,655.5	-61.2	853,777.76	399,779.04	4,655.54	0.00
16,900.0	89.42	179.45	12,112.5	9,009.5	-4,755.5	-60.2	853,778.72	399,679.05	4,755.53	0.00
17,000.0	89.42	179.45	12,113.5	9,010.5	-4,855.5	-59.3	853,779.68	399,579.06	4,855.52	0.00
17,100.0	89.42	179.45	12,114.5	9,011.5	-4,955.5	-58.3	853,780.64	399,479.07	4,955.51	0.00
17,200.0	89.42	179.45	12,115.5	9,012.5	-5,055.5	-57.4	853,781.60	399,379.08	5,055.50	0.00
17,300.0	89.42	179.45	12,116.6	9,013.6	-5,155.4	-56.4	853,782.56	399,279.09	5,155.49	0.00
17,400.0	89.42	179.45	12,117.6	9,014.6	-5,255.4	-55.4	853,783.51	399,179.10	5,255.48	0.00
17,500.0	89.42	179.45	12,118.6	9,015.6	-5,355.4	-54.5	853,784.47	399,079.11	5,355.47	0.00
17,600.0	89.42	179.45	12,119.6	9,016.6	-5,455.4	-53.5	853,785.43	398,979.12	5,455.46	0.00
17,700.0	89.42	179.45	12,120.6	9,017.6	-5,555.4	-52.6	853,786.39	398,879.13	5,555.44	0.00

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
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Site:	Sioux 25-36 State Fed Com 3H	MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
17,800.0	89.42	179.45	12,121.6	9,018.6	-5,655.4	-51.6	853,787.35	398,779.14	5,655.43	0.00
17,900.0	89.42	179.45	12,122.6	9,019.6	-5,755.4	-50.6	853,788.31	398,679.15	5,755.42	0.00
18,000.0	89.42	179.45	12,123.6	9,020.6	-5,855.4	-49.7	853,789.27	398,579.16	5,855.41	0.00
18,100.0	89.42	179.45	12,124.7	9,021.7	-5,955.4	-48.7	853,790.23	398,479.17	5,955.40	0.00
18,200.0	89.42	179.45	12,125.7	9,022.7	-6,055.4	-47.8	853,791.19	398,379.18	6,055.39	0.00
18,300.0	89.42	179.45	12,126.7	9,023.7	-6,155.3	-46.8	853,792.15	398,279.19	6,155.38	0.00
18,400.0	89.42	179.45	12,127.7	9,024.7	-6,255.3	-45.8	853,793.11	398,179.20	6,255.37	0.00
18,500.0	89.42	179.45	12,128.7	9,025.7	-6,355.3	-44.9	853,794.07	398,079.21	6,355.36	0.00
18,600.0	89.42	179.45	12,129.7	9,026.7	-6,455.3	-43.9	853,795.03	397,979.22	6,455.35	0.00
18,700.0	89.42	179.45	12,130.7	9,027.7	-6,555.3	-43.0	853,795.99	397,879.23	6,555.34	0.00
18,800.0	89.42	179.45	12,131.7	9,028.7	-6,655.3	-42.0	853,796.95	397,779.24	6,655.33	0.00
18,900.0	89.42	179.45	12,132.8	9,029.8	-6,755.3	-41.0	853,797.91	397,679.25	6,755.32	0.00
19,000.0	89.42	179.45	12,133.8	9,030.8	-6,855.3	-40.1	853,798.87	397,579.26	6,855.31	0.00
19,100.0	89.42	179.45	12,134.8	9,031.8	-6,955.3	-39.1	853,799.83	397,479.27	6,955.30	0.00
19,200.0	89.42	179.45	12,135.8	9,032.8	-7,055.3	-38.2	853,800.79	397,379.28	7,055.29	0.00
19,300.0	89.42	179.45	12,136.8	9,033.8	-7,155.3	-37.2	853,801.75	397,279.29	7,155.28	0.00
19,400.0	89.42	179.45	12,137.8	9,034.8	-7,255.2	-36.2	853,802.71	397,179.30	7,255.27	0.00
19,500.0	89.42	179.45	12,138.8	9,035.8	-7,355.2	-35.3	853,803.67	397,079.31	7,355.26	0.00
19,600.0	89.42	179.45	12,139.8	9,036.8	-7,455.2	-34.3	853,804.63	396,979.32	7,455.25	0.00
19,700.0	89.42	179.45	12,140.8	9,037.8	-7,555.2	-33.4	853,805.59	396,879.33	7,555.24	0.00
19,800.0	89.42	179.45	12,141.9	9,038.9	-7,655.2	-32.4	853,806.55	396,779.34	7,655.23	0.00
19,900.0	89.42	179.45	12,142.9	9,039.9	-7,755.2	-31.4	853,807.51	396,679.35	7,755.21	0.00
20,000.0	89.42	179.45	12,143.9	9,040.9	-7,855.2	-30.5	853,808.47	396,579.36	7,855.20	0.00
20,100.0	89.42	179.45	12,144.9	9,041.9	-7,955.2	-29.5	853,809.43	396,479.36	7,955.19	0.00
20,200.0	89.42	179.45	12,145.9	9,042.9	-8,055.2	-28.6	853,810.39	396,379.37	8,055.18	0.00
20,300.0	89.42	179.45	12,146.9	9,043.9	-8,155.2	-27.6	853,811.35	396,279.38	8,155.17	0.00
20,400.0	89.42	179.45	12,147.9	9,044.9	-8,255.1	-26.6	853,812.31	396,179.39	8,255.16	0.00

Company:	Caza Operating LLC	Local Co-ordinate Reference:	Well Sioux 25-36 State Fed Com 3H
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Site:	Sioux 25-36 State Fed Com 3H	MD Reference:	WELL @ 3103.0usft (Original Well Elev)
Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
20,500.0	89.42	179.45	12,148.9	9,045.9	-8,355.1	-25.7	853,813.27	396,079.40	8,355.15	0.00
20,600.0	89.42	179.45	12,150.0	9,047.0	-8,455.1	-24.7	853,814.23	395,979.41	8,455.14	0.00
20,700.0	89.42	179.45	12,151.0	9,048.0	-8,555.1	-23.8	853,815.19	395,879.42	8,555.13	0.00
20,800.0	89.42	179.45	12,152.0	9,049.0	-8,655.1	-22.8	853,816.15	395,779.43	8,655.12	0.00
20,900.0	89.42	179.45	12,153.0	9,050.0	-8,755.1	-21.8	853,817.11	395,679.44	8,755.11	0.00
21,000.0	89.42	179.45	12,154.0	9,051.0	-8,855.1	-20.9	853,818.07	395,579.45	8,855.10	0.00
21,100.0	89.42	179.45	12,155.0	9,052.0	-8,955.1	-19.9	853,819.03	395,479.46	8,955.09	0.00
21,200.0	89.42	179.45	12,156.0	9,053.0	-9,055.1	-19.0	853,819.99	395,379.47	9,055.08	0.00
21,300.0	89.42	179.45	12,157.0	9,054.0	-9,155.1	-18.0	853,820.95	395,279.48	9,155.07	0.00
21,400.0	89.42	179.45	12,158.1	9,055.1	-9,255.0	-17.1	853,821.91	395,179.49	9,255.06	0.00
21,500.0	89.42	179.45	12,159.1	9,056.1	-9,355.0	-16.1	853,822.87	395,079.50	9,355.05	0.00
21,600.0	89.42	179.45	12,160.1	9,057.1	-9,455.0	-15.1	853,823.83	394,979.51	9,455.04	0.00
21,700.0	89.42	179.45	12,161.1	9,058.1	-9,555.0	-14.2	853,824.79	394,879.52	9,555.03	0.00
21,800.0	89.42	179.45	12,162.1	9,059.1	-9,655.0	-13.2	853,825.75	394,779.53	9,655.02	0.00
21,900.0	89.42	179.45	12,163.1	9,060.1	-9,755.0	-12.3	853,826.71	394,679.54	9,755.01	0.00
22,000.0	89.42	179.45	12,164.1	9,061.1	-9,855.0	-11.3	853,827.67	394,579.55	9,855.00	0.00
22,100.0	89.42	179.45	12,165.1	9,062.1	-9,955.0	-10.3	853,828.63	394,479.56	9,954.98	0.00
22,200.0	89.42	179.45	12,166.2	9,063.2	-10,055.0	-9.4	853,829.59	394,379.57	10,054.97	0.00
22,300.0	89.42	179.45	12,167.2	9,064.2	-10,155.0	-8.4	853,830.55	394,279.58	10,154.96	0.00
22,400.0	89.42	179.45	12,168.2	9,065.2	-10,255.0	-7.5	853,831.51	394,179.59	10,254.95	0.00

TD at 22400.0 - 5 1/2" Production Casing

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Well:	Sioux 25-36 State Fed Com 3H	North Reference:	Grid
Wellbore:	Sioux 25-36 State Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Design:	190102 Sioux 25-36 State Fed Com 3H	Database:	EDM 5000.1 Single User Db

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
120.0	120.0	20" Conductor	20	26	
1,115.0	1,115.0	13 3/8" Surface Casing	13-3/8	17-1/2	
8,600.0	8,600.0	9 5/8" Intermediate Casing	9-5/8	12-1/4	
22,400.0	12,168.2	5 1/2" Production Casing	5-1/2	8-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,330.0	8,330.0	Lower Brushy Canyon	Anhydrite	0.00	
10,228.2	10,220.0	2nd Bone Spring Sand		0.00	
7,320.0	7,320.0	Brushy Canyon		0.00	
1,140.0	1,140.0	Top of Salt		0.00	
8,575.0	8,575.0	Bone Spring		0.00	
5,660.0	5,660.0	Cherry Canyon		0.00	
9,725.4	9,720.0	1st Bone Spring Sand		0.00	
2,465.0	2,465.0	Base of Salt		0.00	
4,940.0	4,940.0	Delaware		0.00	
760.0	760.0	Rustler		0.00	
10,590.2	10,580.0	2nd Bone Spring Lime		0.00	
11,949.5	11,905.0	Wolfcamp		0.00	
11,624.8	11,610.0	3rd Bone Spring Sand		0.00	

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Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,600.0	8,600.0	0.0	0.0	Start Build 3.00	
8,800.0	8,799.6	9.7	-3.9	Start 2570.0 hold at 8800.0 MD	
11,370.0	11,355.6	258.8	-104.6	Start Drop -3.00	
11,570.0	11,555.2	268.5	-108.5	Start 32.0 hold at 11570.0 MD	
11,602.0	11,587.2	268.5	-108.5	Start Build 11.95	
12,350.0	12,066.4	-205.9	-103.9	Start Turn 0.00	
22,400.0	12,168.2	-10,255.0	-7.5	TD at 22400.0	

Checked By: _____ Approved By: _____ Date: _____