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Caza Oil and Gas

Caza Ridge

Caza Ridge

Caza Ridge 14 State 6H

Caza Ridge 14 State 6H

Plan: 20170113 Caza Ridge 14 State 6H

MOJO Standard Plan

13 January, 2017

30-025-43543

MOJO Standard Plan

Company:	Caza Oil and Gas	Local Co-ordinate Reference:	Site Caza Ridge
Project:	Caza Ridge	TVD Reference:	WELL @ 3400.0usft (Original Well Elev)
Site:	Caza Ridge	MD Reference:	WELL @ 3400.0usft (Original Well Elev)
Well:	Caza Ridge 14 State 6H	North Reference:	Grid
Wellbore:	Caza Ridge 14 State 6H	Survey Calculation Method:	Minimum Curvature
Design:	20170113 Caza Ridge 14 State 6H	Database:	EDM 5000.1 Single User Db

Project	Caza Ridge		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Caza Ridge		
Site Position:		Northing:	473,270.54 usft
From:	Lat/Long	Easting:	817,203.27 usft
Position Uncertainty:	1.0 usft	Slot Radius:	17-1/2 "
		Latitude:	32° 17' 52.573 N
		Longitude:	103° 26' 25.894 W
		Grid Convergence:	0.48 °

Well	Caza Ridge 14 State 6H		
Well Position	+N/-S	0.0 usft	Northing: 473,270.54 usft
	+E/-W	0.0 usft	Easting: 817,203.27 usft
Position Uncertainty	1.0 usft		Wellhead Elevation: 0.0 usft
			Latitude: 32° 17' 52.573 N
			Longitude: 103° 26' 25.894 W
			Ground Level: 3,378.0 usft

Wellbore	Caza Ridge 14 State 6H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/13/2017	6.84	60.13	48,116

Design	20170113 Caza Ridge 14 State 6H			
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	3.16

Survey Tool Program	Date	1/13/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,380.0	20170113 Caza Ridge 14 State 6H (Caza	MWD	MWD - Standard	

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Wellbore:	Caza Ridge 14 State 6H	Survey Calculation Method:	Minimum Curvature
Design:	20170113 Caza Ridge 14 State 6H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
100.0	0.00	0.00	100.0	-3,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
200.0	0.00	0.00	200.0	-3,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
300.0	0.00	0.00	300.0	-3,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
400.0	0.00	0.00	400.0	-3,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
500.0	0.00	0.00	500.0	-2,900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
600.0	0.00	0.00	600.0	-2,800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
700.0	0.00	0.00	700.0	-2,700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
800.0	0.00	0.00	800.0	-2,600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
900.0	0.00	0.00	900.0	-2,500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,000.0	0.00	0.00	1,000.0	-2,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,100.0	0.00	0.00	1,100.0	-2,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,200.0	0.00	0.00	1,200.0	-2,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,300.0	0.00	0.00	1,300.0	-2,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,400.0	0.00	0.00	1,400.0	-2,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,500.0	0.00	0.00	1,500.0	-1,900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,600.0	0.00	0.00	1,600.0	-1,800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,700.0	0.00	0.00	1,700.0	-1,700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,800.0	0.00	0.00	1,800.0	-1,600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
1,900.0	0.00	0.00	1,900.0	-1,500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,000.0	0.00	0.00	2,000.0	-1,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,100.0	0.00	0.00	2,100.0	-1,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,200.0	0.00	0.00	2,200.0	-1,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,300.0	0.00	0.00	2,300.0	-1,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,400.0	0.00	0.00	2,400.0	-1,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,500.0	0.00	0.00	2,500.0	-900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,600.0	0.00	0.00	2,600.0	-800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	

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Wellbore:	Caza Ridge 14 State 6H	Survey Calculation Method:	Minimum Curvature
Design:	20170113 Caza Ridge 14 State 6H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,800.0	0.00	0.00	2,800.0	-600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
2,900.0	0.00	0.00	2,900.0	-500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,000.0	0.00	0.00	3,000.0	-400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,100.0	0.00	0.00	3,100.0	-300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,200.0	0.00	0.00	3,200.0	-200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,300.0	0.00	0.00	3,300.0	-100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,500.0	0.00	0.00	3,500.0	100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,600.0	0.00	0.00	3,600.0	200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,700.0	0.00	0.00	3,700.0	300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,800.0	0.00	0.00	3,800.0	400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
3,900.0	0.00	0.00	3,900.0	500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,000.0	0.00	0.00	4,000.0	600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,100.0	0.00	0.00	4,100.0	700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,200.0	0.00	0.00	4,200.0	800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,300.0	0.00	0.00	4,300.0	900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,400.0	0.00	0.00	4,400.0	1,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,500.0	0.00	0.00	4,500.0	1,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,600.0	0.00	0.00	4,600.0	1,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,700.0	0.00	0.00	4,700.0	1,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,800.0	0.00	0.00	4,800.0	1,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
4,900.0	0.00	0.00	4,900.0	1,500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
5,000.0	0.00	0.00	5,000.0	1,600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
5,100.0	0.00	0.00	5,100.0	1,700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
5,200.0	0.00	0.00	5,200.0	1,800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	
5,300.0	0.00	0.00	5,300.0	1,900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27	

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Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
5,400.0	0.00	0.00	5,400.0	2,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
5,500.0	0.00	0.00	5,500.0	2,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
5,600.0	0.00	0.00	5,600.0	2,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
5,700.0	0.00	0.00	5,700.0	2,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
5,800.0	0.00	0.00	5,800.0	2,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
5,900.0	0.00	0.00	5,900.0	2,500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,000.0	0.00	0.00	6,000.0	2,600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,100.0	0.00	0.00	6,100.0	2,700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,200.0	0.00	0.00	6,200.0	2,800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,300.0	0.00	0.00	6,300.0	2,900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,400.0	0.00	0.00	6,400.0	3,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,500.0	0.00	0.00	6,500.0	3,100.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,600.0	0.00	0.00	6,600.0	3,200.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,700.0	0.00	0.00	6,700.0	3,300.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,800.0	0.00	0.00	6,800.0	3,400.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
6,900.0	0.00	0.00	6,900.0	3,500.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,000.0	0.00	0.00	7,000.0	3,600.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,100.0	0.00	0.00	7,100.0	3,700.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,200.0	0.00	0.00	7,200.0	3,800.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,300.0	0.00	0.00	7,300.0	3,900.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,400.0	0.00	90.00	7,400.0	4,000.0	0.0	0.0	0.0	0.00	473,270.54	817,203.27		
7,500.0	3.00	90.00	7,500.0	4,100.0	0.0	2.6	0.1	3.00	473,270.54	817,205.88		
7,600.0	6.00	90.00	7,599.6	4,199.6	0.0	10.5	0.6	3.00	473,270.54	817,213.73		
7,700.0	6.00	90.00	7,699.1	4,299.1	0.0	20.9	1.2	0.00	473,270.54	817,224.18		
7,800.0	6.00	90.00	7,798.5	4,398.5	0.0	31.4	1.7	0.00	473,270.54	817,234.63		
7,900.0	6.00	90.00	7,898.0	4,498.0	0.0	41.8	2.3	0.00	473,270.54	817,245.09		
8,000.0	6.00	90.00	7,997.4	4,597.4	0.0	52.3	2.9	0.00	473,270.54	817,255.54		

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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.0	6.00	90.00	8,096.9	4,696.9	0.0	62.7	3.5	0.00	473,270.54	817,265.99
8,200.0	6.00	90.00	8,196.3	4,796.3	0.0	73.2	4.0	0.00	473,270.54	817,276.45
8,300.0	6.00	90.00	8,295.8	4,895.8	0.0	83.6	4.6	0.00	473,270.54	817,286.90
8,400.0	16.00	62.00	8,393.9	4,993.9	6.5	101.1	12.1	11.06	473,277.03	817,304.35
8,500.0	26.00	49.00	8,487.2	5,087.2	27.4	129.9	34.5	10.97	473,297.95	817,333.15
8,600.0	35.00	37.00	8,573.3	5,173.3	64.8	163.8	73.7	10.83	473,335.34	817,367.05
8,700.0	44.00	27.00	8,650.5	5,250.5	118.8	196.9	129.5	11.00	473,389.36	817,400.18
8,800.0	53.00	18.50	8,716.8	5,316.8	187.8	225.4	200.0	11.01	473,458.39	817,428.70
8,900.0	62.00	10.90	8,770.5	5,370.5	269.3	246.5	282.5	11.04	473,539.86	817,449.79
9,000.0	71.00	4.00	8,810.4	5,410.4	360.1	258.2	373.8	11.00	473,630.65	817,461.47
9,100.0	81.30	0.00	8,834.3	5,434.3	457.0	261.5	470.7	11.01	473,727.53	817,464.78
9,181.0	90.20	0.00	8,840.3	5,440.3	537.7	261.5	551.3	10.99	473,808.23	817,464.78
9,200.0	90.20	0.00	8,840.2	5,440.2	556.7	261.5	570.3	0.00	473,827.23	817,464.78
9,300.0	90.20	0.00	8,839.9	5,439.9	656.7	261.5	670.1	0.00	473,927.23	817,464.78
9,400.0	90.20	0.00	8,839.5	5,439.5	756.7	261.5	770.0	0.00	474,027.23	817,464.78
9,500.0	90.20	0.00	8,839.2	5,439.2	856.7	261.5	869.8	0.00	474,127.23	817,464.78
9,600.0	90.20	0.00	8,838.8	5,438.8	956.7	261.5	969.6	0.00	474,227.22	817,464.78
9,700.0	90.20	0.00	8,838.5	5,438.5	1,056.7	261.5	1,069.5	0.00	474,327.22	817,464.78
9,800.0	90.20	0.00	8,838.1	5,438.1	1,156.7	261.5	1,169.3	0.00	474,427.22	817,464.78
9,900.0	90.20	0.00	8,837.8	5,437.8	1,256.7	261.5	1,269.2	0.00	474,527.22	817,464.78
10,000.0	90.20	0.00	8,837.4	5,437.4	1,356.7	261.5	1,369.0	0.00	474,627.22	817,464.78
10,100.0	90.20	0.00	8,837.1	5,437.1	1,456.7	261.5	1,468.9	0.00	474,727.22	817,464.78
10,200.0	90.20	0.00	8,836.7	5,436.7	1,556.7	261.5	1,568.7	0.00	474,827.22	817,464.78
10,300.0	90.20	0.00	8,836.4	5,436.4	1,656.7	261.5	1,668.6	0.00	474,927.22	817,464.78
10,400.0	90.20	0.00	8,836.0	5,436.0	1,756.7	261.5	1,768.4	0.00	475,027.22	817,464.78
10,500.0	90.20	0.00	8,835.7	5,435.7	1,856.7	261.5	1,868.3	0.00	475,127.22	817,464.78
10,600.0	90.20	0.00	8,835.3	5,435.3	1,956.7	261.5	1,968.1	0.00	475,227.22	817,464.78

MOJO Standard Plan

Company:	Caza Oil and Gas	Local Co-ordinate Reference:	Site Caza Ridge
Project:	Caza Ridge	TVD Reference:	WELL @ 3400.0usft (Original Well Elev)
Site:	Caza Ridge	MD Reference:	WELL @ 3400.0usft (Original Well Elev)
Well:	Caza Ridge 14 State 6H	North Reference:	Grid
Wellbore:	Caza Ridge 14 State 6H	Survey Calculation Method:	Minimum Curvature
Design:	20170113 Caza Ridge 14 State 6H	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,700.0	90.20	0.00	8,835.0	5,435.0	2,056.7	261.5	2,068.0	0.00	475,327.22	817,464.78
10,800.0	90.20	0.00	8,834.6	5,434.6	2,156.7	261.5	2,167.8	0.00	475,427.22	817,464.78
10,900.0	90.20	0.00	8,834.3	5,434.3	2,256.7	261.5	2,267.7	0.00	475,527.22	817,464.78
11,000.0	90.20	0.00	8,833.9	5,433.9	2,356.7	261.5	2,367.5	0.00	475,627.22	817,464.78
11,100.0	90.20	0.00	8,833.6	5,433.6	2,456.7	261.5	2,467.4	0.00	475,727.22	817,464.78
11,200.0	90.20	0.00	8,833.2	5,433.2	2,556.7	261.5	2,567.2	0.00	475,827.22	817,464.78
11,300.0	90.20	0.00	8,832.9	5,432.9	2,656.7	261.5	2,667.0	0.00	475,927.21	817,464.78
11,400.0	90.20	0.00	8,832.5	5,432.5	2,756.7	261.5	2,766.9	0.00	476,027.21	817,464.78
11,500.0	90.20	0.00	8,832.2	5,432.2	2,856.7	261.5	2,866.7	0.00	476,127.21	817,464.78
11,600.0	90.20	0.00	8,831.8	5,431.8	2,956.7	261.5	2,966.6	0.00	476,227.21	817,464.78
11,700.0	90.20	0.00	8,831.5	5,431.5	3,056.7	261.5	3,066.4	0.00	476,327.21	817,464.78
11,800.0	90.20	0.00	8,831.1	5,431.1	3,156.7	261.5	3,166.3	0.00	476,427.21	817,464.78
11,900.0	90.20	0.00	8,830.8	5,430.8	3,256.7	261.5	3,266.1	0.00	476,527.21	817,464.78
12,000.0	90.20	0.00	8,830.4	5,430.4	3,356.7	261.5	3,366.0	0.00	476,627.21	817,464.78
12,100.0	90.20	0.00	8,830.1	5,430.1	3,456.7	261.5	3,465.8	0.00	476,727.21	817,464.78
12,200.0	90.20	0.00	8,829.7	5,429.7	3,556.7	261.5	3,565.7	0.00	476,827.21	817,464.78
12,300.0	90.20	0.00	8,829.4	5,429.4	3,656.7	261.5	3,665.5	0.00	476,927.21	817,464.78
12,400.0	90.20	0.00	8,829.0	5,429.0	3,756.7	261.5	3,765.4	0.00	477,027.21	817,464.78
12,500.0	90.20	0.00	8,828.7	5,428.7	3,856.7	261.5	3,865.2	0.00	477,127.21	817,464.78
12,600.0	90.20	0.00	8,828.3	5,428.3	3,956.7	261.5	3,965.1	0.00	477,227.21	817,464.78
12,700.0	90.20	0.00	8,828.0	5,428.0	4,056.7	261.5	4,064.9	0.00	477,327.21	817,464.78
12,800.0	90.20	0.00	8,827.6	5,427.6	4,156.7	261.5	4,164.8	0.00	477,427.21	817,464.78
12,900.0	90.20	0.00	8,827.3	5,427.3	4,256.7	261.5	4,264.6	0.00	477,527.20	817,464.78
13,000.0	90.20	0.00	8,826.9	5,426.9	4,356.7	261.5	4,364.5	0.00	477,627.20	817,464.78
13,100.0	90.20	0.00	8,826.6	5,426.6	4,456.7	261.5	4,464.3	0.00	477,727.20	817,464.78
13,200.0	90.20	0.00	8,826.2	5,426.2	4,556.7	261.5	4,564.1	0.00	477,827.20	817,464.78
13,300.0	90.20	0.00	8,825.9	5,425.9	4,656.7	261.5	4,664.0	0.00	477,927.20	817,464.78

MOJO Standard Plan

Company:	Caza Oil and Gas	Local Co-ordinate Reference:	Site Caza Ridge
Project:	Caza Ridge	TVD Reference:	WELL @ 3400.0usft (Original Well Elev)
Site:	Caza Ridge	MD Reference:	WELL @ 3400.0usft (Original Well Elev)
Well:	Caza Ridge 14 State 6H	North Reference:	Grid
Wellbore:	Caza Ridge 14 State 6H	Survey Calculation Method:	Minimum Curvature
Design:	20170113 Caza Ridge 14 State 6H	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,380.0	90.20	0.00	8,825.6	5,425.6	4,736.7	261.5	4,743.9	0.00	478,007.20	817,464.78

Checked By: _____	Approved By: _____	Date: _____
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Azimuths to Grid North
 True North: -0.48°
 Magnetic North: 6.36°

Magnetic Field
 Strength: 48115.9snT
 Dip Angle: 60.13°
 Date: 1/13/2017
 Model: IGRF2010



PROJECT DETAILS: Caza Ridge

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

