



NEW OIL CONSERVATION
ARTESIA DISTRICT
MAR 18 2017
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30-015-43296

Mewbourne Oil Company .

Eddy County, New Mexico

Section 31-24S-27E Commodore 30 W2PA Fed 1H

Commodore 30 W2PA Fed 1H

Original Hole

Design: Original Hole

Standard Survey Report

26 July, 2016





Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Commodore 30 W2PA Fed 1H
Project:	Eddy County, New Mexico	TVD Reference:	3418 + 27 @ 3445.0usft (Patterson 250)
Site:	Section 31-24S-27E Commodore 30 W2PA Fed 1H	MD Reference:	3418 + 27 @ 3445.0usft (Patterson 250)
Well:	Commodore 30 W2PA Fed 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
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 Section 31-24S-27E Commodore 30 W2PA Fed 1H

Site Position:		Northing:	429,344.00 usft	Latitude:	32° 10' 49.207 N
From:	Map	Easting:	534,222.00 usft	Longitude:	104° 13' 21.795 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well Commodore 30 W2PA Fed 1H

Well Position	+N/-S	0.0 usft	Northing:	429,344.00 usft	Latitude:	32° 10' 49.207 N
	+E/-W	0.0 usft	Easting:	534,222.00 usft	Longitude:	104° 13' 21.795 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,418.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/20/2016	7.36	59.93	47,952

Design Original Hole

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.25

Survey Program Date 7/26/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,302.0	Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
9,347.0	15,060.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.20	47.53	100.0	0.1	0.1	0.1	0.20	0.20	0.00
200.0	0.25	355.21	200.0	0.5	0.2	0.5	0.20	0.05	-52.32
300.0	0.41	2.43	300.0	1.0	0.2	1.0	0.17	0.16	7.22
400.0	0.16	300.47	400.0	1.5	0.1	1.5	0.36	-0.25	-61.96
500.0	0.52	209.46	500.0	1.1	-0.2	1.1	0.55	0.36	-91.01
600.0	0.24	59.74	600.0	0.8	-0.3	0.8	0.74	-0.28	-149.72
700.0	0.51	216.12	700.0	0.6	-0.3	0.6	0.74	0.27	156.38
800.0	0.51	175.43	800.0	-0.2	-0.6	-0.2	0.35	0.00	-40.69



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Design: Original Hole

Local Co-ordinate Reference: Well Commodore 30 W2PA Fed 1H
TVD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
MD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
900.0	0.70	221.27	900.0	-1.1	-0.9	-1.2	0.50	0.19	45.84
1,000.0	1.44	226.22	1,000.0	-2.4	-2.2	-2.6	0.75	0.74	4.95
1,100.0	1.60	235.72	1,099.9	-4.1	-4.3	-4.3	0.30	0.16	9.50
1,200.0	1.25	255.01	1,199.9	-5.2	-6.5	-5.5	0.59	-0.35	19.29
1,300.0	0.45	129.83	1,299.9	-5.7	-7.3	-6.1	1.55	-0.80	-125.18
1,400.0	0.93	89.96	1,399.9	-6.0	-6.1	-6.3	0.65	0.48	-39.87
1,500.0	1.89	223.04	1,499.9	-7.2	-6.5	-7.5	2.61	0.96	133.08
1,600.0	2.12	104.84	1,599.8	-8.8	-5.8	-9.2	3.44	0.23	-118.20
1,700.0	1.13	75.08	1,699.8	-9.1	-3.1	-9.2	1.27	-0.99	-29.76
1,800.0	1.20	68.74	1,799.8	-8.4	-1.1	-8.5	0.15	0.07	-6.34
1,900.0	1.22	103.88	1,899.8	-8.3	0.9	-8.2	0.73	0.02	35.14
2,000.0	1.30	98.27	1,999.7	-8.7	3.0	-8.5	0.15	0.08	-5.61
2,100.0	1.45	100.99	2,099.7	-9.1	5.4	-8.8	0.16	0.15	2.72
2,200.0	1.24	91.86	2,199.7	-9.4	7.7	-8.9	0.30	-0.21	-9.13
2,300.0	1.32	93.49	2,299.7	-9.5	10.0	-8.9	0.09	0.08	1.63
2,400.0	1.10	76.46	2,399.6	-9.4	12.0	-8.7	0.42	-0.22	-17.03
2,500.0	1.48	82.17	2,499.6	-9.0	14.3	-8.1	0.40	0.38	5.71
2,600.0	0.81	97.49	2,599.6	-8.9	16.2	-7.9	0.73	-0.67	15.32
2,700.0	0.41	169.67	2,699.6	-9.3	17.0	-8.3	0.79	-0.40	72.18
2,800.0	0.18	342.61	2,799.6	-9.5	17.0	-8.5	0.59	-0.23	172.94
2,900.0	0.14	60.98	2,899.6	-9.3	17.1	-8.3	0.20	-0.04	78.37
3,000.0	0.02	332.16	2,999.6	-9.2	17.2	-8.2	0.14	-0.12	-88.82
3,100.0	0.33	180.26	3,099.6	-9.5	17.2	-8.5	0.35	0.31	-151.90
3,200.0	0.34	254.11	3,199.6	-9.9	16.9	-8.9	0.40	0.01	73.85
3,300.0	0.27	319.66	3,299.6	-9.8	16.4	-8.8	0.34	-0.07	65.55
3,400.0	0.38	297.55	3,399.6	-9.4	16.0	-8.5	0.16	0.11	-22.11
3,500.0	0.37	218.10	3,499.6	-9.5	15.5	-8.6	0.48	-0.01	-79.45
3,600.0	0.81	248.87	3,599.6	-10.0	14.6	-9.2	0.53	0.44	30.77
3,700.0	0.70	232.14	3,699.6	-10.7	13.5	-9.9	0.25	-0.11	-16.73
3,800.0	0.58	218.20	3,799.6	-11.5	12.7	-10.7	0.20	-0.12	-13.94
3,900.0	0.62	197.88	3,899.5	-12.4	12.2	-11.7	0.22	0.04	-20.32
4,000.0	0.84	186.52	3,999.5	-13.6	12.0	-12.9	0.26	0.22	-11.36
4,100.0	0.54	219.45	4,099.5	-14.7	11.6	-14.0	0.49	-0.30	32.93
4,200.0	0.66	254.44	4,199.5	-15.2	10.7	-14.6	0.38	0.12	34.99
4,300.0	0.38	202.00	4,299.5	-15.7	10.1	-15.1	0.52	-0.28	-52.44
4,400.0	0.42	236.92	4,399.5	-16.2	9.6	-15.6	0.24	0.04	34.92
4,500.0	0.11	28.17	4,499.5	-16.3	9.4	-15.7	0.52	-0.31	151.25
4,600.0	0.49	188.82	4,599.5	-16.6	9.3	-16.1	0.59	0.38	160.65
4,700.0	0.48	162.99	4,699.5	-17.5	9.4	-16.9	0.22	-0.01	-25.83
4,800.0	0.63	112.76	4,799.5	-18.1	10.0	-17.5	0.49	0.15	-50.23
4,900.0	1.23	165.76	4,899.5	-19.3	10.8	-18.7	0.99	0.60	53.00
5,000.0	0.88	152.29	4,999.5	-21.1	11.4	-20.4	0.43	-0.35	-13.47



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Design: Original Hole

Local Co-ordinate Reference: Well Commodore 30 W2PA Fed 1H
TVD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
5,100.0	0.73	175.01	5,099.5	-22.4	11.8	-21.7	0.35	-0.15	22.72
5,200.0	0.51	176.60	5,199.5	-23.4	11.9	-22.7	0.22	-0.22	1.59
5,300.0	0.72	187.29	5,299.5	-24.5	11.9	-23.8	0.24	0.21	10.69
5,400.0	0.82	229.00	5,399.5	-25.6	11.2	-24.9	0.56	0.10	41.71
5,500.0	0.45	128.93	5,499.4	-26.3	11.0	-25.7	1.00	-0.37	-100.07
5,600.0	0.83	175.89	5,599.4	-27.3	11.4	-26.6	0.62	0.38	46.96
5,700.0	0.92	173.89	5,699.4	-28.8	11.5	-28.1	0.10	0.09	-2.00
5,800.0	0.80	171.64	5,799.4	-30.3	11.7	-29.6	0.12	-0.12	-2.25
5,900.0	1.40	158.30	5,899.4	-32.1	12.2	-31.4	0.65	0.60	-13.34
6,000.0	1.06	153.21	5,999.4	-34.1	13.1	-33.3	0.36	-0.34	-5.09
6,100.0	1.33	161.94	6,099.4	-36.0	13.9	-35.2	0.32	0.27	8.73
6,200.0	1.95	204.89	6,199.3	-38.7	13.5	-37.8	1.33	0.62	42.95
6,300.0	2.13	204.64	6,299.3	-41.9	12.0	-41.1	0.18	0.18	-0.25
6,400.0	3.65	199.22	6,399.1	-46.6	10.2	-45.9	1.54	1.52	-5.42
6,500.0	3.59	194.55	6,498.9	-52.6	8.4	-52.1	0.30	-0.06	-4.67
6,600.0	2.45	207.07	6,598.8	-57.6	6.6	-57.1	1.31	-1.14	12.52
6,700.0	3.16	232.13	6,698.7	-61.2	3.5	-60.9	1.40	0.71	25.06
6,800.0	3.80	230.86	6,798.5	-64.9	-1.3	-64.9	0.64	0.64	-1.27
6,900.0	3.16	231.90	6,898.3	-68.7	-6.0	-69.0	0.64	-0.64	1.04
7,000.0	2.77	242.55	6,998.2	-71.5	-10.3	-72.0	0.67	-0.39	10.65
7,100.0	2.35	242.92	7,098.1	-73.6	-14.3	-74.3	0.42	-0.42	0.37
7,200.0	2.34	245.67	7,198.0	-75.4	-18.0	-76.3	0.11	-0.01	2.75
7,300.0	1.38	267.63	7,297.9	-76.3	-21.0	-77.3	1.18	-0.96	21.96
7,400.0	1.00	273.61	7,397.9	-76.3	-23.1	-77.4	0.40	-0.38	5.98
7,500.0	1.65	250.66	7,497.9	-76.7	-25.3	-78.0	0.83	0.65	-22.95
7,600.0	1.45	258.71	7,597.8	-77.4	-27.9	-78.9	0.30	-0.20	8.05
7,700.0	0.56	3.72	7,697.8	-77.2	-29.2	-78.7	1.68	-0.89	105.01
7,800.0	1.15	7.85	7,797.8	-75.7	-29.0	-77.2	0.59	0.59	4.13
7,900.0	0.22	10.13	7,897.8	-74.5	-28.8	-76.0	0.93	-0.93	2.28
8,000.0	1.06	166.97	7,997.8	-75.2	-28.6	-76.7	1.27	0.84	156.84
8,100.0	1.91	199.23	8,097.8	-77.7	-28.9	-79.2	1.16	0.85	32.26
8,200.0	1.84	188.41	8,197.7	-80.8	-29.7	-82.4	0.36	-0.07	-10.82
8,300.0	0.42	225.84	8,297.7	-82.7	-30.2	-84.3	1.53	-1.42	37.43
8,400.0	0.56	279.19	8,397.7	-82.9	-30.9	-84.5	0.46	0.14	53.35
8,500.0	0.44	94.38	8,497.7	-82.8	-31.0	-84.4	1.00	-0.12	175.19
8,600.0	1.04	123.12	8,597.7	-83.3	-29.9	-84.9	0.69	0.60	28.74
8,700.0	0.91	135.03	8,697.7	-84.4	-28.6	-85.9	0.24	-0.13	11.91
8,800.0	0.70	196.89	8,797.7	-85.5	-28.2	-87.0	0.85	-0.21	61.86
8,900.0	0.79	199.42	8,897.7	-86.8	-28.6	-88.3	0.10	0.09	2.53
9,000.0	0.69	218.50	8,997.6	-87.9	-29.2	-89.4	0.26	-0.10	19.08
9,100.0	1.10	197.78	9,097.6	-89.3	-29.9	-90.8	0.52	0.41	-20.72
9,200.0	1.33	186.88	9,197.6	-91.4	-30.3	-92.9	0.33	0.23	-10.90
9,302.0	1.35	183.66	9,299.6	-93.7	-30.5	-95.3	0.08	0.02	-3.16



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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)
9302' MD Gyro Survey									
9,347.0	1.30	186.80	9,344.6	-94.8	-30.6	-96.3	0.20	-0.11	6.98
9,440.0	0.50	196.20	9,437.6	-96.2	-30.8	-97.8	0.87	-0.86	10.11
9,472.0	4.20	17.40	9,469.5	-95.2	-30.5	-96.8	14.69	11.56	-558.75
9,503.0	9.00	11.60	9,500.3	-91.8	-29.7	-93.3	15.61	15.48	-18.71
9,535.0	13.60	6.30	9,531.7	-85.6	-28.8	-87.1	14.72	14.38	-16.56
9,566.0	16.00	3.60	9,561.7	-77.7	-28.1	-79.1	8.05	7.74	-8.71
9,597.0	17.10	2.20	9,591.4	-68.9	-27.7	-70.3	3.77	3.55	-4.52
9,628.0	16.90	1.10	9,621.0	-59.8	-27.4	-61.3	1.22	-0.65	-3.55
9,659.0	16.20	359.10	9,650.7	-51.0	-27.4	-52.4	2.91	-2.26	-6.45
9,691.0	19.70	359.30	9,681.2	-41.1	-27.5	-42.6	10.94	10.94	0.63
9,722.0	23.20	1.10	9,710.0	-29.8	-27.5	-31.3	11.49	11.29	5.81
9,753.0	27.60	3.40	9,738.0	-16.5	-26.9	-18.0	14.54	14.19	7.42
9,784.0	32.80	2.10	9,764.8	-0.9	-26.2	-2.4	16.91	16.77	-4.19
9,815.0	37.30	0.70	9,790.2	16.9	-25.8	15.4	14.75	14.52	-4.52
9,846.0	40.40	359.50	9,814.3	36.3	-25.8	34.8	10.29	10.00	-3.87
9,878.0	42.20	357.90	9,838.4	57.4	-26.2	55.8	6.52	5.63	-5.00
9,909.0	43.90	358.10	9,861.0	78.6	-27.0	76.9	5.50	5.48	0.65
9,940.0	46.40	359.70	9,882.9	100.5	-27.4	98.8	8.86	8.06	5.16
9,971.0	49.40	0.50	9,903.7	123.5	-27.4	121.8	9.86	9.68	2.58
10,003.0	52.00	1.50	9,923.9	148.3	-26.9	146.5	8.48	8.13	3.13
10,034.0	54.20	2.00	9,942.5	173.1	-26.2	171.3	7.21	7.10	1.61
10,065.0	56.70	3.20	9,960.1	198.6	-25.0	196.8	8.67	8.06	3.87
10,096.0	59.30	4.20	9,976.5	224.8	-23.3	223.1	8.82	8.39	3.23
10,127.0	61.80	4.20	9,991.8	251.7	-21.3	250.1	8.06	8.06	0.00
10,159.0	64.70	2.90	10,006.2	280.2	-19.6	278.7	9.76	9.06	-4.06
10,190.0	65.90	2.40	10,019.1	308.4	-18.3	306.9	4.14	3.87	-1.61
10,221.0	66.50	2.20	10,031.6	336.7	-17.1	335.2	2.02	1.94	-0.65
10,252.0	66.60	2.00	10,044.0	365.1	-16.1	363.6	0.67	0.32	-0.65
10,283.0	68.70	2.00	10,055.8	393.8	-15.1	392.3	6.77	6.77	0.00
10,315.0	72.00	2.60	10,066.5	423.9	-13.9	422.4	10.46	10.31	1.88
10,346.0	75.60	2.90	10,075.2	453.6	-12.4	452.2	11.65	11.61	0.97
10,377.0	77.20	3.10	10,082.5	483.7	-10.9	482.3	5.20	5.16	0.65
10,408.0	79.10	3.20	10,088.8	514.0	-9.2	512.7	6.14	6.13	0.32
10,439.0	80.00	3.30	10,094.5	544.4	-7.5	543.2	2.92	2.90	0.32
10,470.0	81.10	3.80	10,099.5	575.0	-5.6	573.7	3.89	3.55	1.61
10,492.0	82.20	3.70	10,102.7	596.7	-4.1	595.5	5.02	5.00	-0.45
10,523.0	86.70	3.60	10,105.7	627.5	-2.2	626.3	14.52	14.52	-0.32
10,554.0	91.80	4.70	10,106.1	658.4	0.1	657.3	16.83	16.45	3.55
10,617.0	89.70	1.60	10,105.3	721.3	3.5	720.3	5.94	-3.33	-4.92
10,711.0	86.30	358.70	10,108.6	815.2	3.8	814.1	4.75	-3.62	-3.09
10,804.0	88.40	0.00	10,112.9	908.1	2.7	906.8	2.65	2.26	1.40



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-24S-27E Commodore 30 W2PA Fed 1H
Well: Commodore 30 W2PA Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Commodore 30 W2PA Fed 1H
TVD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
MD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,898.0	90.20	1.00	10,114.0	1,002.1	3.5	1,000.6	2.19	1.91	1.06
10,991.0	90.50	359.80	10,113.5	1,095.1	4.2	1,093.5	1.33	0.32	-1.29
11,085.0	91.80	4.50	10,111.6	1,188.9	7.7	1,187.5	5.19	1.38	5.00
11,178.0	87.90	3.80	10,111.8	1,281.7	14.4	1,280.4	4.26	-4.19	-0.75
11,272.0	89.40	6.10	10,114.0	1,375.3	22.6	1,374.4	2.92	1.60	2.45
11,365.0	91.60	8.60	10,113.2	1,467.5	34.4	1,467.1	3.58	2.37	2.69
11,459.0	91.40	5.40	10,110.8	1,560.8	45.9	1,560.9	3.41	-0.21	-3.40
11,552.0	91.30	5.70	10,108.6	1,653.3	54.9	1,653.8	0.34	-0.11	0.32
11,646.0	90.40	6.40	10,107.2	1,746.8	64.8	1,747.6	1.21	-0.96	0.74
11,740.0	89.50	3.80	10,107.3	1,840.4	73.2	1,841.6	2.93	-0.96	-2.77
11,833.0	90.60	4.60	10,107.2	1,933.1	80.0	1,934.6	1.46	1.18	0.86
11,927.0	89.90	5.00	10,106.8	2,026.8	87.8	2,028.5	0.86	-0.74	0.43
12,020.0	90.20	4.60	10,106.7	2,119.5	95.6	2,121.5	0.54	0.32	-0.43
12,114.0	91.30	5.50	10,105.5	2,213.1	103.9	2,215.4	1.51	1.17	0.96
12,207.0	87.10	3.60	10,106.8	2,305.8	111.3	2,308.4	4.96	-4.52	-2.04
12,300.0	89.10	3.40	10,109.9	2,398.5	116.9	2,401.3	2.16	2.15	-0.22
12,394.0	86.50	1.80	10,113.5	2,492.4	121.2	2,495.2	3.25	-2.77	-1.70
12,487.0	90.50	2.40	10,115.9	2,585.3	124.6	2,588.2	4.35	4.30	0.65
12,581.0	91.20	2.80	10,114.5	2,679.1	128.9	2,682.1	0.86	0.74	0.43
12,674.0	90.30	3.90	10,113.3	2,772.0	134.3	2,775.1	1.53	-0.97	1.18
12,768.0	88.50	3.40	10,114.3	2,865.8	140.3	2,869.1	1.99	-1.91	-0.53
12,861.0	86.90	1.70	10,118.0	2,958.6	144.4	2,962.0	2.51	-1.72	-1.83
12,955.0	90.10	1.40	10,120.5	3,052.5	147.0	3,055.9	3.42	3.40	-0.32
13,049.0	89.80	1.70	10,120.5	3,146.5	149.5	3,149.9	0.45	-0.32	0.32
13,142.0	88.70	359.80	10,121.8	3,239.5	150.7	3,242.8	2.36	-1.18	-2.04
13,235.0	90.80	357.80	10,122.2	3,332.4	148.8	3,335.5	3.12	2.26	-2.15
13,329.0	88.40	355.90	10,122.8	3,426.3	143.6	3,428.9	3.26	-2.55	-2.02
13,423.0	87.80	353.70	10,125.9	3,519.8	135.1	3,521.8	2.42	-0.64	-2.34
13,519.0	90.00	354.00	10,127.8	3,615.3	124.8	3,616.5	2.31	2.29	0.31
13,612.0	89.00	353.40	10,128.6	3,707.7	114.6	3,708.2	1.25	-1.08	-0.65
13,706.0	88.40	352.80	10,130.7	3,801.0	103.3	3,800.7	0.90	-0.64	-0.64
13,799.0	89.40	349.60	10,132.5	3,892.9	89.1	3,891.7	3.60	1.08	-3.44
13,825.0	89.40	348.20	10,132.8	3,918.4	84.1	3,916.8	5.38	0.00	-5.38
13,919.0	92.40	355.90	10,131.3	4,011.4	71.1	4,009.0	8.79	3.19	8.19
14,012.0	94.20	2.60	10,125.9	4,104.2	69.9	4,101.5	7.45	1.94	7.20
14,103.0	93.90	3.80	10,119.5	4,194.8	74.9	4,192.3	1.36	-0.33	1.32
14,196.0	92.10	3.40	10,114.6	4,287.5	80.8	4,285.2	1.98	-1.94	-0.43
14,290.0	90.20	3.30	10,112.8	4,381.3	86.3	4,379.1	2.02	-2.02	-0.11
14,383.0	89.70	3.30	10,112.8	4,474.1	91.6	4,472.1	0.54	-0.54	0.00
14,477.0	89.00	1.90	10,113.9	4,568.0	95.9	4,566.1	1.67	-0.74	-1.49
14,570.0	88.60	3.30	10,115.9	4,660.9	100.1	4,659.1	1.57	-0.43	1.51
14,664.0	92.30	5.90	10,115.1	4,754.6	107.6	4,753.0	4.81	3.94	2.77
14,757.0	91.60	6.10	10,112.0	4,847.0	117.4	4,845.9	0.78	-0.75	0.22



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-24S-27E Commodore 30 W2PA Fed 1H
Well: Commodore 30 W2PA Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Commodore 30 W2PA Fed 1H
TVD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
MD Reference: 3418 + 27 @ 3445.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
14,851.0	90.70	6.50	10,110.1	4,940.4	127.7	4,939.7	1.05	-0.96	0.43
14,945.0	88.30	4.80	10,110.9	5,034.0	136.9	5,033.6	3.13	-2.55	-1.81
15,013.0	88.40	4.60	10,112.8	5,101.7	142.5	5,101.6	0.33	0.15	-0.29
15,060.0	88.50	4.60	10,114.1	5,148.5	146.3	5,148.5	0.21	0.21	0.00
15060' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,302.0	9,299.6	-93.7	-30.5	9302' MD Gyro Survey
15,060.0	10,114.1	5,148.5	146.3	15060' MD Projected to Bit



August 11, 2016

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

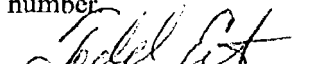
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Commodore 30 W2PA Federal #001H
Willow Lake; Bone Spring, West
Eddy County, New Mexico
API# 30-015-43296

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Robert Finley	Original Hole	9,347ft. to 15,013ft.	07-03-16 to 07-23-16	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEManRD\Mewbourne Oil Company\Commodore 30 W2PA Federal #1H\M161045

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



August 11, 2016

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 18 2017

RECEIVED

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 03, 2016, through July 23, 2016 conduct or supervise the taking of a SEDS Original MWD Survey from a depth of 9,347 feet to a depth of 15,013 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Commodore 30 W2PA Federal #001H well, API # 30-015-43296 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



PHOENIX

TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

Celebrating 20 Years of Focused Solutions

July 11, 2016

Mewbourne Oil
Attention: Regulatory Department
701 S Cecil St
Hobbs, New Mexico 88240

Re: Mewbourne Oil
Commodore 30 W2PA Fed #1H
Eddy County, NM
API #30-015-43296
Job No. 1610304

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1H	0	9,302	07/03/16	07/03/16	Gyro

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Claudia Carreon
Operations Administrator

MAR 18 2017

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 1610304

Well Name: Commodore 30 W2PA Fed #1H

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-43296

THE IN DATA

Measure Depth (ft) 0	Vertical Depth (ft) 0	Inclination (°) 0	Azimuth (°) 0	N-S Coordinates 0	E-W Coordinates 0	Data Source Surface
------------------------------------	-------------------------------------	---------------------------------	-------------------------	---------------------------------	---------------------------------	-------------------------------

Date 2016-07-03	Depth (ft) 0	Inclination (°) 0	Azimuth (°) 0	Date 2016-07-03	Depth (ft) 9302	Inclination (°) 1.35	Azimuth (°) 183.66
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Date 0	Depth (ft) 0	Inclination (°) 0	Azimuth (°) 0	Grid Correction -0.06
------------------	------------------------	---------------------------------	-------------------------	-------------------------------------

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Jaime Stephenson

To the best of my knowledge I certify this survey data to be correct and true

Date:

07-03-14

Print Name: Noe Garza

Signature:



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne
Well: Commodore 30 W2PA Fed #1H
Location: Eddy Co., New Mexico
Rig: Patterson 250

Job Number: 1610304
Grid Corr.: -0.06
Lat: 32.19
Long: -104.22

Date: 07-03-16
Calculation Method: Minimum Curvature
Proposed Azimuth: 26.5 Feet
RKB - MSL in feet: Surface
Tie Info:

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
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Enter Tie-In Survey on Line 10

FIELD COPY, NON-DEFINITIVE

TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.20	47.53	100	100.00	0.12	0.12 N	0.13 E	0.17	47.53	0.20	0.20	47.53
	200.00	0.25	355.21	100	200.00	0.45	0.45 N	0.24 E	0.51	27.84	0.20	0.05	307.68
	300.00	0.41	2.43	100	300.00	1.03	1.03 N	0.24 E	1.05	12.94	0.17	0.16	-352.78
	400.00	0.16	300.47	100	400.00	1.46	1.46 N	0.13 E	1.46	5.14	0.36	-0.25	298.04
	500.00	0.52	209.46	100	499.99	1.13	1.13 N	0.21 W	1.15	349.37	0.55	0.36	-91.01
	600.00	0.24	59.74	100	599.99	0.84	0.84 N	0.25 W	0.88	343.17	0.74	-0.28	-149.72
	700.00	0.51	216.12	100	699.99	0.59	0.59 N	0.34 W	0.68	330.26	0.74	0.27	156.38
	800.00	0.51	175.43	100	799.99	-0.21	0.21 S	0.56 W	0.60	249.12	0.35	0.00	-40.69
	900.00	0.70	221.27	100	899.98	-1.12	1.12 S	0.93 W	1.45	219.78	0.50	0.19	45.84
	1000.00	1.44	226.22	100	999.97	-2.45	2.45 S	2.24 W	3.32	222.49	0.75	0.74	4.95
	1100.00	1.60	235.72	100	1099.93	-4.10	4.10 S	4.30 W	5.94	226.36	0.30	0.16	9.50
	1200.00	1.25	255.01	100	1199.90	-5.17	5.17 S	6.51 W	8.31	231.54	0.59	-0.35	19.29
	1300.00	0.45	129.83	100	1299.89	-5.70	5.70 S	7.26 W	9.23	231.85	1.55	-0.80	-125.18
	1400.00	0.93	89.96	100	1399.89	-5.95	5.95 S	6.15 W	8.56	225.91	0.65	0.48	-39.87
	1500.00	1.89	223.04	100	1499.87	-7.16	7.16 S	6.46 W	9.64	222.07	2.61	0.96	133.08
	1600.00	2.12	104.84	100	1599.84	-8.84	8.84 S	5.80 W	10.57	213.27	3.44	0.23	-118.20
	1700.00	1.13	75.08	100	1699.80	-9.06	9.06 S	3.06 W	9.56	198.65	1.27	-0.99	-29.76
	1800.00	1.20	68.74	100	1799.78	-8.43	8.43 S	1.13 W	8.50	187.64	0.15	0.07	-6.34
	1900.00	1.22	103.88	100	1899.76	-8.30	8.30 S	0.88 E	8.35	173.95	0.73	0.02	35.14
	2000.00	1.30	98.27	100	1999.73	-8.72	8.72 S	3.04 E	9.23	160.80	0.15	0.08	-5.61
	2100.00	1.45	100.99	100	2099.70	-9.12	9.12 S	5.40 E	10.60	149.38	0.16	0.15	2.72
	2200.00	1.24	91.86	100	2199.68	-9.40	9.40 S	7.72 E	12.17	140.59	0.30	-0.21	-9.13
	2300.00	1.32	93.49	100	2299.65	-9.51	9.51 S	9.96 E	13.76	133.68	0.09	0.08	1.63
	2400.00	1.10	76.46	100	2399.63	-9.35	9.35 S	12.04 E	15.24	127.84	0.42	-0.22	-17.03
	2500.00	1.48	82.17	100	2499.60	-8.95	8.95 S	14.25 E	16.83	122.13	0.40	0.38	5.71
	2600.00	0.81	97.49	100	2599.58	-8.87	8.87 S	16.23 E	18.49	118.65	0.73	-0.67	15.32
	2700.00	0.41	169.67	100	2699.58	-9.31	9.31 S	17.00 E	19.38	118.72	0.79	-0.40	72.18



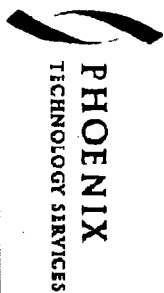
PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne
Well: Commodore 30 WZPA Fed #1H
Location: Eddy Co., New Mexico
Rig: Patterson 250

Job Number: 1610304
Grid Corr.: -0.06
Lat: 32.19
Long: -104.22

Calculation Method: Minimum Curvature
Proposed Azimuth: 26.5 Feet
RKB - MSL in feet: Surface
Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	2800.00	0.18	342.61	100	2799.58	-9.51	9.51 S	17.01 E	19.49	119.21	0.59	-0.23	172.94
	2900.00	0.14	60.98	100	2899.58	-9.30	9.30 S	17.07 E	19.44	118.59	0.20	-0.04	-281.63
	3000.00	0.02	332.16	100	2999.58	-9.23	9.23 S	17.17 E	19.49	118.26	0.14	-0.12	271.18
	3100.00	0.33	180.26	100	3099.58	-9.50	9.50 S	17.16 E	19.62	118.97	0.35	0.31	-151.90
	3200.00	0.34	254.11	100	3199.58	-9.87	9.87 S	16.88 E	19.55	120.32	0.40	0.01	73.85
	3300.00	0.27	319.66	100	3299.57	-9.77	9.77 S	16.44 E	19.12	120.73	0.34	-0.07	65.55
	3400.00	0.38	297.55	100	3399.57	-9.44	9.44 S	15.99 E	18.57	120.55	0.16	0.11	-22.11
	3500.00	0.37	218.10	100	3499.57	-9.54	9.54 S	15.50 E	18.20	121.62	0.48	-0.01	-79.45
	3600.00	0.81	248.87	100	3599.57	-10.05	10.05 S	14.64 E	17.76	124.47	0.53	0.44	30.77
	3700.00	0.70	232.14	100	3699.56	-10.68	10.68 S	13.50 E	17.21	128.35	0.25	-0.11	-16.73
	3800.00	0.58	218.20	100	3799.55	-11.45	11.45 S	12.70 E	17.10	132.04	0.20	-0.12	-13.94
	3900.00	0.62	197.88	100	3899.55	-12.36	12.36 S	12.22 E	17.39	135.33	0.22	0.04	-20.32
	4000.00	0.84	186.52	100	3999.54	-13.61	13.61 S	11.97 E	18.13	138.65	0.26	0.22	-11.36
	4100.00	0.54	219.45	100	4099.53	-14.70	14.70 S	11.59 E	18.72	141.74	0.49	-0.30	32.93
	4200.00	0.66	254.44	100	4199.52	-15.22	15.22 S	10.74 E	18.62	144.79	0.38	0.12	34.99
	4300.00	0.38	202.00	100	4299.52	-15.68	15.68 S	10.06 E	18.63	147.32	0.52	-0.28	-52.44
	4400.00	0.42	236.92	100	4399.52	-16.19	16.19 S	9.63 E	18.83	149.26	0.24	0.04	34.92
	4500.00	0.11	28.17	100	4499.52	-16.30	16.30 S	9.36 E	18.80	150.13	0.52	-0.31	-208.75
	4600.00	0.49	188.82	100	4599.52	-16.64	16.64 S	9.34 E	19.08	150.68	0.59	0.38	160.65
	4700.00	0.48	162.99	100	4699.51	-17.46	17.46 S	9.40 E	19.83	151.70	0.22	-0.01	-25.83
	4800.00	0.63	112.76	100	4799.51	-18.08	18.08 S	10.03 E	20.67	150.97	0.49	0.15	-50.23
	4900.00	1.23	165.76	100	4899.50	-19.33	19.33 S	10.80 E	22.14	150.80	0.99	0.60	53.00
	5000.00	0.88	152.29	100	4999.48	-21.05	21.05 S	11.42 E	23.95	151.51	0.43	-0.35	-13.47
	5100.00	0.73	175.01	100	5099.47	-22.36	22.36 S	11.84 E	25.30	152.11	0.35	-0.15	22.72
	5200.00	0.51	176.60	100	5199.46	-23.44	23.44 S	11.92 E	26.30	153.05	0.22	-0.22	1.59
	5300.00	0.72	187.29	100	5299.46	-24.51	24.51 S	11.86 E	27.23	154.17	0.24	0.21	10.69
	5400.00	0.82	229.00	100	5399.45	-25.60	25.60 S	11.24 E	27.96	156.29	0.56	0.10	41.71
	5500.00	0.45	128.93	100	5499.45	-26.32	26.32 S	11.01 E	28.53	157.30	1.00	-0.37	-100.07
	5600.00	0.83	175.89	100	5599.44	-27.29	27.29 S	11.37 E	29.56	157.39	0.62	0.38	46.96
	5700.00	0.92	173.89	100	5699.43	-28.81	28.81 S	11.50 E	31.02	158.23	0.10	0.09	-2.00



PHOENIX

TECHNOLOGY SERVICES

Company: Mewbourne
Well: Commodore 30 WZPA Fed #1H
Location: Eddy Co., New Mexico
Rig: Patterson 250

Job Number: 1610304
Grid Corr.: -0.06
Lat: 32.19
Long: -104.22

Calculation Method: Minimum Curvature
Proposed Azimuth: 26.5 Feet
RKB - MSL in feet: Surface
Tie Into:

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S	E/W	Distance (ft)	Angle (deg)			
	5800.00	0.80	171.64	100	5799.42	-30.30	30.30 S	11.69 E	32.48	158.90	0.12	-0.12	-2.25
	5900.00	1.40	158.30	100	5899.40	-32.12	32.12 S	12.24 E	34.38	159.14	0.65	0.60	-13.34
	6000.00	1.06	153.21	100	5999.38	-34.09	34.09 S	13.11 E	36.52	158.96	0.36	-0.34	-5.09
	6100.00	1.33	161.94	100	6099.35	-36.01	36.01 S	13.89 E	38.60	158.91	0.32	0.27	8.73
	6200.00	1.95	204.89	100	6199.32	-38.66	38.66 S	13.53 E	40.96	160.71	1.33	0.62	42.95
	6300.00	2.13	204.64	100	6299.25	-41.89	41.89 S	12.04 E	43.59	163.96	0.18	0.18	-0.25
	6400.00	3.65	199.22	100	6399.12	-46.59	46.59 S	10.22 E	47.70	167.63	1.54	1.52	-5.42
	6500.00	3.59	194.55	100	6498.92	-52.62	52.62 S	8.39 E	53.29	170.95	0.30	-0.06	-4.67
	6600.00	2.45	207.07	100	6598.78	-57.56	57.56 S	6.63 E	57.94	173.43	1.31	-1.14	12.52
	6700.00	3.16	232.13	100	6698.67	-61.15	61.15 S	3.48 E	61.25	176.75	1.40	0.71	25.06
	6800.00	3.80	230.86	100	6798.48	-64.94	64.94 S	1.27 W	64.95	181.12	0.64	0.64	-1.27
	6900.00	3.16	231.90	100	6898.30	-68.73	68.73 S	6.01 W	68.99	185.00	0.64	-0.64	1.04
	7000.00	2.77	242.55	100	6998.16	-71.54	71.54 S	10.32 W	72.29	188.21	0.67	-0.39	10.65
	7100.00	2.35	242.92	100	7098.06	-73.59	73.59 S	14.29 W	74.97	190.99	0.42	-0.42	0.37
	7200.00	2.34	245.67	100	7197.98	-75.37	75.37 S	17.98 W	77.48	193.42	0.11	-0.01	2.75
	7300.00	1.38	267.63	100	7297.93	-76.26	76.26 S	21.04 W	79.11	195.42	1.18	-0.96	21.96
	7400.00	1.00	273.61	100	7397.91	-76.25	76.25 S	23.11 W	79.68	196.86	0.40	-0.38	5.98
	7500.00	1.65	250.66	100	7497.88	-76.67	76.67 S	25.34 W	80.75	198.29	0.83	0.65	-22.95
	7600.00	1.45	258.71	100	7597.84	-77.40	77.40 S	27.94 W	82.29	199.85	0.30	-0.20	8.05
	7700.00	0.56	3.72	100	7697.83	-77.16	77.16 S	29.15 W	82.48	200.70	1.68	-0.89	-254.99
	7800.00	1.15	7.85	100	7797.82	-75.68	75.68 S	28.98 W	81.04	200.96	0.59	0.59	4.13
	7900.00	0.22	10.13	100	7897.81	-74.49	74.49 S	28.81 W	79.87	201.14	0.93	-0.93	2.28
	8000.00	1.06	166.97	100	7997.81	-75.21	75.21 S	28.57 W	80.45	200.80	1.27	0.84	156.84
	8100.00	1.91	199.23	100	8097.77	-77.68	77.68 S	28.91 W	82.89	200.41	1.16	0.85	32.26
	8200.00	1.84	188.41	100	8197.72	-80.84	80.84 S	29.69 W	86.12	200.17	0.36	-0.07	-10.82
	8300.00	0.42	225.84	100	8297.70	-82.69	82.69 S	30.19 W	88.02	200.06	1.53	-1.42	37.43
	8400.00	0.56	279.19	100	8397.70	-82.86	82.86 S	30.94 W	88.45	200.47	0.46	0.14	53.35
	8500.00	0.44	94.38	100	8497.69	-82.81	82.81 S	31.04 W	88.44	200.54	1.00	-0.12	-184.81
	8600.00	1.04	123.12	100	8597.69	-83.34	83.34 S	29.89 W	88.54	199.73	0.69	0.60	28.74
	8700.00	0.91	135.03	100	8697.67	-84.40	84.40 S	28.57 W	89.10	198.70	0.24	-0.13	11.91

NM OIL CONSERVATION
ARTESIA DISTRICT
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PHOENIX

TECHNOLOGY SERVICES

Company: Mewbourne
Well: Commodore 30 WZPA Fed #1H
Location: Eddy Co, New Mexico
Rig: Patterson 250

Job Number: 1610304
Grid Corr.: -0.06
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Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	8800.00	0.70	196.89	100	8797.66	-85.54	85.54 S	28.19 W	90.07	198.24	0.85	-0.21	61.86
	8900.00	0.79	199.42	100	8897.65	-86.78	86.78 S	28.59 W	91.37	198.24	0.10	0.09	2.53
	9000.00	0.69	218.50	100	8997.65	-87.90	87.90 S	29.20 W	92.62	198.38	0.26	-0.10	19.08
	9100.00	1.10	197.78	100	9097.63	-89.28	89.28 S	29.87 W	94.15	198.50	0.52	0.41	-20.72
	9200.00	1.33	186.88	100	9197.61	-91.35	91.35 S	30.30 W	96.24	198.35	0.33	0.23	-10.90
	9302.00	1.35	183.66	102	9299.58	-93.73	93.73 S	30.52 W	98.57	198.04	0.08	0.02	-3.16