



Anadarko

Weld Co., Co (NAD 83)

Scott Pad

Scott 27N-32HZ

Wellbore #1

Design: OH

Standard Survey Report

23 April, 2014

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 27N-32HZ
Project:	Weld Co., Co (NAD 83)	TVD Reference:	Well @ 4890.0usft (Xtreme 23)
Site:	Scott Pad	MD Reference:	Well @ 4890.0usft (Xtreme 23)
Well:	Scott 27N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Weld Co., Co (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Scott Pad				
Site Position:		Northing:	1,305,107.63 usft	Latitude:	40° 10' 9.914 N
From:	Lat/Long	Easting:	3,164,308.15 usft	Longitude:	104° 54' 43.351 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	Scott 27N-32HZ					
Well Position	+N-S	0.0 usft	Northing:	1,304,760.99 usft	Latitude:	40° 10' 6.409 N
	+E-W	0.0 usft	Easting:	3,165,512.70 usft	Longitude:	104° 54' 27.864 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	4,874.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/3/2014	8.54	66.74	52,699

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.33	

Survey Program	Date	4/23/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	954.0	Survey #1 (Wellbore #1)	CT_GYRO_MS	Continuous Gyro Multishot	
1,083.0	14,554.0	Survey #2 (Wellbore #1)	MWD	MWD - Standard	

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	0.33	194.32	100.0	-0.3	-0.1	-0.3	0.33	0.33	0.00	
200.0	0.19	235.29	200.0	-0.7	-0.3	-0.6	0.22	-0.14	40.97	
300.0	0.32	169.24	300.0	-1.0	-0.4	-1.0	0.30	0.13	-66.05	
400.0	0.20	204.99	400.0	-1.5	-0.4	-1.4	0.20	-0.12	35.75	
500.0	0.33	203.41	500.0	-1.9	-0.6	-1.8	0.13	0.13	-1.58	
600.0	0.38	252.23	600.0	-2.2	-1.0	-2.2	0.30	0.05	48.82	
700.0	0.33	261.44	700.0	-2.4	-1.6	-2.3	0.08	-0.05	9.21	
800.0	0.35	285.42	800.0	-2.3	-2.2	-2.2	0.14	0.02	23.98	
900.0	0.50	294.01	900.0	-2.1	-2.9	-2.0	0.16	0.15	8.59	

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Well:	Scott 27N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
954.0	0.48	318.51	954.0	-1.8	-3.2	-1.7	0.39	-0.04	45.37
1,083.0	0.50	246.70	1,083.0	-1.6	-4.1	-1.4	0.45	0.02	-55.67
1,176.0	2.30	233.00	1,176.0	-2.9	-6.0	-2.6	1.95	1.94	-14.73
1,269.0	3.90	249.90	1,268.8	-5.1	-10.4	-4.6	1.96	1.72	18.17
1,362.0	5.30	241.90	1,361.5	-8.2	-17.2	-7.4	1.65	1.51	-8.60
1,454.0	7.00	232.60	1,453.0	-13.7	-25.4	-12.5	2.14	1.85	-10.11
1,546.0	9.00	214.00	1,544.1	-23.0	-33.9	-21.4	3.53	2.17	-20.22
1,636.0	10.00	202.60	1,632.9	-36.1	-40.8	-34.1	2.36	1.11	-12.67
1,728.0	9.00	201.70	1,723.6	-50.1	-46.6	-47.9	1.10	-1.09	-0.98
1,824.0	10.40	200.80	1,818.2	-65.2	-52.4	-62.7	1.47	1.46	-0.94
1,916.0	9.50	197.10	1,908.8	-80.2	-57.6	-77.5	1.20	-0.98	-4.02
2,008.0	9.70	202.00	1,999.6	-94.7	-62.7	-91.7	0.91	0.22	5.33
2,098.0	8.80	201.50	2,088.4	-108.1	-68.1	-104.8	1.00	-1.00	-0.56
2,190.0	9.10	208.60	2,179.3	-121.0	-74.1	-117.5	1.24	0.33	7.72
2,283.0	10.00	201.90	2,271.0	-135.0	-80.7	-131.1	1.54	0.97	-7.20
2,376.0	8.40	199.60	2,362.8	-148.9	-86.0	-144.7	1.76	-1.72	-2.47
2,468.0	9.10	204.70	2,453.7	-161.8	-91.3	-157.4	1.14	0.76	5.54
2,560.0	12.10	204.70	2,544.1	-177.2	-98.3	-172.4	3.26	3.26	0.00
2,653.0	13.00	205.00	2,634.9	-195.5	-106.8	-190.4	0.97	0.97	0.32
2,745.0	12.80	205.90	2,724.6	-214.1	-115.7	-208.5	0.31	-0.22	0.98
2,838.0	12.30	206.80	2,815.4	-232.2	-124.6	-226.1	0.58	-0.54	0.97
2,929.0	11.10	204.00	2,904.5	-248.9	-132.6	-242.4	1.46	-1.32	-3.08
3,020.0	10.60	203.10	2,993.9	-264.6	-139.4	-257.8	0.58	-0.55	-0.99
3,113.0	9.50	207.70	3,085.4	-279.2	-146.3	-272.1	1.46	-1.18	4.95
3,199.0	7.40	203.50	3,170.5	-290.6	-151.8	-283.2	2.54	-2.44	-4.88
3,284.0	6.00	195.90	3,254.9	-299.9	-155.2	-292.3	1.95	-1.65	-8.94
3,369.0	4.80	196.20	3,339.5	-307.6	-157.4	-299.9	1.41	-1.41	0.35
3,455.0	3.50	196.20	3,425.3	-313.5	-159.2	-305.8	1.51	-1.51	0.00
3,540.0	1.80	192.70	3,510.2	-317.3	-160.2	-309.5	2.01	-2.00	-4.12
3,625.0	1.10	57.40	3,595.2	-318.2	-159.8	-310.4	3.17	-0.82	-159.18
3,711.0	1.10	43.10	3,681.2	-317.1	-158.5	-309.4	0.32	0.00	-16.63
3,796.0	0.50	39.80	3,766.2	-316.3	-157.7	-308.6	0.71	-0.71	-3.88
3,881.0	0.70	313.00	3,851.2	-315.6	-157.9	-307.9	0.98	0.24	-102.12
3,966.0	0.90	309.80	3,936.2	-314.8	-158.8	-307.1	0.24	0.24	-3.76
4,052.0	0.90	337.20	4,022.1	-313.8	-159.6	-306.0	0.50	0.00	31.86
4,137.0	1.10	20.30	4,107.1	-312.4	-159.5	-304.6	0.89	0.24	50.71
4,225.0	1.60	27.10	4,195.1	-310.5	-158.7	-302.8	0.60	0.57	7.73
4,310.0	1.90	5.00	4,280.1	-308.1	-158.0	-300.4	0.86	0.35	-26.00
4,395.0	1.90	1.30	4,365.0	-305.3	-157.9	-297.6	0.14	0.00	-4.35
4,481.0	0.20	276.10	4,451.0	-303.8	-158.0	-296.1	2.20	-1.98	-99.07
4,566.0	0.70	225.20	4,536.0	-304.2	-158.5	-296.4	0.70	0.59	-59.88
4,651.0	0.90	247.60	4,621.0	-304.8	-159.5	-297.0	0.43	0.24	26.35
4,736.0	0.90	231.60	4,706.0	-305.4	-160.6	-297.6	0.29	0.00	-18.82

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Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,822.0	0.90	245.30	4,792.0	-306.2	-161.8	-298.3	0.25	0.00	15.93
4,907.0	1.10	129.30	4,877.0	-306.9	-161.7	-299.1	2.00	0.24	-136.47
4,992.0	1.20	140.20	4,962.0	-308.1	-160.5	-300.3	0.28	0.12	12.82
5,078.0	0.70	144.90	5,047.9	-309.3	-159.7	-301.5	0.59	-0.58	5.47
5,163.0	0.50	185.70	5,132.9	-310.1	-159.4	-302.3	0.54	-0.24	48.00
5,248.0	0.50	217.30	5,217.9	-310.7	-159.7	-303.0	0.32	0.00	37.18
5,334.0	0.50	254.40	5,303.9	-311.1	-160.3	-303.3	0.37	0.00	43.14
5,419.0	0.50	269.50	5,388.9	-311.2	-161.0	-303.4	0.15	0.00	17.76
5,504.0	0.50	275.90	5,473.9	-311.2	-161.7	-303.3	0.07	0.00	7.53
5,589.0	0.90	288.70	5,558.9	-310.9	-162.7	-303.0	0.50	0.47	15.06
5,674.0	1.20	67.60	5,643.9	-310.4	-162.5	-302.5	2.32	0.35	163.41
5,760.0	1.40	53.30	5,729.9	-309.4	-160.9	-301.6	0.44	0.23	-16.63
5,845.0	1.40	16.60	5,814.9	-307.8	-159.7	-300.0	1.04	0.00	-43.18
5,931.0	0.50	309.40	5,900.9	-306.6	-159.7	-298.8	1.50	-1.05	-78.14
6,016.0	0.50	332.50	5,985.9	-306.0	-160.2	-298.2	0.24	0.00	27.18
6,101.0	1.10	303.30	6,070.8	-305.2	-161.0	-297.4	0.83	0.71	-34.35
6,186.0	0.70	179.50	6,155.8	-305.3	-161.7	-297.4	1.88	-0.47	-145.65
6,272.0	0.70	89.90	6,241.8	-305.8	-161.2	-298.0	1.15	0.00	-104.19
6,357.0	0.20	346.70	6,326.8	-305.7	-160.7	-297.8	0.91	-0.59	-121.41
6,443.0	0.70	308.60	6,412.8	-305.2	-161.1	-297.4	0.65	0.58	-44.30
6,528.0	0.50	291.90	6,497.8	-304.7	-161.9	-296.9	0.31	-0.24	-19.65
6,614.0	1.40	313.30	6,583.8	-303.9	-163.0	-295.9	1.11	1.05	24.88
6,656.0	2.50	1.10	6,625.8	-302.6	-163.4	-294.7	4.46	2.62	113.81
6,674.7	3.72	359.92	6,644.5	-301.6	-163.3	-293.6	6.52	6.51	-6.29
KOP Pln 3 Scott 27N-32HZ									
6,699.0	5.30	359.20	6,668.7	-299.7	-163.4	-291.7	6.52	6.51	-2.97
6,741.0	6.90	6.60	6,710.4	-295.2	-163.1	-287.3	4.24	3.81	17.62
6,784.0	8.80	6.10	6,753.0	-289.4	-162.5	-281.5	4.42	4.42	-1.16
6,827.0	10.40	0.10	6,795.4	-282.2	-162.1	-274.4	4.38	3.72	-13.95
6,869.0	11.30	1.60	6,836.7	-274.3	-162.0	-266.5	2.25	2.14	3.57
6,912.0	15.90	5.30	6,878.5	-264.3	-161.3	-256.5	10.88	10.70	8.60
6,955.0	20.50	8.70	6,919.3	-250.9	-159.6	-243.2	10.97	10.70	7.91
6,997.0	26.60	11.40	6,957.8	-234.4	-156.7	-226.9	14.75	14.52	6.43
7,040.0	31.20	11.90	6,995.4	-214.1	-152.5	-206.8	10.71	10.70	1.16
7,083.0	37.10	11.00	7,031.0	-190.4	-147.7	-183.4	13.77	13.72	-2.09
7,125.0	42.70	9.30	7,063.2	-163.9	-143.0	-157.1	13.58	13.33	-4.05
7,168.0	49.30	9.60	7,093.1	-133.4	-137.9	-126.9	15.36	15.35	0.70
7,210.0	55.40	7.50	7,118.7	-100.6	-133.0	-94.3	15.05	14.52	-5.00
7,253.0	60.10	5.80	7,141.6	-64.5	-128.8	-58.4	11.43	10.93	-3.95
7,296.0	63.70	4.00	7,161.9	-26.7	-125.5	-20.8	9.15	8.37	-4.19
7,338.0	67.30	3.10	7,179.3	11.5	-123.2	17.2	8.79	8.57	-2.14
7,381.0	71.80	1.80	7,194.3	51.7	-121.5	57.3	10.84	10.47	-3.02
7,423.0	76.80	359.90	7,205.7	92.1	-120.9	97.7	12.68	11.90	-4.52

IDS Survey Report

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Project:	Weld Co., Co (NAD 83)	TVD Reference:	Well @ 4890.0usft (Xtreme 23)
Site:	Scott Pad	MD Reference:	Well @ 4890.0usft (Xtreme 23)
Well:	Scott 27N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
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7,466.0	82.60	358.80	7,213.4	134.4	-121.4	139.9	13.72	13.49	-2.56
7,494.0	84.60	358.40	7,216.5	162.2	-122.0	167.7	7.28	7.14	-1.43
7,541.0	87.79	358.22	7,219.6	209.1	-123.4	214.6	6.81	6.80	-0.39
Actual 7" @ 7541' MD / 2237' FNL & 1055' FEL Sec 5 - Actual 7"									
7,597.0	91.60	358.00	7,219.9	265.1	-125.3	270.6	6.81	6.80	-0.39
7,601.0	91.63	357.97	7,219.8	269.0	-125.4	274.6	1.07	0.81	-0.70
LP Pln3 Scott 27N-32HZ									
7,683.0	92.30	357.40	7,217.0	350.9	-128.7	356.5	1.07	0.81	-0.70
7,768.0	92.90	356.50	7,213.1	435.7	-133.2	441.5	1.27	0.71	-1.06
7,853.0	92.60	357.30	7,209.1	520.5	-137.8	526.4	1.00	-0.35	0.94
7,946.0	91.50	358.00	7,205.7	613.4	-141.6	619.3	1.40	-1.18	0.75
8,038.0	88.40	359.40	7,205.8	705.3	-143.7	711.3	3.70	-3.37	1.52
8,131.0	86.90	358.70	7,209.6	798.2	-145.3	804.1	1.78	-1.61	-0.75
8,223.0	86.90	358.10	7,214.6	890.1	-147.8	896.0	0.65	0.00	-0.65
8,316.0	88.50	357.40	7,218.3	982.9	-151.5	988.9	1.88	1.72	-0.75
8,408.0	90.50	357.10	7,219.1	1,074.8	-155.9	1,080.9	2.20	2.17	-0.33
8,501.0	92.20	356.30	7,216.9	1,167.6	-161.2	1,173.9	2.02	1.83	-0.86
8,594.0	91.30	356.70	7,214.1	1,260.4	-166.9	1,266.8	1.06	-0.97	0.43
8,686.0	90.50	357.80	7,212.7	1,352.3	-171.3	1,358.8	1.48	-0.87	1.20
8,778.0	90.70	358.80	7,211.7	1,444.2	-174.1	1,450.8	1.11	0.22	1.09
8,870.0	90.00	359.00	7,211.1	1,536.2	-175.8	1,542.7	0.79	-0.76	0.22
8,962.0	90.90	358.20	7,210.4	1,628.2	-178.1	1,634.7	1.31	0.98	-0.87
9,053.0	89.90	358.10	7,209.8	1,719.1	-181.0	1,725.7	1.10	-1.10	-0.11
9,146.0	90.70	357.20	7,209.3	1,812.0	-184.8	1,818.7	1.29	0.86	-0.97
9,237.0	91.20	358.20	7,207.8	1,903.0	-188.5	1,909.7	1.23	0.55	1.10
9,329.0	90.50	359.10	7,206.4	1,994.9	-190.6	2,001.6	1.24	-0.76	0.98
9,422.0	90.00	359.50	7,206.0	2,087.9	-191.8	2,094.6	0.69	-0.54	0.43
9,514.0	90.10	359.60	7,205.9	2,179.9	-192.5	2,186.5	0.15	0.11	0.11
9,599.0	92.80	359.50	7,203.8	2,264.9	-193.2	2,271.4	3.18	3.18	-0.12
9,684.0	91.90	0.00	7,200.3	2,349.8	-193.5	2,356.3	1.21	-1.06	0.59
9,770.0	92.20	0.10	7,197.2	2,435.7	-193.5	2,442.1	0.37	0.35	0.12
9,855.0	92.70	0.10	7,193.6	2,520.7	-193.3	2,526.9	0.59	0.59	0.00
9,940.0	89.70	0.40	7,191.8	2,605.6	-192.9	2,611.8	3.55	-3.53	0.35
10,026.0	87.10	0.40	7,194.2	2,691.6	-192.3	2,697.6	3.02	-3.02	0.00
10,111.0	88.50	359.50	7,197.5	2,776.5	-192.4	2,782.5	1.96	1.65	-1.06
10,197.0	89.30	358.60	7,199.1	2,862.5	-193.8	2,868.4	1.40	0.93	-1.05
10,282.0	89.80	358.10	7,199.8	2,947.5	-196.3	2,953.4	0.83	0.59	-0.59
10,367.0	90.00	358.80	7,199.9	3,032.4	-198.6	3,038.4	0.86	0.24	0.82
10,452.0	90.90	358.60	7,199.3	3,117.4	-200.5	3,123.4	1.08	1.06	-0.24
10,538.0	91.10	358.80	7,197.8	3,203.4	-202.5	3,209.3	0.33	0.23	0.23
10,623.0	90.90	358.90	7,196.3	3,288.3	-204.2	3,294.3	0.26	-0.24	0.12
10,709.0	90.90	358.80	7,194.9	3,374.3	-205.9	3,380.2	0.12	0.00	-0.12
10,794.0	88.80	0.50	7,195.2	3,459.3	-206.4	3,465.2	3.18	-2.47	2.00
10,879.0	87.30	359.50	7,198.0	3,544.2	-206.4	3,550.0	2.12	-1.76	-1.18

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 27N-32HZ
Project:	Weld Co., Co (NAD 83)	TVD Reference:	Well @ 4890.0usft (Xtreme 23)
Site:	Scott Pad	MD Reference:	Well @ 4890.0usft (Xtreme 23)
Well:	Scott 27N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)	
10,964.0	87.10	358.80	7,202.2	3,629.1	-207.7	3,634.9	0.86	-0.24	-0.82	
11,049.0	88.30	358.80	7,205.6	3,714.0	-209.5	3,719.8	1.41	1.41	0.00	
11,135.0	90.00	358.90	7,206.9	3,800.0	-211.2	3,805.7	1.98	1.98	0.12	
11,220.0	88.60	358.40	7,207.9	3,885.0	-213.2	3,890.7	1.75	-1.65	-0.59	
11,305.0	89.60	359.10	7,209.3	3,969.9	-215.0	3,975.7	1.44	1.18	0.82	
11,390.0	90.40	359.80	7,209.3	4,054.9	-215.9	4,060.6	1.25	0.94	0.82	
11,476.0	90.70	0.50	7,208.4	4,140.9	-215.6	4,146.5	0.89	0.35	0.81	
11,561.0	91.10	359.70	7,207.1	4,225.9	-215.5	4,231.4	1.05	0.47	-0.94	
11,646.0	90.50	358.60	7,205.9	4,310.9	-216.7	4,316.3	1.47	-0.71	-1.29	
11,731.0	90.60	359.10	7,205.1	4,395.9	-218.4	4,401.3	0.60	0.12	0.59	
11,817.0	91.10	359.70	7,203.8	4,481.9	-219.3	4,487.2	0.91	0.58	0.70	
11,902.0	91.90	359.50	7,201.6	4,566.8	-219.9	4,572.1	0.97	0.94	-0.24	
11,987.0	92.20	359.30	7,198.6	4,651.8	-220.8	4,657.0	0.42	0.35	-0.24	
12,073.0	89.40	0.40	7,197.4	4,737.8	-221.1	4,742.9	3.50	-3.26	1.28	
12,158.0	88.40	0.70	7,199.0	4,822.7	-220.2	4,827.8	1.23	-1.18	0.35	
12,243.0	88.40	0.00	7,201.4	4,907.7	-219.7	4,912.6	0.82	0.00	-0.82	
12,329.0	88.50	0.20	7,203.7	4,993.7	-219.6	4,998.5	0.26	0.12	0.23	
12,414.0	89.50	1.40	7,205.2	5,078.7	-218.4	5,083.3	1.84	1.18	1.41	
12,499.0	90.00	0.70	7,205.5	5,163.6	-216.8	5,168.1	1.01	0.59	-0.82	
12,584.0	91.10	0.10	7,204.7	5,248.6	-216.2	5,253.0	1.47	1.29	-0.71	
12,669.0	91.90	359.50	7,202.5	5,333.6	-216.5	5,337.9	1.18	0.94	-0.71	
12,755.0	90.60	359.00	7,200.6	5,419.6	-217.7	5,423.8	1.62	-1.51	-0.58	
12,840.0	90.30	359.00	7,200.0	5,504.6	-219.1	5,508.8	0.35	-0.35	0.00	
12,925.0	90.80	359.30	7,199.1	5,589.5	-220.4	5,593.7	0.69	0.59	0.35	
13,010.0	90.80	357.80	7,197.9	5,674.5	-222.6	5,678.7	1.76	0.00	-1.76	
13,095.0	90.40	357.40	7,197.1	5,759.4	-226.1	5,763.7	0.67	-0.47	-0.47	
13,183.0	90.10	357.80	7,196.7	5,847.3	-229.8	5,851.7	0.57	-0.34	0.45	
13,268.0	90.00	358.30	7,196.6	5,932.3	-232.7	5,936.7	0.60	-0.12	0.59	
13,354.0	89.50	359.50	7,197.0	6,018.3	-234.3	6,022.7	1.51	-0.58	1.40	
13,439.0	89.40	359.80	7,197.8	6,103.3	-234.9	6,107.6	0.37	-0.12	0.35	
13,524.0	89.50	359.20	7,198.6	6,188.3	-235.6	6,192.5	0.72	0.12	-0.71	
13,609.0	89.50	358.10	7,199.4	6,273.2	-237.6	6,277.5	1.29	0.00	-1.29	
13,695.0	89.50	357.90	7,200.1	6,359.2	-240.6	6,363.5	0.23	0.00	-0.23	
13,782.0	90.50	0.10	7,200.1	6,446.2	-242.1	6,450.4	2.78	1.15	2.53	
13,865.0	90.00	358.90	7,199.7	6,529.2	-242.8	6,533.4	1.57	-0.60	-1.45	
13,951.0	90.20	358.80	7,199.6	6,615.1	-244.6	6,619.3	0.26	0.23	-0.12	
14,036.0	90.30	358.60	7,199.2	6,700.1	-246.5	6,704.3	0.26	0.12	-0.24	
14,121.0	89.90	357.80	7,199.1	6,785.1	-249.2	6,789.3	1.05	-0.47	-0.94	
14,207.0	90.00	357.40	7,199.1	6,871.0	-252.8	6,875.3	0.48	0.12	-0.47	
14,292.0	89.30	356.30	7,199.7	6,955.9	-257.4	6,960.3	1.53	-0.82	-1.29	
14,377.0	89.10	355.30	7,200.9	7,040.6	-263.7	7,045.3	1.20	-0.24	-1.18	
14,462.0	90.00	355.00	7,201.5	7,125.3	-270.9	7,130.2	1.12	1.06	-0.35	
14,492.0	90.10	354.40	7,201.5	7,155.2	-273.6	7,160.2	2.03	0.33	-2.00	
Last MWD										

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 27N-32HZ
Project:	Weld Co., Co (NAD 83)	TVD Reference:	Well @ 4890.0usft (Xtreme 23)
Site:	Scott Pad	MD Reference:	Well @ 4890.0usft (Xtreme 23)
Well:	Scott 27N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
14,554.0	90.10	354.40	7,201.4	7,216.9	-279.7	7,222.1	0.00	0.00	0.00
PTD @ 14554' MD / 7201' TVD / 521' FNL & 1167' FEL Sec 32 - PBHL Pln3 Scott 27N-32HZ									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
7,541.0	7,219.6	Actual 7"		7	8-3/4

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,541.0	7,219.6	209.1	-123.4	Actual 7" @ 7541' MD / 2237' FNL & 1055' FEL Sec 5	
14,492.0	7,201.5	7,155.2	-273.6	Last MWD	
14,554.0	7,201.4	7,216.9	-279.7	PTD @ 14554' MD / 7201' TVD / 521' FNL & 1167' FEL Sec 32	

Checked By: _____	Approved By: _____	Date: _____
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Job Number: CO14182AN
Company: Anadarko
Lease/Well: Scott 27N-32HZ
Location:
Rig Name: Xtreme 23
RKB: 16
G.L. or M.S.L.: MSL

State/Country: CO
Declination: 8.16
Grid: .38
File name: C:\WINSERVE\C14182N.SVY
Date/Time: 30-Apr-14 / 01:15
Curve Name: SCOTT 27N-32HZ

Integrity Directional Services

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 356.63
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>Course Length FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
Tied Into Gyro										
954.00	.48	318.51	953.99	-1.82	-3.24	-1.63		3.72	240.68	.00
First MWD Survey										
1083.00	.50	246.70	1082.99	-1.64	-4.11	-1.39	129.00	4.43	248.30	.45
1176.00	2.30	233.00	1175.95	-2.92	-5.98	-2.57	93.00	6.65	243.95	1.95
1269.00	3.90	249.90	1268.82	-5.13	-10.44	-4.51	93.00	11.63	243.82	1.96
1362.00	5.30	241.90	1361.52	-8.24	-17.20	-7.22	93.00	19.07	244.40	1.65
1454.00	7.00	232.60	1452.99	-13.65	-25.40	-12.13	92.00	28.84	241.75	2.14
1546.00	9.00	214.00	1544.10	-23.02	-33.88	-20.99	92.00	40.96	235.80	3.53
1636.00	10.00	202.60	1632.87	-36.07	-40.82	-33.61	90.00	54.48	228.53	2.36
1728.00	9.00	201.70	1723.61	-50.13	-46.55	-47.31	92.00	68.41	222.88	1.10
1824.00	10.40	200.80	1818.24	-65.21	-52.40	-62.02	96.00	83.66	218.79	1.47
1916.00	9.50	197.10	1908.85	-80.23	-57.59	-76.71	92.00	98.76	215.67	1.20
2008.00	9.70	202.00	1999.57	-94.67	-62.72	-90.82	92.00	113.57	213.52	.91
2098.00	8.80	201.50	2088.39	-108.11	-68.09	-103.92	90.00	127.76	212.20	1.00
2190.00	9.10	208.60	2179.28	-121.05	-74.15	-116.48	92.00	141.95	211.49	1.24
2283.00	10.00	201.90	2270.99	-135.00	-80.68	-130.02	93.00	157.27	210.86	1.54
2376.00	8.40	199.60	2362.79	-148.89	-85.97	-143.58	93.00	171.93	210.00	1.76
2468.00	9.10	204.70	2453.72	-161.83	-91.27	-156.18	92.00	185.79	209.42	1.14
2560.00	12.10	204.70	2544.14	-177.20	-98.34	-171.11	92.00	202.66	209.03	3.26
2653.00	13.00	205.00	2634.92	-195.54	-106.83	-188.92	93.00	222.82	208.65	.97
2745.00	12.80	205.90	2724.60	-214.08	-115.66	-206.91	92.00	243.33	208.38	.31
2838.00	12.30	206.80	2815.37	-232.19	-124.62	-224.47	93.00	263.52	208.22	.58

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Course Length FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
2929.00	11.10	204.00	2904.48	-248.85	-132.55	-240.63	91.00	281.95	208.04	1.46
3020.00	10.60	203.10	2993.85	-264.55	-139.40	-255.90	91.00	299.03	207.79	.58
3113.00	9.50	207.70	3085.43	-279.21	-146.33	-270.13	93.00	315.23	207.66	1.46
3199.00	7.40	203.50	3170.49	-290.58	-151.83	-281.15	86.00	327.85	207.59	2.54
3284.00	6.00	195.90	3254.91	-299.87	-155.23	-290.23	85.00	337.67	207.37	1.95
3369.00	4.80	196.20	3339.53	-307.56	-157.44	-297.77	85.00	345.51	207.11	1.41
3455.00	3.50	196.20	3425.30	-313.53	-159.18	-303.63	86.00	351.63	206.92	1.51
3540.00	1.80	192.70	3510.21	-317.33	-160.20	-307.36	85.00	355.47	206.79	2.01
3625.00	1.10	57.40	3595.20	-318.19	-159.80	-308.25	85.00	356.07	206.67	3.17
3711.00	1.10	43.10	3681.18	-317.14	-158.54	-307.28	86.00	354.56	206.56	.32
3796.00	.50	39.80	3766.17	-316.26	-157.75	-306.44	85.00	353.42	206.51	.71
3881.00	.70	313.00	3851.17	-315.62	-157.89	-305.80	85.00	352.91	206.58	.98
3966.00	.90	309.80	3936.16	-314.84	-158.78	-304.96	85.00	352.62	206.76	.24
4052.00	.90	337.20	4022.15	-313.79	-159.56	-303.86	86.00	352.03	206.95	.50
4137.00	1.10	20.30	4107.14	-312.41	-159.54	-302.49	85.00	350.79	207.05	.89
4225.00	1.60	27.10	4195.11	-310.52	-158.69	-300.66	88.00	348.72	207.07	.60
4310.00	1.90	5.00	4280.07	-308.06	-158.02	-298.24	85.00	346.23	207.16	.86
4395.00	1.90	1.30	4365.03	-305.25	-157.87	-295.44	85.00	343.66	207.35	.14
4481.00	.20	276.10	4451.01	-303.81	-157.99	-293.99	86.00	342.43	207.48	2.20
4566.00	.70	225.20	4536.01	-304.16	-158.50	-294.31	85.00	342.98	207.52	.70
4651.00	.90	247.60	4621.00	-304.78	-159.49	-294.87	85.00	343.98	207.62	.43
4736.00	.90	231.60	4705.99	-305.45	-160.63	-295.48	85.00	345.11	207.74	.29
4822.00	.90	245.30	4791.98	-306.15	-161.77	-296.11	86.00	346.26	207.85	.25
4907.00	1.10	129.30	4876.97	-306.94	-161.75	-296.90	85.00	346.95	207.79	2.00
4992.00	1.20	140.20	4961.96	-308.14	-160.54	-298.17	85.00	347.46	207.52	.28
5078.00	.70	144.90	5047.94	-309.27	-159.67	-299.35	86.00	348.05	207.31	.59
5163.00	.50	185.70	5132.94	-310.06	-159.40	-300.15	85.00	348.64	207.21	.54
5248.00	.50	217.30	5217.94	-310.72	-159.67	-300.80	85.00	349.35	207.20	.32
5334.00	.50	254.40	5303.93	-311.12	-160.25	-301.16	86.00	349.97	207.25	.37
5419.00	.50	269.50	5388.93	-311.23	-160.98	-301.22	85.00	350.40	207.35	.15
5504.00	.50	275.90	5473.93	-311.19	-161.72	-301.15	85.00	350.71	207.46	.07
5589.00	.90	288.70	5558.92	-310.94	-162.72	-300.84	85.00	350.94	207.62	.50
5674.00	1.20	67.60	5643.92	-310.39	-162.53	-300.29	85.00	350.37	207.64	2.32
5760.00	1.40	53.30	5729.89	-309.41	-160.86	-299.42	86.00	348.73	207.47	.44
5845.00	1.40	16.60	5814.87	-307.80	-159.73	-297.88	85.00	346.78	207.43	1.04
5931.00	.50	309.40	5900.86	-306.55	-159.72	-296.64	86.00	345.67	207.52	1.50
6016.00	.50	332.50	5985.86	-305.99	-160.18	-296.04	85.00	345.38	207.63	.24
6101.00	1.10	303.30	6070.85	-305.21	-161.03	-295.22	85.00	345.09	207.82	.83
6186.00	.70	179.50	6155.84	-305.28	-161.71	-295.25	85.00	345.47	207.91	1.88
6272.00	.70	89.90	6241.84	-305.81	-161.18	-295.81	86.00	345.68	207.79	1.15
6357.00	.20	346.70	6326.84	-305.66	-160.69	-295.69	85.00	345.33	207.73	.91
6443.00	.70	308.60	6412.83	-305.19	-161.14	-295.19	86.00	345.12	207.83	.65
6528.00	.50	291.90	6497.83	-304.73	-161.89	-294.68	85.00	345.06	207.98	.31
6614.00	1.40	313.30	6583.82	-303.87	-163.00	-293.76	86.00	344.82	208.21	1.11
6656.00	2.50	1.10	6625.79	-302.60	-163.36	-292.47	42.00	343.88	208.36	4.46

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Course Length FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
6699.00	5.30	359.20	6668.69	-299.67	-163.37	-289.55	43.00	341.31	208.60	6.52
6741.00	6.90	6.60	6710.45	-295.23	-163.10	-285.13	42.00	337.29	208.92	4.24
6784.00	8.80	6.10	6753.05	-289.39	-162.46	-279.34	43.00	331.87	209.31	4.42
6827.00	10.40	.10	6795.44	-282.24	-162.10	-272.22	43.00	325.48	209.87	4.38
6869.00	11.30	1.60	6836.69	-274.34	-161.98	-264.34	42.00	318.59	210.56	2.25
6912.00	15.90	5.30	6878.48	-264.25	-161.32	-254.31	43.00	309.60	211.40	10.88
6955.00	20.50	8.70	6919.31	-250.94	-159.63	-241.12	43.00	297.41	212.46	10.97
6997.00	26.60	11.40	6957.80	-234.43	-156.66	-224.82	42.00	281.96	213.75	14.75
7040.00	31.20	11.90	6995.43	-214.09	-152.46	-204.76	43.00	262.83	215.46	10.71
7083.00	37.10	11.00	7031.00	-190.44	-147.68	-181.43	43.00	240.99	217.79	13.77
7125.00	42.70	9.30	7063.21	-163.93	-142.96	-155.24	42.00	217.51	221.09	13.58
7168.00	49.30	9.60	7093.07	-133.43	-137.88	-125.10	43.00	191.87	225.94	15.36
7210.00	55.40	7.50	7118.71	-100.56	-132.96	-92.57	42.00	166.71	232.90	15.05
7253.00	60.10	5.80	7141.65	-64.45	-128.77	-56.77	43.00	144.00	243.41	11.43
7296.00	63.70	4.00	7161.90	-26.67	-125.54	-19.24	43.00	128.34	258.01	9.15
7338.00	67.30	3.10	7179.32	11.47	-123.18	18.69	42.00	123.71	275.32	8.79
7381.00	71.80	1.80	7194.34	51.71	-121.46	58.76	43.00	132.01	293.06	10.84
7423.00	76.80	359.90	7205.70	92.13	-120.87	99.07	42.00	151.98	307.31	12.68
7466.00	82.60	358.80	7213.39	134.41	-121.35	141.31	43.00	181.09	317.92	13.72
7494.00	84.60	358.40	7216.51	162.23	-122.03	169.12	28.00	203.00	323.05	7.28
7597.00	91.60	358.00	7219.92	265.06	-125.26	271.96	103.00	293.16	334.70	6.81
7683.00	92.30	357.40	7216.99	350.94	-128.71	357.90	86.00	373.80	339.86	1.07
7768.00	92.90	356.50	7213.14	435.73	-133.23	442.80	85.00	455.64	343.00	1.27
7853.00	92.60	357.30	7209.06	520.50	-137.82	527.71	85.00	538.44	345.17	1.00
7946.00	91.50	358.00	7205.73	613.36	-141.63	620.63	93.00	629.50	347.00	1.40
8038.00	88.40	359.40	7205.81	705.33	-143.72	712.56	92.00	719.82	348.48	3.70
8131.00	86.90	358.70	7209.63	798.23	-145.26	805.39	93.00	811.34	349.69	1.78
8223.00	86.90	358.10	7214.60	890.06	-147.83	897.21	92.00	902.25	350.57	.65
8316.00	88.50	357.40	7218.33	982.91	-151.47	990.12	93.00	994.51	351.24	1.88
8408.00	90.50	357.10	7219.14	1074.80	-155.89	1082.10	92.00	1086.04	351.75	2.20
8501.00	92.20	356.30	7216.95	1167.61	-161.24	1175.07	93.00	1178.69	352.14	2.02
8594.00	91.30	356.70	7214.11	1260.40	-166.91	1268.03	93.00	1271.40	352.46	1.06
8686.00	90.50	357.80	7212.66	1352.28	-171.33	1360.01	92.00	1363.09	352.78	1.48
8778.00	90.70	358.80	7211.70	1444.23	-174.06	1451.96	92.00	1454.68	353.13	1.11
8870.00	90.00	359.00	7211.14	1536.21	-175.82	1543.89	92.00	1546.24	353.47	.79
8962.00	90.90	358.20	7210.41	1628.18	-178.07	1635.83	92.00	1637.89	353.76	1.31
9053.00	89.90	358.10	7209.78	1719.13	-181.01	1726.79	91.00	1728.63	353.99	1.10
9146.00	90.70	357.20	7209.29	1812.05	-184.82	1819.78	93.00	1821.45	354.18	1.29
9237.00	91.20	358.20	7207.78	1902.96	-188.47	1910.75	91.00	1912.27	354.34	1.23
9329.00	90.50	359.10	7206.42	1994.92	-190.64	2002.68	92.00	2004.01	354.54	1.24
9422.00	90.00	359.50	7206.01	2087.91	-191.78	2095.58	93.00	2096.70	354.75	.69
9514.00	90.10	359.60	7205.93	2179.91	-192.50	2187.46	92.00	2188.39	354.95	.15
9599.00	92.80	359.50	7203.78	2264.87	-193.17	2272.31	85.00	2273.09	355.13	3.18
9684.00	91.90	.00	7200.30	2349.80	-193.54	2357.11	85.00	2357.76	355.29	1.21
9770.00	92.20	.10	7197.22	2435.74	-193.46	2442.90	86.00	2443.41	355.46	.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Course Length FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
9855.00	92.70	.10	7193.59	2520.67	-193.31	2527.67	85.00	2528.07	355.61	.59
9940.00	89.70	.40	7191.81	2605.64	-192.94	2612.47	85.00	2612.77	355.77	3.55
10026.00	87.10	.40	7194.21	2691.59	-192.34	2698.25	86.00	2698.46	355.91	3.02
10111.00	88.50	359.50	7197.47	2776.53	-192.42	2783.04	85.00	2783.19	356.04	1.96
10197.00	89.30	358.60	7199.12	2862.50	-193.84	2868.94	86.00	2869.05	356.13	1.40
10282.00	89.80	358.10	7199.79	2947.46	-196.29	2953.90	85.00	2953.99	356.19	.83
10367.00	90.00	358.80	7199.94	3032.43	-198.59	3038.86	85.00	3038.92	356.25	.86
10452.00	90.90	358.60	7199.27	3117.40	-200.52	3123.80	85.00	3123.85	356.32	1.08
10538.00	91.10	358.80	7197.77	3203.37	-202.47	3209.73	86.00	3209.76	356.38	.33
10623.00	90.90	358.90	7196.28	3288.34	-204.17	3294.65	85.00	3294.67	356.45	.26
10709.00	90.90	358.80	7194.93	3374.31	-205.90	3380.58	86.00	3380.59	356.51	.12
10794.00	88.80	.50	7195.16	3459.30	-206.42	3465.45	85.00	3465.45	356.59	3.18
10879.00	87.30	359.50	7198.05	3544.25	-206.42	3550.25	85.00	3550.25	356.67	2.12
10964.00	87.10	358.80	7202.20	3629.14	-207.68	3635.07	85.00	3635.07	356.72	.86
11049.00	88.30	358.80	7205.61	3714.05	-209.46	3719.94	85.00	3719.95	356.77	1.41
11135.00	90.00	358.90	7206.89	3800.02	-211.18	3805.86	86.00	3805.88	356.82	1.98
11220.00	88.60	358.40	7207.93	3884.98	-213.18	3890.80	85.00	3890.83	356.86	1.75
11305.00	89.60	359.10	7209.26	3969.95	-215.04	3975.73	85.00	3975.77	356.90	1.44
11390.00	90.40	359.80	7209.26	4054.95	-215.85	4060.62	85.00	4060.69	356.95	1.25
11476.00	90.70	.50	7208.44	4140.94	-215.63	4146.46	86.00	4146.55	357.02	.89
11561.00	91.10	359.70	7207.10	4225.93	-215.48	4231.29	85.00	4231.42	357.08	1.05
11646.00	90.50	358.60	7205.91	4310.91	-216.74	4316.20	85.00	4316.36	357.12	1.47
11731.00	90.60	359.10	7205.10	4395.89	-218.45	4401.13	85.00	4401.31	357.16	.60
11817.00	91.10	359.70	7203.82	4481.88	-219.35	4487.02	86.00	4487.24	357.20	.91
11902.00	91.90	359.50	7201.60	4566.84	-219.94	4571.88	85.00	4572.14	357.24	.97
11987.00	92.20	359.30	7198.56	4651.78	-220.83	4656.72	85.00	4657.02	357.28	.42
12073.00	89.40	.40	7197.36	4737.77	-221.05	4742.57	86.00	4742.92	357.33	3.50
12158.00	88.40	.70	7198.99	4822.74	-220.24	4827.35	85.00	4827.77	357.39	1.23
12243.00	88.40	.00	7201.36	4907.71	-219.72	4912.14	85.00	4912.63	357.44	.82
12329.00	88.50	.20	7203.69	4993.68	-219.57	4997.95	86.00	4998.50	357.48	.26
12414.00	89.50	1.40	7205.17	5078.65	-218.38	5082.71	85.00	5083.35	357.54	1.84
12499.00	90.00	.70	7205.54	5163.64	-216.83	5167.45	85.00	5168.19	357.60	1.01
12584.00	91.10	.10	7204.73	5248.63	-216.23	5252.27	85.00	5253.08	357.64	1.47
12669.00	91.90	359.50	7202.50	5333.60	-216.53	5337.11	85.00	5337.99	357.68	1.18
12755.00	90.60	359.00	7200.62	5419.57	-217.65	5422.99	86.00	5423.94	357.70	1.62
12840.00	90.30	359.00	7199.96	5504.55	-219.14	5507.92	85.00	5508.91	357.72	.35
12925.00	90.80	359.30	7199.14	5589.54	-220.40	5592.83	85.00	5593.88	357.74	.69
13010.00	90.80	357.80	7197.95	5674.50	-222.55	5677.77	85.00	5678.87	357.75	1.76
13095.00	90.40	357.40	7197.06	5759.42	-226.11	5762.76	85.00	5763.86	357.75	.67
13183.00	90.10	357.80	7196.68	5847.34	-229.79	5850.74	88.00	5851.86	357.75	.57
13268.00	90.00	358.30	7196.61	5932.30	-232.69	5935.72	85.00	5936.86	357.75	.60
13354.00	89.50	359.50	7196.98	6018.28	-234.34	6021.64	86.00	6022.84	357.77	1.51
13439.00	89.40	359.80	7197.80	6103.27	-234.86	6106.52	85.00	6107.79	357.80	.37
13524.00	89.50	359.20	7198.61	6188.26	-235.60	6191.41	85.00	6192.75	357.82	.72
13609.00	89.50	358.10	7199.35	6273.24	-237.60	6276.35	85.00	6277.73	357.83	1.29

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Course Length FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
13695.00	89.50	357.90	7200.11	6359.18	-240.60	6362.33	86.00	6363.73	357.83	.23
13782.00	90.50	.10	7200.11	6446.16	-242.12	6449.25	87.00	6450.71	357.85	2.78
13865.00	90.00	358.90	7199.74	6529.15	-242.84	6532.14	83.00	6533.67	357.87	1.57
13951.00	90.20	358.80	7199.59	6615.14	-244.57	6618.07	86.00	6619.66	357.88	.26
14036.00	90.30	358.60	7199.22	6700.11	-246.50	6703.02	85.00	6704.65	357.89	.26
14121.00	89.90	357.80	7199.07	6785.07	-249.17	6787.99	85.00	6789.64	357.90	1.05
14207.00	90.00	357.40	7199.15	6871.00	-252.77	6873.97	86.00	6875.64	357.89	.48
14292.00	89.30	356.30	7199.67	6955.86	-257.44	6958.97	85.00	6960.63	357.88	1.53
14377.00	89.10	355.30	7200.85	7040.63	-263.66	7043.95	85.00	7045.56	357.86	1.20
14462.00	90.00	355.00	7201.52	7125.32	-270.85	7128.92	85.00	7130.46	357.82	1.12

Last MWD Survey										
14492.00	90.10	354.40	7201.50	7155.19	-273.62	7158.90	30.00	7160.42	357.81	2.03

Straight Line Projection to TD										
14554.00	90.10	354.40	7201.39	7216.89	-279.67	7220.85	62.00	7222.31	357.78	.00