



Anadarko

Weld Co., Co (NAD 83)

Scott Pad

Scott 26N-32HZ

Wellbore #1

Design: OH

Standard Survey Report

25 May, 2014

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 26N-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 26N-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 26N-32HZ				
Well Position	+N-S	0.0 usft	Northing:	1,304,760.66 usft	Latitude:	40° 10' 6.402 N
	+E-W	0.0 usft	Easting:	3,165,572.79 usft	Longitude:	104° 54' 27.090 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	4.60	

Survey Program	Date	5/25/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	915.0	Survey #1 (Wellbore #1)	CT_GYRO_MS	Continuous Gyro Multishot	
1,073.0	14,570.0	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	0.40	239.77	100.0	-0.2	-0.3	-0.2	0.40	0.40	0.00	
200.0	0.35	227.34	200.0	-0.6	-0.8	-0.6	0.10	-0.05	-12.43	
300.0	0.59	212.30	300.0	-1.2	-1.3	-1.3	0.27	0.24	-15.04	
400.0	0.53	228.28	400.0	-1.9	-1.9	-2.1	0.17	-0.06	15.98	
500.0	0.57	236.50	500.0	-2.5	-2.7	-2.7	0.09	0.04	8.22	
600.0	0.51	236.82	600.0	-3.0	-3.5	-3.3	0.06	-0.06	0.32	
700.0	0.53	229.40	700.0	-3.6	-4.2	-3.9	0.07	0.02	-7.42	
800.0	0.43	224.18	800.0	-4.2	-4.8	-4.5	0.11	-0.10	-5.22	
900.0	0.44	237.92	900.0	-4.6	-5.4	-5.1	0.10	0.01	13.74	

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Well:	Scott 26N-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)
915.0	0.49	231.53	915.0	-4.7	-5.5	-5.1	0.48	0.33	-42.60
1,073.0	0.10	223.10	1,073.0	-5.2	-6.1	-5.7	0.25	-0.25	-5.34
First MWD									
1,167.0	2.50	119.90	1,166.9	-6.3	-4.4	-6.6	2.69	2.55	-109.79
1,260.0	5.40	107.20	1,259.7	-8.6	1.5	-8.5	3.24	3.12	-13.66
1,354.0	7.30	107.70	1,353.1	-11.7	11.4	-10.8	2.02	2.02	0.53
1,447.0	7.80	107.10	1,445.3	-15.4	23.1	-13.5	0.54	0.54	-0.65
1,543.0	8.70	105.40	1,540.3	-19.2	36.3	-16.3	0.97	0.94	-1.77
1,636.0	10.40	111.10	1,632.0	-24.1	50.9	-20.0	2.09	1.83	6.13
1,728.0	13.10	113.90	1,722.1	-31.3	68.2	-25.8	3.00	2.93	3.04
1,820.0	15.20	116.90	1,811.3	-41.0	88.5	-33.8	2.42	2.28	3.26
1,913.0	16.20	111.50	1,900.8	-51.3	111.5	-42.2	1.90	1.08	-5.81
2,005.0	16.40	112.00	1,989.1	-60.9	135.4	-49.8	0.27	0.22	0.54
2,098.0	16.40	119.90	2,078.4	-72.3	159.0	-59.3	2.40	0.00	8.49
2,191.0	15.00	114.80	2,167.9	-83.9	181.3	-69.1	2.11	-1.51	-5.48
2,283.0	15.10	121.10	2,256.8	-95.1	202.4	-78.6	1.78	0.11	6.85
2,375.0	13.10	116.90	2,346.0	-106.0	221.9	-87.9	2.44	-2.17	-4.57
2,467.0	13.60	120.90	2,435.5	-116.3	240.5	-96.6	1.14	0.54	4.35
2,559.0	15.00	122.50	2,524.6	-128.2	259.8	-107.0	1.58	1.52	1.74
2,650.0	17.10	122.90	2,612.1	-141.8	281.0	-118.8	2.31	2.31	0.44
2,743.0	16.00	121.50	2,701.2	-156.0	303.4	-131.1	1.26	-1.18	-1.51
2,834.0	16.20	122.40	2,788.7	-169.3	324.8	-142.7	0.35	0.22	0.99
2,926.0	13.50	118.20	2,877.6	-181.3	345.1	-153.0	3.16	-2.93	-4.57
3,019.0	13.90	118.20	2,967.9	-191.7	364.5	-161.8	0.43	0.43	0.00
3,111.0	14.20	119.30	3,057.2	-202.4	384.1	-171.0	0.44	0.33	1.20
3,196.0	13.50	120.10	3,139.7	-212.5	401.8	-179.6	0.85	-0.82	0.94
3,281.0	13.10	118.60	3,222.4	-222.1	418.8	-187.8	0.62	-0.47	-1.76
3,366.0	13.60	116.60	3,305.1	-231.2	436.2	-195.4	0.80	0.59	-2.35
3,452.0	13.90	118.30	3,388.7	-240.6	454.4	-203.4	0.59	0.35	1.98
3,537.0	13.50	112.90	3,471.3	-249.3	472.5	-210.6	1.58	-0.47	-6.35
3,623.0	13.20	111.80	3,554.9	-256.8	490.9	-216.6	0.46	-0.35	-1.28
3,708.0	12.80	114.20	3,637.8	-264.3	508.5	-222.7	0.79	-0.47	2.82
3,793.0	12.80	114.20	3,720.6	-272.0	525.6	-229.0	0.00	0.00	0.00
3,878.0	12.80	115.80	3,803.5	-280.0	542.7	-235.6	0.42	0.00	1.88
3,963.0	13.20	120.40	3,886.4	-289.0	559.6	-243.2	1.30	0.47	5.41
4,049.0	12.40	123.10	3,970.2	-299.0	575.8	-251.9	1.16	-0.93	3.14
4,134.0	10.90	121.40	4,053.5	-308.2	590.3	-259.8	1.81	-1.76	-2.00
4,219.0	7.50	113.10	4,137.4	-314.5	602.2	-265.2	4.28	-4.00	-9.76
4,304.0	3.70	131.80	4,222.0	-318.5	609.4	-268.7	4.90	-4.47	22.00
4,389.0	1.40	107.70	4,306.9	-320.7	612.4	-270.5	2.93	-2.71	-28.35
4,475.0	1.10	68.40	4,392.8	-320.7	614.2	-270.4	1.03	-0.35	-45.70
4,560.0	0.80	63.40	4,477.8	-320.1	615.5	-269.8	0.37	-0.35	-5.88
4,645.0	1.00	55.10	4,562.8	-319.5	616.6	-269.0	0.28	0.24	-9.76

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Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
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4,731.0	1.40	38.70	4,648.8	-318.2	617.9	-267.6	0.61	0.47	-19.07
4,816.0	1.70	39.30	4,733.8	-316.4	619.3	-265.7	0.35	0.35	0.71
4,901.0	1.80	48.10	4,818.7	-314.5	621.1	-263.7	0.34	0.12	10.35
4,987.0	1.70	36.10	4,904.7	-312.6	622.9	-261.7	0.44	-0.12	-13.95
5,072.0	1.10	121.40	4,989.7	-312.0	624.3	-260.9	2.29	-0.71	100.35
5,157.0	0.80	139.20	5,074.7	-312.9	625.4	-261.7	0.49	-0.35	20.94
5,242.0	0.40	166.10	5,159.7	-313.6	625.9	-262.4	0.56	-0.47	31.65
5,328.0	0.20	215.70	5,245.7	-314.0	625.8	-262.8	0.36	-0.23	57.67
5,413.0	0.50	235.00	5,330.7	-314.4	625.5	-263.2	0.37	0.35	22.71
5,498.0	0.40	322.60	5,415.7	-314.4	625.0	-263.2	0.74	-0.12	103.06
5,583.0	0.90	304.40	5,500.6	-313.7	624.2	-262.7	0.63	0.59	-21.41
5,668.0	1.20	300.80	5,585.6	-312.9	622.9	-261.9	0.36	0.35	-4.24
5,754.0	1.10	309.40	5,671.6	-311.9	621.5	-261.1	0.23	-0.12	10.00
5,839.0	1.20	298.80	5,756.6	-311.0	620.1	-260.2	0.28	0.12	-12.47
5,924.0	1.00	264.40	5,841.6	-310.6	618.6	-260.0	0.80	-0.24	-40.47
6,009.0	0.70	307.30	5,926.6	-310.4	617.4	-259.9	0.80	-0.35	50.47
6,095.0	1.70	215.10	6,012.6	-311.1	616.3	-260.7	2.17	1.16	-107.21
6,180.0	1.10	219.10	6,097.5	-312.8	615.0	-262.4	0.71	-0.71	4.71
6,266.0	0.20	61.50	6,183.5	-313.3	614.7	-263.0	1.50	-1.05	-183.26
6,351.0	0.30	38.20	6,268.5	-313.1	614.9	-262.8	0.17	0.12	-27.41
6,437.0	0.50	74.30	6,354.5	-312.8	615.4	-262.5	0.36	0.23	41.98
6,522.0	0.80	94.40	6,439.5	-312.8	616.4	-262.3	0.44	0.35	23.65
6,607.0	1.00	71.00	6,524.5	-312.6	617.7	-262.0	0.49	0.24	-27.53
6,693.0	2.70	358.20	6,610.5	-310.3	618.3	-259.7	3.01	1.98	-84.65
6,735.0	7.00	349.40	6,652.3	-306.8	617.8	-256.3	10.36	10.24	-20.95
6,778.0	10.80	350.10	6,694.8	-300.2	616.6	-249.8	8.84	8.84	1.63
6,821.0	14.40	351.80	6,736.7	-291.0	615.2	-240.7	8.42	8.37	3.95
6,864.0	17.70	354.10	6,778.1	-279.2	613.7	-229.1	7.81	7.67	5.35
6,907.0	21.20	355.60	6,818.6	-264.9	612.5	-215.0	8.22	8.14	3.49
6,949.0	24.40	356.50	6,857.3	-248.7	611.4	-198.9	7.66	7.62	2.14
6,992.0	27.50	357.20	6,896.0	-229.9	610.3	-180.2	7.24	7.21	1.63
7,034.0	31.00	354.50	6,932.6	-209.4	608.8	-159.9	8.90	8.33	-6.43
7,077.0	34.60	350.40	6,968.8	-186.4	605.7	-137.2	9.83	8.37	-9.53
7,120.0	37.80	349.30	7,003.5	-161.4	601.2	-112.6	7.59	7.44	-2.56
7,162.0	41.00	353.00	7,035.9	-135.0	597.2	-86.7	9.45	7.62	8.81
7,205.0	44.80	354.70	7,067.4	-106.0	594.0	-58.0	9.24	8.84	3.95
7,248.0	49.50	355.70	7,096.6	-74.5	591.4	-26.9	11.06	10.93	2.33
7,290.0	53.90	357.80	7,122.7	-41.6	589.6	5.8	11.19	10.48	5.00
7,333.0	58.70	357.90	7,146.5	-5.9	588.2	41.3	11.16	11.16	0.23
7,376.0	62.90	358.50	7,167.5	31.6	587.1	78.6	9.84	9.77	1.40
7,419.0	67.01	0.70	7,185.7	70.5	586.8	117.4	10.62	9.56	5.12
7,462.0	73.50	2.20	7,200.2	111.0	587.8	157.8	15.45	15.09	3.49
7,482.0	77.70	2.70	7,205.2	130.3	588.7	177.1	21.14	21.00	2.50

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Site:	Scott Pad	MD Reference:	Well @ 4890.0usft (Xtreme 23)
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7,533.0	90.00	2.70	7,210.6	180.9	591.0	227.7	24.12	24.12	0.00	
Actual 7" csg @7533' MD / 7210' TVD /2259' FNL & 276' FEL Sec 5 - 7"										
7,597.0	91.80	3.20	7,209.6	244.8	594.3	291.7	2.92	2.81	0.78	
7,682.0	92.80	2.80	7,206.2	329.6	598.8	376.6	1.27	1.18	-0.47	
7,767.0	91.90	1.90	7,202.7	414.5	602.3	461.4	1.50	-1.06	-1.06	
7,853.0	91.50	1.80	7,200.2	500.4	605.0	547.3	0.48	-0.47	-0.12	
7,938.0	90.90	1.70	7,198.4	585.3	607.6	632.2	0.72	-0.71	-0.12	
8,031.0	89.70	0.80	7,197.9	678.3	609.7	725.0	1.61	-1.29	-0.97	
8,123.0	91.60	0.20	7,196.9	770.3	610.5	816.7	2.17	2.07	-0.65	
8,216.0	91.50	0.30	7,194.4	863.2	610.9	909.4	0.15	-0.11	0.11	
8,308.0	89.80	1.00	7,193.3	955.2	611.9	1,001.2	2.00	-1.85	0.76	
8,401.0	90.70	0.60	7,192.9	1,048.2	613.2	1,094.0	1.06	0.97	-0.43	
8,493.0	90.60	2.00	7,191.9	1,140.2	615.3	1,185.9	1.53	-0.11	1.52	
8,585.0	89.40	2.40	7,191.9	1,232.1	618.8	1,277.8	1.37	-1.30	0.43	
8,678.0	90.30	1.50	7,192.1	1,325.1	622.0	1,370.7	1.37	0.97	-0.97	
8,770.0	90.90	0.30	7,191.1	1,417.0	623.4	1,462.5	1.46	0.65	-1.30	
8,862.0	91.40	0.30	7,189.3	1,509.0	623.9	1,554.2	0.54	0.54	0.00	
8,954.0	91.00	359.50	7,187.4	1,601.0	623.8	1,645.9	0.97	-0.43	-0.87	
9,046.0	90.10	359.00	7,186.5	1,693.0	622.6	1,737.5	1.12	-0.98	-0.54	
9,138.0	90.20	359.40	7,186.2	1,785.0	621.3	1,829.0	0.45	0.11	0.43	
9,230.0	90.70	359.70	7,185.5	1,877.0	620.6	1,920.7	0.63	0.54	0.33	
9,321.0	90.90	359.70	7,184.3	1,968.0	620.1	2,011.3	0.22	0.22	0.00	
9,414.0	89.70	359.90	7,183.8	2,060.9	619.8	2,104.0	1.31	-1.29	0.22	
9,506.0	91.30	0.10	7,183.0	2,152.9	619.8	2,195.7	1.75	1.74	0.22	
9,598.0	90.00	0.20	7,181.9	2,244.9	620.0	2,287.4	1.42	-1.41	0.11	
9,683.0	89.30	0.00	7,182.4	2,329.9	620.1	2,372.2	0.86	-0.82	-0.24	
9,769.0	89.70	359.30	7,183.2	2,415.9	619.6	2,457.8	0.94	0.47	-0.81	
9,854.0	90.00	359.40	7,183.4	2,500.9	618.7	2,542.5	0.37	0.35	0.12	
9,939.0	89.80	0.30	7,183.6	2,585.9	618.4	2,627.2	1.08	-0.24	1.06	
10,025.0	88.60	1.10	7,184.8	2,671.9	619.5	2,713.0	1.68	-1.40	0.93	
10,110.0	89.60	0.80	7,186.1	2,756.9	620.9	2,797.8	1.23	1.18	-0.35	
10,195.0	89.70	1.50	7,186.6	2,841.9	622.6	2,882.6	0.83	0.12	0.82	
10,280.0	89.50	1.00	7,187.2	2,926.8	624.4	2,967.5	0.63	-0.24	-0.59	
10,366.0	91.30	0.60	7,186.6	3,012.8	625.6	3,053.3	2.14	2.09	-0.47	
10,451.0	91.20	0.20	7,184.8	3,097.8	626.2	3,138.0	0.48	-0.12	-0.47	
10,536.0	90.10	359.30	7,183.8	3,182.8	625.9	3,222.7	1.67	-1.29	-1.06	
10,621.0	89.00	358.80	7,184.5	3,267.8	624.5	3,307.3	1.42	-1.29	-0.59	
10,707.0	91.00	358.30	7,184.5	3,353.7	622.3	3,392.8	2.40	2.33	-0.58	
10,792.0	91.20	358.10	7,182.8	3,438.7	619.6	3,477.3	0.33	0.24	-0.24	
10,877.0	89.80	358.30	7,182.1	3,523.6	616.9	3,561.8	1.66	-1.65	0.24	
10,962.0	89.20	357.70	7,182.8	3,608.6	614.0	3,646.2	1.00	-0.71	-0.71	
11,047.0	90.00	357.40	7,183.4	3,693.5	610.3	3,730.6	1.01	0.94	-0.35	
11,133.0	90.70	358.20	7,182.9	3,779.4	607.0	3,815.9	1.24	0.81	0.93	
11,218.0	90.00	359.40	7,182.4	3,864.4	605.3	3,900.5	1.63	-0.82	1.41	

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 26N-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 26N-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)
11,303.0	91.60	359.60	7,181.2	3,949.4	604.5	3,985.2	1.90	1.88	0.24
11,389.0	91.20	359.80	7,179.1	4,035.4	604.1	4,070.8	0.52	-0.47	0.23
11,474.0	89.20	359.00	7,178.8	4,120.4	603.2	4,155.5	2.53	-2.35	-0.94
11,560.0	89.80	358.80	7,179.5	4,206.3	601.5	4,241.0	0.74	0.70	-0.23
11,644.0	89.30	358.90	7,180.2	4,290.3	599.8	4,324.6	0.61	-0.60	0.12
11,730.0	90.40	359.50	7,180.4	4,376.3	598.6	4,410.2	1.46	1.28	0.70
11,815.0	90.70	359.50	7,179.6	4,461.3	597.9	4,494.9	0.35	0.35	0.00
11,900.0	90.70	358.70	7,178.6	4,546.3	596.6	4,579.5	0.94	0.00	-0.94
11,985.0	90.70	359.20	7,177.5	4,631.3	595.0	4,664.1	0.59	0.00	0.59
12,071.0	90.10	359.30	7,176.9	4,717.3	593.9	4,749.7	0.71	-0.70	0.12
12,156.0	89.40	359.50	7,177.3	4,802.3	593.0	4,834.3	0.86	-0.82	0.24
12,241.0	91.10	359.70	7,176.9	4,887.2	592.4	4,919.0	2.01	2.00	0.24
12,326.0	91.00	0.20	7,175.4	4,972.2	592.3	5,003.7	0.60	-0.12	0.59
12,412.0	89.80	0.60	7,174.8	5,058.2	592.9	5,089.5	1.47	-1.40	0.47
12,497.0	89.70	0.90	7,175.1	5,143.2	594.0	5,174.3	0.37	-0.12	0.35
12,582.0	91.40	0.60	7,174.3	5,228.2	595.2	5,259.1	2.03	2.00	-0.35
12,668.0	90.80	1.20	7,172.7	5,314.2	596.5	5,344.9	0.99	-0.70	0.70
12,753.0	90.10	1.10	7,172.0	5,399.2	598.2	5,429.7	0.83	-0.82	-0.12
12,838.0	89.30	1.10	7,172.5	5,484.1	599.8	5,514.6	0.94	-0.94	0.00
12,923.0	91.20	1.10	7,172.1	5,569.1	601.5	5,599.4	2.24	2.24	0.00
13,009.0	91.70	0.60	7,169.9	5,655.1	602.7	5,685.2	0.82	0.58	-0.58
13,094.0	89.80	0.60	7,168.8	5,740.1	603.6	5,770.0	2.24	-2.24	0.00
13,179.0	88.90	1.00	7,169.8	5,825.0	604.8	5,854.8	1.16	-1.06	0.47
13,266.0	90.00	0.90	7,170.6	5,912.0	606.3	5,941.6	1.27	1.26	-0.11
13,353.0	89.90	1.40	7,170.7	5,999.0	608.0	6,028.5	0.59	-0.11	0.57
13,439.0	89.50	1.00	7,171.1	6,085.0	609.8	6,114.3	0.66	-0.47	-0.47
13,524.0	91.00	1.10	7,170.8	6,170.0	611.4	6,199.1	1.77	1.76	0.12
13,609.0	90.20	0.30	7,169.9	6,255.0	612.4	6,283.9	1.33	-0.94	-0.94
13,694.0	89.20	0.20	7,170.3	6,340.0	612.8	6,368.7	1.18	-1.18	-0.12
13,780.0	90.30	0.50	7,170.7	6,426.0	613.3	6,454.4	1.33	1.28	0.35
13,865.0	90.50	359.90	7,170.1	6,511.0	613.6	6,539.2	0.74	0.24	-0.71
13,951.0	90.80	359.60	7,169.1	6,596.9	613.2	6,624.9	0.49	0.35	-0.35
14,036.0	91.50	359.10	7,167.4	6,681.9	612.3	6,709.5	1.01	0.82	-0.59
14,121.0	92.10	359.40	7,164.7	6,766.9	611.2	6,794.1	0.79	0.71	0.35
14,206.0	92.50	359.30	7,161.3	6,851.8	610.2	6,878.7	0.49	0.47	-0.12
14,292.0	92.40	359.40	7,157.7	6,937.7	609.2	6,964.2	0.16	-0.12	0.12
14,377.0	89.80	0.10	7,156.0	7,022.7	608.8	7,048.9	3.17	-3.06	0.82
14,462.0	89.30	359.40	7,156.7	7,107.7	608.5	7,133.6	1.01	-0.59	-0.82
14,508.0	89.80	359.50	7,157.0	7,153.7	608.0	7,179.4	1.11	1.09	0.22
Last MWD									
14,570.0	89.80	359.50	7,157.3	7,215.7	607.5	7,241.2	0.00	0.00	0.00
PTD @ 14570' MD / 7157' TVD / 510' FNL & 221' FEL Sec 32									

IDS

Survey Report

Company:	Anadarko	Local Co-ordinate Reference:	Well Scott 26N-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 26N-32HZ	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
7,533.0	7,210.6	7"		7	8-3/4

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,073.0	1,073.0	-5.2	-6.1	First MWD	
7,533.0	7,210.6	180.9	591.0	Actual 7" csg @7533' MD / 7210' TVD /2259' FNL & 276' FEL Sec 5	
14,508.0	7,157.0	7,153.7	608.0	Last MWD	
14,570.0	7,157.3	7,215.7	607.5	PTD @ 14570' MD / 7157' TVD / 510' FNL & 221' FEL Sec 32	

Checked By: _____	Approved By: _____	Date: _____
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Job Number: CO14245AN
 Company: Anadarko
 Lease/Well: Scott 26N-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\C14245N.SVY
 Date/Time: 27-May-14 / 12:44
 Curve Name: Scott 26N-32HZ- AS Drilled

Integrity Directional Services

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 4.60
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Course Length FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Tied Into Gyro										
915.00	.49	231.53	914.97	-4.70	-5.52	-5.13		7.25	229.57	.00
First MWD Survey										
1073.00	.10	223.10	1072.97	-5.22	-6.14	-5.70	158.00	8.06	229.63	.25
1167.00	2.50	119.90	1166.94	-6.30	-4.42	-6.64	94.00	7.70	215.03	2.69
1260.00	5.40	107.20	1259.71	-8.61	1.52	-8.46	93.00	8.74	169.98	3.24
1354.00	7.30	107.70	1353.13	-11.73	11.44	-10.78	94.00	16.38	135.73	2.02
1447.00	7.80	107.10	1445.32	-15.38	23.10	-13.48	93.00	27.75	123.67	.54
1543.00	8.70	105.40	1540.33	-19.23	36.32	-16.25	96.00	41.10	117.89	.97
1636.00	10.40	111.10	1632.04	-24.12	50.94	-19.96	93.00	56.36	115.34	2.09
1728.00	13.10	113.90	1722.10	-31.33	68.22	-25.76	92.00	75.07	114.67	3.00
1820.00	15.20	116.90	1811.31	-41.02	88.51	-33.78	92.00	97.55	114.86	2.42
1913.00	16.30	111.10	1900.82	-51.23	111.56	-42.12	93.00	122.76	114.67	2.06
2005.00	16.40	112.00	1989.10	-60.74	135.65	-49.67	92.00	148.63	114.12	.30
2098.00	16.40	119.90	2078.32	-72.21	159.21	-59.21	93.00	174.81	114.40	2.40
2191.00	15.00	114.90	2167.86	-83.82	181.51	-68.99	93.00	199.92	114.79	2.09
2283.00	15.10	121.10	2256.71	-95.02	202.57	-78.47	92.00	223.75	115.13	1.75
2375.00	13.10	116.90	2345.93	-105.93	222.13	-87.78	92.00	246.09	115.50	2.44
2467.00	13.60	120.90	2435.45	-116.20	240.71	-96.53	92.00	267.29	115.77	1.14
2559.00	15.00	122.50	2524.60	-128.16	260.03	-106.89	92.00	289.90	116.24	1.58
2650.00	17.10	122.90	2612.04	-141.75	281.20	-118.74	91.00	314.91	116.75	2.31
2743.00	16.00	121.50	2701.19	-155.88	303.61	-131.03	93.00	341.28	117.18	1.26
2834.00	16.20	122.40	2788.62	-169.23	325.02	-142.62	91.00	366.44	117.51	.35

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
2926.00	13.50	118.20	2877.54	-181.18	345.32	-152.91	92.00	389.97	117.69	3.16
3019.00	13.90	118.20	2967.90	-191.59	364.73	-161.72	93.00	411.99	117.71	.43
3111.00	14.20	119.30	3057.14	-202.34	384.31	-170.86	92.00	434.32	117.77	.44
3196.00	13.50	120.10	3139.67	-212.42	401.99	-179.49	85.00	454.66	117.85	.85
3281.00	13.10	118.60	3222.39	-222.00	419.03	-187.68	85.00	474.21	117.91	.62
3366.00	13.60	116.60	3305.10	-231.09	436.42	-195.34	85.00	493.83	117.90	.80
3452.00	13.90	118.30	3388.63	-240.51	454.56	-203.28	86.00	514.27	117.88	.59
3537.00	13.50	112.90	3471.22	-249.21	472.69	-210.50	85.00	534.36	117.80	1.58
3623.00	13.20	111.80	3554.89	-256.77	491.05	-216.56	86.00	554.13	117.60	.46
3708.00	12.80	114.20	3637.72	-264.23	508.65	-222.59	85.00	573.19	117.45	.79
3793.00	12.80	114.20	3720.60	-271.95	525.83	-228.90	85.00	591.99	117.35	.00
3878.00	12.80	115.80	3803.49	-279.91	542.90	-235.47	85.00	610.81	117.27	.42
3963.00	13.20	120.40	3886.31	-288.92	559.74	-243.10	85.00	629.91	117.30	1.30
4049.00	12.40	123.10	3970.18	-298.93	575.95	-251.78	86.00	648.90	117.43	1.16
4134.00	10.90	121.40	4053.42	-308.10	590.45	-259.75	85.00	666.00	117.56	1.81
4219.00	7.50	113.10	4137.32	-314.47	602.42	-265.14	85.00	679.56	117.56	4.28
4304.00	3.70	131.80	4221.91	-318.47	609.57	-268.56	85.00	687.75	117.58	4.90
4389.00	1.40	107.70	4306.82	-320.62	612.60	-270.45	85.00	691.43	117.63	2.93
4475.00	1.10	68.40	4392.80	-320.63	614.37	-270.33	86.00	693.01	117.56	1.03
4560.00	.80	63.40	4477.79	-320.07	615.66	-269.66	85.00	693.89	117.47	.37
4645.00	1.00	55.10	4562.78	-319.38	616.80	-268.88	85.00	694.58	117.37	.28
4731.00	1.40	38.70	4648.76	-318.13	618.07	-267.53	86.00	695.14	117.24	.61
4816.00	1.70	39.30	4733.73	-316.34	619.52	-265.64	85.00	695.61	117.05	.35
4901.00	1.80	48.10	4818.69	-314.47	621.31	-263.63	85.00	696.36	116.85	.34
4987.00	1.70	36.10	4904.65	-312.54	623.07	-261.56	86.00	697.06	116.64	.44
5072.00	1.10	121.40	4989.63	-311.95	624.51	-260.86	85.00	698.09	116.54	2.29
5157.00	.80	139.20	5074.62	-312.82	625.59	-261.64	85.00	699.45	116.57	.49
5242.00	.40	166.10	5159.61	-313.56	626.05	-262.34	85.00	700.19	116.60	.56
5328.00	.20	215.70	5245.61	-313.97	626.04	-262.75	86.00	700.36	116.63	.36
5413.00	.50	235.00	5330.61	-314.30	625.65	-263.12	85.00	700.16	116.67	.37
5498.00	.40	322.60	5415.61	-314.28	625.16	-263.13	85.00	699.72	116.69	.74
5583.00	.90	304.40	5500.60	-313.67	624.43	-262.58	85.00	698.79	116.67	.63
5668.00	1.20	300.80	5585.59	-312.84	623.12	-261.86	85.00	697.24	116.66	.36
5754.00	1.10	309.40	5671.57	-311.85	621.71	-260.99	86.00	695.53	116.64	.23
5839.00	1.20	298.80	5756.56	-310.90	620.30	-260.16	85.00	693.85	116.62	.28
5924.00	1.00	264.40	5841.54	-310.55	618.78	-259.92	85.00	692.33	116.65	.80
6009.00	.70	307.30	5926.53	-310.31	617.63	-259.77	85.00	691.20	116.68	.80
6095.00	1.70	215.10	6012.52	-311.03	616.47	-260.59	86.00	690.49	116.77	2.17
6180.00	1.10	219.10	6097.49	-312.70	615.23	-262.35	85.00	690.14	116.94	.71
6266.00	.20	61.50	6183.49	-313.26	614.85	-262.95	86.00	690.05	117.00	1.50
6351.00	.30	38.20	6268.49	-313.02	615.11	-262.68	85.00	690.18	116.97	.17
6437.00	.50	74.30	6354.48	-312.74	615.61	-262.36	86.00	690.50	116.93	.36
6522.00	.60	94.40	6439.48	-312.67	616.42	-262.23	85.00	691.18	116.90	.25
6607.00	1.00	71.00	6524.47	-312.47	617.56	-261.93	85.00	692.11	116.84	.60
6693.00	2.70	358.20	6610.43	-310.20	618.21	-259.62	86.00	691.67	116.65	3.01

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
6735.00	7.00	349.40	6652.27	-306.69	617.70	-256.16	42.00	689.65	116.40	10.36
6778.00	10.80	350.10	6694.75	-300.15	616.53	-249.73	43.00	685.71	115.96	8.84
6821.00	14.40	351.80	6736.70	-290.88	615.07	-240.62	43.00	680.39	115.31	8.42
6864.00	17.70	354.10	6778.02	-279.08	613.64	-228.97	43.00	674.12	114.46	7.81
6907.00	21.20	355.60	6818.56	-264.83	612.37	-214.86	43.00	667.18	113.39	8.22
6949.00	24.20	356.50	6857.31	-248.66	611.26	-198.83	42.00	659.90	112.14	7.19
6992.00	27.50	357.20	6896.00	-229.94	610.24	-180.26	43.00	652.12	110.65	7.71
7034.00	31.00	354.50	6932.64	-209.48	608.73	-159.99	42.00	643.76	108.99	8.90
7077.00	34.60	350.40	6968.78	-186.41	605.63	-137.24	43.00	633.67	107.11	9.83
7120.00	37.80	349.30	7003.48	-161.42	601.14	-112.69	43.00	622.44	105.03	7.59
7162.00	41.00	353.00	7035.93	-135.09	597.07	-86.77	42.00	612.16	102.75	9.45
7205.00	44.80	354.70	7067.43	-105.99	593.95	-58.01	43.00	603.34	100.12	9.24
7248.00	49.50	355.70	7096.66	-74.58	591.33	-26.92	43.00	596.01	97.19	11.06
7290.00	53.90	357.80	7122.69	-41.69	589.48	5.72	42.00	590.95	94.05	11.19
7333.00	58.70	357.90	7146.54	-5.95	588.14	41.24	43.00	588.17	90.58	11.16
7376.00	62.90	358.50	7167.51	31.56	586.96	78.53	43.00	587.81	86.92	9.84
7419.00	67.10	.70	7185.68	70.52	586.70	117.35	43.00	590.93	83.15	10.81
7462.00	73.50	2.20	7200.17	110.97	587.74	157.75	43.00	598.12	79.31	15.24
7482.00	77.70	2.70	7205.14	130.32	588.57	177.10	20.00	602.82	77.52	21.14
Actual 7" Casing										
7533.00	90.00	2.70	7210.60	180.87	590.95	227.68	51.00	618.01	72.98	24.12
7597.00	91.80	3.20	7209.59	244.77	594.24	291.64	64.00	642.68	67.61	2.92
7682.00	92.80	2.80	7206.18	329.59	598.69	376.54	85.00	683.42	61.17	1.27
7767.00	91.90	1.90	7202.70	414.44	602.17	461.40	85.00	731.01	55.46	1.50
7853.00	91.50	1.80	7200.14	500.36	604.95	547.26	86.00	785.06	50.41	.48
7938.00	90.90	1.70	7198.36	585.30	607.54	632.14	85.00	843.61	46.07	.72
8031.00	89.70	.80	7197.88	678.28	609.57	724.98	93.00	911.94	41.95	1.61
8123.00	91.60	.20	7196.83	770.26	610.37	816.73	92.00	982.78	38.39	2.17
8216.00	91.50	.30	7194.32	863.23	610.78	909.43	93.00	1057.45	35.28	.15
8308.00	89.80	1.00	7193.27	955.21	611.82	1001.20	92.00	1134.35	32.64	2.00
8401.00	90.70	.60	7192.87	1048.20	613.12	1094.00	93.00	1214.35	30.32	1.06
8493.00	90.60	2.00	7191.83	1140.17	615.21	1185.83	92.00	1295.56	28.35	1.53
8585.00	89.40	2.40	7191.83	1232.10	618.74	1277.75	92.00	1378.73	26.67	1.37
8678.00	90.30	1.50	7192.07	1325.04	621.90	1370.65	93.00	1463.73	25.14	1.37
8770.00	90.90	.30	7191.11	1417.02	623.35	1462.45	92.00	1548.07	23.74	1.46
8862.00	91.40	.30	7189.26	1509.00	623.83	1554.17	92.00	1632.87	22.46	.54
8954.00	91.00	359.50	7187.33	1600.98	623.67	1645.84	92.00	1718.17	21.28	.97
9046.00	90.10	359.00	7186.45	1692.97	622.47	1737.44	92.00	1803.78	20.19	1.12
9138.00	90.20	359.40	7186.21	1784.96	621.18	1829.03	92.00	1889.96	19.19	.45
9230.00	90.70	359.70	7185.49	1876.95	620.46	1920.67	92.00	1976.85	18.29	.63
9321.00	90.90	359.70	7184.21	1967.94	619.98	2011.33	91.00	2063.29	17.49	.22
9414.00	89.70	359.90	7183.73	2060.94	619.66	2104.00	93.00	2152.08	16.73	1.31
9506.00	91.30	.10	7182.93	2152.93	619.66	2195.69	92.00	2240.33	16.06	1.75
9598.00	90.00	.20	7181.88	2244.93	619.90	2287.41	92.00	2328.94	15.44	1.42
9683.00	89.30	.00	7182.40	2329.92	620.05	2372.14	85.00	2411.02	14.90	.86

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
9769.00	89.70	359.30	7183.15	2415.92	619.52	2457.82	86.00	2494.09	14.38	.94
9854.00	90.00	359.40	7183.37	2500.91	618.56	2542.46	85.00	2576.27	13.89	.37
9939.00	89.80	.30	7183.52	2585.91	618.33	2627.17	85.00	2658.81	13.45	1.08
10025.00	88.60	1.10	7184.72	2671.89	619.38	2712.96	86.00	2742.74	13.05	1.68
10110.00	89.60	.80	7186.06	2756.87	620.79	2797.78	85.00	2825.90	12.69	1.23
10195.00	89.70	1.50	7186.58	2841.85	622.50	2882.62	85.00	2909.23	12.36	.83
10280.00	89.50	1.00	7187.17	2926.83	624.35	2967.47	85.00	2992.68	12.04	.63
10366.00	91.30	.60	7186.57	3012.81	625.55	3053.28	86.00	3077.07	11.73	2.14
10451.00	91.20	.20	7184.72	3097.79	626.15	3138.03	85.00	3160.44	11.43	.48
10536.00	90.10	359.30	7183.75	3182.78	625.78	3222.72	85.00	3243.72	11.12	1.67
10621.00	89.00	358.80	7184.42	3267.77	624.37	3307.31	85.00	3326.88	10.82	1.42
10707.00	91.00	358.30	7184.42	3353.73	622.19	3392.83	86.00	3410.96	10.51	2.40
10792.00	91.20	358.10	7182.79	3438.68	619.52	3477.29	85.00	3494.04	10.21	.33
10877.00	89.80	358.30	7182.05	3523.63	616.85	3561.75	85.00	3577.22	9.93	1.66
10962.00	89.20	357.70	7182.79	3608.57	613.89	3646.18	85.00	3660.42	9.65	1.00
11047.00	90.00	357.40	7183.38	3693.49	610.25	3730.54	85.00	3743.57	9.38	1.01
11133.00	90.70	358.20	7182.86	3779.43	606.95	3815.93	86.00	3827.85	9.12	1.24
11218.00	90.00	359.40	7182.34	3864.40	605.17	3900.49	85.00	3911.50	8.90	1.63
11303.00	91.60	359.60	7181.15	3949.39	604.43	3985.14	85.00	3995.37	8.70	1.90
11389.00	91.20	359.80	7179.05	4035.36	603.98	4070.80	86.00	4080.31	8.51	.52
11474.00	89.20	359.00	7178.75	4120.35	603.09	4155.45	85.00	4164.26	8.33	2.53
11560.00	89.80	358.80	7179.50	4206.33	601.44	4241.02	86.00	4249.11	8.14	.74
11644.00	89.30	358.90	7180.16	4290.31	599.75	4324.59	84.00	4332.03	7.96	.61
11730.00	90.40	359.50	7180.39	4376.30	598.55	4410.21	86.00	4417.05	7.79	1.46
11815.00	90.70	359.50	7179.57	4461.30	597.81	4494.87	85.00	4501.17	7.63	.35
11900.00	90.70	358.70	7178.53	4546.28	596.48	4579.47	85.00	4585.24	7.47	.94
11985.00	90.70	359.20	7177.49	4631.26	594.92	4664.05	85.00	4669.31	7.32	.59
12071.00	90.10	359.30	7176.89	4717.25	593.79	4749.67	86.00	4754.47	7.17	.71
12156.00	89.40	359.50	7177.26	4802.24	592.90	4834.32	85.00	4838.70	7.04	.86
12241.00	91.10	359.70	7176.89	4887.24	592.31	4919.00	85.00	4923.00	6.91	2.01
12326.00	91.00	.20	7175.34	4972.22	592.23	5003.70	85.00	5007.37	6.79	.60
12412.00	89.80	.60	7174.74	5058.22	592.83	5089.47	86.00	5092.84	6.68	1.47
12497.00	89.70	.90	7175.11	5143.21	593.95	5174.27	85.00	5177.39	6.59	.37
12582.00	91.40	.60	7174.29	5228.19	595.06	5259.08	85.00	5261.95	6.49	2.03
12668.00	90.80	1.20	7172.64	5314.17	596.41	5344.88	86.00	5347.53	6.40	.99
12753.00	90.10	1.10	7171.97	5399.15	598.12	5429.72	85.00	5432.17	6.32	.83
12838.00	89.30	1.10	7172.42	5484.13	599.75	5514.56	85.00	5516.82	6.24	.94
12923.00	91.20	1.10	7172.05	5569.11	601.38	5599.40	85.00	5601.48	6.16	2.24
13009.00	91.70	.60	7169.87	5655.07	602.66	5685.19	86.00	5687.09	6.08	.82
13094.00	89.80	.60	7168.76	5740.05	603.55	5769.97	85.00	5771.70	6.00	2.24
13179.00	88.90	1.00	7169.72	5825.04	604.73	5854.77	85.00	5856.35	5.93	1.16
13266.00	90.00	.90	7170.56	5912.02	606.17	5941.59	87.00	5943.02	5.85	1.27
13353.00	89.90	1.40	7170.63	5999.00	607.92	6028.43	87.00	6029.73	5.79	.59
13439.00	89.50	1.00	7171.08	6084.98	609.72	6114.28	86.00	6115.45	5.72	.66
13524.00	91.00	1.10	7170.71	6169.97	611.28	6199.12	85.00	6200.17	5.66	1.77

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
13609.00	90.20	.30	7169.82	6254.95	612.32	6283.91	85.00	6284.85	5.59	1.33
13694.00	89.20	.20	7170.27	6339.95	612.69	6368.67	85.00	6369.49	5.52	1.18
13780.00	90.30	.50	7170.64	6425.95	613.21	6454.43	86.00	6455.14	5.45	1.33
13865.00	90.50	359.90	7170.05	6510.94	613.51	6539.17	85.00	6539.78	5.38	.74
13951.00	90.80	359.60	7169.07	6596.94	613.14	6624.86	86.00	6625.37	5.31	.49
14036.00	91.50	359.10	7167.37	6681.91	612.17	6709.49	85.00	6709.90	5.23	1.01
14121.00	92.10	359.40	7164.70	6766.86	611.06	6794.07	85.00	6794.40	5.16	.79
14206.00	92.50	359.30	7161.29	6851.79	610.10	6878.65	85.00	6878.90	5.09	.49
14292.00	92.40	359.40	7157.61	6937.71	609.12	6964.21	86.00	6964.39	5.02	.16
14377.00	89.80	.10	7155.98	7022.68	608.75	7048.88	85.00	7049.02	4.95	3.17
14462.00	89.30	359.40	7156.65	7107.68	608.38	7133.57	85.00	7133.67	4.89	1.01
Last MWD Survey										
14508.00	89.80	359.50	7157.01	7153.67	607.94	7179.39	46.00	7179.46	4.86	1.11
Straight Line Projection to TD										
14570.00	89.80	359.50	7157.22	7215.67	607.40	7241.14	62.00	7241.19	4.81	.00