

30-015-42/23



Conoco Phillips

Eddy County, New Mexico - NAD 27
Sec 27, T26S, R31E
Stampede Federal WC COM 34 #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

15 September, 2014

HOEBS OCD

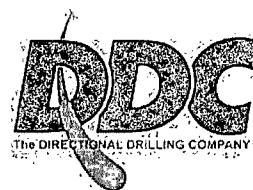
DEC 01 2014

RECEIVED

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 1 X 2014

RECEIVED



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, New Mexico - NAD:27		
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:	Sec 27, T26S, R31E		
Site Position:		Northing:	368,534.33 usft
From:	Map	Easting:	674,660.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 43.067 N
		Longitude:	103° 46' 11.398 W
		Grid Convergence:	0.30 °

Well:	Stampede Federal WC COM 34 #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 0' 2.698 N
		Longitude:	103° 46' 22.282 W
		Ground Level:	3,138.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2013	8/10/2014	7.11
			Dip Angle
			59.87
			Field Strength
			48,176

Design:	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.68

Survey Program:	Date: 9/15/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
137.0	18,429.0	MWD (Wellbore #1)	MWD default
			MWD - Standard

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
First MWD Survey @ 137' MD / 137' TVD										
137.0	0.80	284.60	137.0	0.2	-0.9	0.2	0.58	0.58	0.00	
231.0	0.80	265.80	231.0	0.4	-2.2	0.4	0.28	0.00	-20.00	
324.0	0.90	267.70	324.0	0.3	-3.6	0.3	0.11	0.11	2.04	
419.0	0.90	259.60	419.0	0.1	-5.1	0.1	0.13	0.00	-8.53	
511.0	1.00	272.30	511.0	0.0	-6.6	0.1	0.25	0.11	13.80	
602.0	0.90	271.10	601.9	0.1	-8.1	0.1	0.11	-0.11	-1.32	
693.0	0.10	357.70	692.9	0.2	-8.8	0.2	0.99	-0.88	95.16	
787.0	0.70	15.40	786.9	0.8	-8.7	0.8	0.64	0.64	18.83	
882.0	1.50	19.60	881.9	2.5	-8.1	2.6	0.85	0.84	4.42	

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)	
976.0	2.30	9.60	975.9	5.5	-7.4	5.6	0.92	0.85	-10.64	
1,070.0	0.40	37.40	1,069.8	7.7	-6.8	7.7	2.08	-2.02	29.57	
1,164.0	2.30	173.00	1,163.8	6.1	-6.4	6.1	2.77	2.02	144.26	
1,259.0	4.30	184.90	1,258.6	0.6	-6.5	0.6	2.21	2.11	12.53	
1,353.0	6.00	186.00	1,352.3	-7.8	-7.3	-7.7	1.81	1.81	1.17	
1,447.0	6.50	183.20	1,445.7	-18.0	-8.1	-17.9	0.62	0.53	-2.98	
1,542.0	6.70	184.40	1,540.1	-28.9	-8.8	-28.8	0.26	0.21	1.26	
1,636.0	6.60	184.60	1,633.4	-39.7	-9.7	-39.7	0.11	-0.11	0.21	
1,730.0	6.40	186.10	1,726.8	-50.3	-10.7	-50.3	0.28	-0.21	1.60	
1,825.0	6.10	185.60	1,821.3	-60.6	-11.7	-60.5	0.32	-0.32	-0.53	
1,919.0	6.20	186.00	1,914.7	-70.6	-12.8	-70.6	0.12	0.11	0.43	
2,013.0	6.30	177.70	2,008.2	-80.8	-13.1	-80.8	0.97	0.11	-8.83	
2,108.0	6.30	175.70	2,102.6	-91.2	-12.5	-91.2	0.23	0.00	-2.11	
2,202.0	6.20	176.70	2,196.0	-101.5	-11.8	-101.4	0.16	-0.11	1.06	
2,296.0	5.90	176.40	2,289.5	-111.3	-11.2	-111.3	0.32	-0.32	-0.32	
2,391.0	5.50	176.80	2,384.1	-120.8	-10.6	-120.7	0.42	-0.42	0.42	
2,485.0	5.70	178.40	2,477.6	-129.9	-10.3	-129.9	0.27	0.21	1.70	
2,579.0	6.30	178.80	2,571.1	-139.7	-10.0	-139.7	0.64	0.64	0.43	
2,673.0	6.00	180.30	2,664.5	-149.8	-9.9	-149.8	0.36	-0.32	1.60	
2,767.0	5.70	182.50	2,758.1	-159.4	-10.2	-159.3	0.40	-0.32	2.34	
2,862.0	5.30	185.70	2,852.6	-168.5	-10.8	-168.4	0.53	-0.42	3.37	
2,956.0	4.90	178.50	2,946.2	-176.8	-11.1	-176.7	0.80	-0.43	-7.66	
3,050.0	4.60	170.60	3,039.9	-184.5	-10.4	-184.5	0.76	-0.32	-8.40	
3,144.0	4.50	172.90	3,133.6	-191.9	-9.3	-191.9	0.22	-0.11	2.45	
3,239.0	4.30	174.60	3,228.4	-199.2	-8.6	-199.1	0.25	-0.21	1.79	
3,333.0	3.50	181.30	3,322.1	-205.5	-8.3	-205.5	0.98	-0.85	7.13	
3,427.0	2.00	181.40	3,416.0	-210.0	-8.4	-210.0	1.60	-1.60	0.11	
3,521.0	1.00	150.40	3,510.0	-212.4	-8.0	-212.3	1.33	-1.06	-32.98	
3,616.0	0.90	128.60	3,605.0	-213.6	-7.0	-213.5	0.39	-0.11	-22.95	
3,710.0	1.40	136.80	3,699.0	-214.9	-5.7	-214.8	0.56	0.53	8.72	
3,804.0	1.40	149.80	3,792.9	-216.7	-4.3	-216.7	0.34	0.00	13.83	
3,899.0	1.00	148.00	3,887.9	-218.4	-3.3	-218.4	0.42	-0.42	-1.89	
3,993.0	0.80	155.90	3,981.9	-219.7	-2.6	-219.7	0.25	-0.21	8.40	
4,067.0	0.90	141.90	4,055.9	-220.6	-2.0	-220.6	0.31	0.14	-18.92	
4,132.0	0.50	156.40	4,120.9	-221.3	-1.6	-221.3	0.67	-0.62	22.31	
4,195.0	0.50	164.70	4,183.9	-221.8	-1.4	-221.8	0.11	0.00	13.17	
4,289.0	0.60	171.60	4,277.9	-222.7	-1.2	-222.7	0.13	0.11	7.34	
4,384.0	0.70	190.70	4,372.9	-223.8	-1.3	-223.8	0.25	0.11	20.11	
4,478.0	0.60	152.60	4,466.9	-224.8	-1.1	-224.8	0.46	-0.11	-40.53	
4,572.0	0.70	41.80	4,560.9	-224.8	-0.5	-224.8	1.14	0.11	-117.87	
4,666.0	1.10	28.30	4,654.9	-223.6	0.3	-223.5	0.48	0.43	-14.36	
4,760.0	0.60	10.60	4,748.8	-222.3	0.8	-222.3	0.59	-0.53	-18.83	
4,855.0	1.00	24.80	4,843.8	-221.0	1.2	-221.0	0.47	0.42	14.95	

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
4,949.0	0.90	18.80	4,937.8	-219.6	1.8	-219.6	0.15	-0.11	-6.38
5,043.0	1.20	18.00	5,031.8	-218.0	2.4	-218.0	0.32	0.32	-0.85
5,138.0	1.10	24.80	5,126.8	-216.2	3.1	-216.2	0.18	-0.11	7.16
5,232.0	1.00	18.80	5,220.8	-214.6	3.7	-214.6	0.16	-0.11	-6.38
5,327.0	0.80	21.50	5,315.8	-213.2	4.2	-213.2	0.22	-0.21	2.84
5,421.0	0.80	20.50	5,409.7	-212.0	4.7	-212.0	0.01	0.00	-1.06
5,515.0	0.80	10.30	5,503.7	-210.7	5.0	-210.7	0.15	0.00	-10.85
5,610.0	0.70	359.90	5,598.7	-209.5	5.1	-209.5	0.18	-0.11	-10.95
5,705.0	0.50	349.10	5,693.7	-208.5	5.1	-208.5	0.24	-0.21	-11.37
5,800.0	0.30	353.70	5,788.7	-207.8	5.0	-207.8	0.21	-0.21	4.84
5,895.0	0.20	5.70	5,883.7	-207.4	4.9	-207.4	0.12	-0.11	12.63
5,991.0	0.20	30.40	5,979.7	-207.1	5.0	-207.1	0.09	0.00	25.73
6,085.0	0.10	132.50	6,073.7	-207.0	5.2	-207.0	0.26	-0.11	108.62
6,180.0	0.40	184.10	6,168.7	-207.4	5.2	-207.4	0.37	0.32	54.32
6,275.0	0.50	167.20	6,263.7	-208.1	5.3	-208.2	0.17	0.11	-17.79
6,370.0	0.60	175.90	6,358.7	-209.0	5.4	-209.1	0.14	0.11	9.16
6,465.0	0.50	200.90	6,453.7	-209.9	5.3	-209.9	0.27	-0.11	26.32
6,560.0	0.50	195.10	6,548.7	-210.7	5.1	-210.7	0.05	0.00	-6.11
6,655.0	0.70	208.20	6,643.7	-211.6	4.7	-211.6	0.25	0.21	13.79
6,750.0	0.80	210.30	6,738.7	-212.7	4.1	-212.7	0.11	0.11	2.21
6,845.0	0.80	202.80	6,833.7	-213.9	3.5	-213.9	0.11	0.00	-7.89
6,940.0	0.70	198.50	6,928.7	-215.0	3.0	-215.1	0.12	-0.11	-4.53
7,035.0	0.70	203.50	7,023.7	-216.1	2.6	-216.1	0.06	0.00	5.26
7,130.0	0.60	195.30	7,118.7	-217.1	2.3	-217.1	0.14	-0.11	-8.63
7,225.0	0.70	198.10	7,213.7	-218.2	1.9	-218.2	0.11	0.11	2.95
7,320.0	0.80	184.80	7,308.6	-219.4	1.7	-219.4	0.21	0.11	-14.00
7,415.0	0.90	179.90	7,403.6	-220.8	1.7	-220.8	0.13	0.11	-5.16
7,510.0	0.90	186.90	7,498.6	-222.3	1.6	-222.3	0.12	0.00	7.37
7,604.0	1.00	184.20	7,592.6	-223.8	1.4	-223.8	0.12	0.11	-2.87
7,699.0	0.80	193.10	7,687.6	-225.3	1.2	-225.3	0.26	-0.21	9.37
7,794.0	0.40	276.30	7,782.6	-225.9	0.7	-225.9	0.90	-0.42	87.58
7,888.0	0.30	264.60	7,876.6	-225.9	0.2	-225.9	0.13	-0.11	-12.45
7,982.0	0.50	253.60	7,970.6	-226.0	-0.5	-226.0	0.23	0.21	-11.70
8,075.0	0.30	252.10	8,063.6	-226.2	-1.1	-226.2	0.22	-0.22	-1.61
8,170.0	0.50	235.80	8,158.6	-226.5	-1.7	-226.5	0.24	0.21	-17.16
8,264.0	0.70	260.00	8,252.6	-226.9	-2.6	-226.8	0.34	0.21	25.74
8,357.0	0.80	299.30	8,345.6	-226.6	-3.7	-226.6	0.55	0.11	42.26
8,452.0	0.80	326.00	8,440.6	-225.8	-4.7	-225.7	0.39	0.00	28.11
8,546.0	1.10	340.10	8,534.6	-224.4	-5.3	-224.3	0.40	0.32	15.00
8,640.0	1.30	338.70	8,628.5	-222.5	-6.0	-222.5	0.22	0.21	-1.49
8,734.0	1.40	326.00	8,722.5	-220.6	-7.1	-220.6	0.33	0.11	-13.51
8,829.0	1.60	306.30	8,817.5	-218.8	-8.8	-218.8	0.58	0.21	-20.74
8,922.0	1.20	306.10	8,910.4	-217.5	-10.6	-217.4	0.43	-0.43	-0.22

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
9,017.0	1.20	309.50	9,005.4	-216.3	-12.2	-216.2	0.07	0.00	3.58
9,110.0	1.00	298.80	9,098.4	-215.3	-13.6	-215.2	0.31	-0.22	-11.51
9,204.0	1.00	301.20	9,192.4	-214.5	-15.1	-214.4	0.04	0.00	2.55
9,298.0	1.00	294.00	9,286.4	-213.7	-16.5	-213.6	0.13	0.00	-7.66
9,392.0	0.50	251.60	9,380.4	-213.5	-17.7	-213.4	0.76	-0.53	-45.11
9,486.0	0.50	196.50	9,474.4	-214.0	-18.2	-213.9	0.49	0.00	-58.62
9,580.0	0.50	150.30	9,568.4	-214.8	-18.1	-214.7	0.42	0.00	-49.15
9,675.0	0.50	140.50	9,663.4	-215.4	-17.6	-215.3	0.09	0.00	-10.32
9,769.0	0.10	114.40	9,757.4	-215.8	-17.3	-215.7	0.44	-0.43	-27.77
9,864.0	0.30	222.10	9,852.4	-216.0	-17.4	-215.9	0.36	0.21	113.37
9,958.0	0.60	116.00	9,946.4	-216.4	-17.1	-216.3	0.79	0.32	-112.87
10,053.0	0.90	137.10	10,041.3	-217.2	-16.1	-217.1	0.42	0.32	22.21
10,148.0	0.80	91.70	10,136.3	-217.7	-15.0	-217.7	0.70	-0.11	-47.79
10,243.0	0.80	109.00	10,231.3	-218.0	-13.7	-217.9	0.25	0.00	18.21
10,338.0	0.70	124.10	10,326.3	-218.5	-12.6	-218.4	0.23	-0.11	15.89
10,433.0	0.60	148.90	10,421.3	-219.3	-11.8	-219.2	0.31	-0.11	26.11
10,528.0	0.50	140.00	10,516.3	-220.0	-11.3	-219.9	0.14	-0.11	-9.37
10,623.0	0.70	136.20	10,611.3	-220.7	-10.6	-220.7	0.21	0.21	-4.00
10,718.0	0.70	170.40	10,706.3	-221.7	-10.1	-221.7	0.43	0.00	36.00
10,813.0	1.00	185.10	10,801.3	-223.1	-10.1	-223.1	0.39	0.32	15.47
10,865.0	1.10	183.70	10,853.3	-224.1	-10.2	-224.0	0.20	0.19	-2.69
10,918.0	0.60	201.60	10,906.3	-224.9	-10.3	-224.8	1.06	-0.94	33.77
10,950.0	3.40	343.70	10,938.3	-224.1	-10.6	-224.0	12.16	8.75	444.06
10,982.0	8.10	348.30	10,970.1	-221.0	-11.4	-220.9	14.75	14.69	14.38
11,013.0	12.60	351.70	11,000.6	-215.5	-12.3	-215.4	14.64	14.52	10.97
11,045.0	15.50	353.40	11,031.6	-207.8	-13.3	-207.7	9.15	9.06	5.31
11,077.0	17.80	354.30	11,062.3	-198.7	-14.3	-198.6	7.23	7.19	2.81
11,108.0	19.70	354.80	11,091.6	-188.8	-15.2	-188.7	6.15	6.13	1.61
11,140.0	22.20	354.60	11,121.5	-177.4	-16.3	-177.3	7.82	7.81	-0.63
11,172.0	23.40	354.50	11,151.0	-165.0	-17.5	-164.9	3.75	3.75	-0.31
11,203.0	25.40	354.20	11,179.2	-152.3	-18.7	-152.2	6.46	6.45	-0.97
11,235.0	28.40	354.30	11,207.8	-137.9	-20.2	-137.8	9.38	9.38	0.31
11,266.0	31.70	357.10	11,234.6	-122.4	-21.3	-122.3	11.56	10.65	9.03
11,298.0	33.10	358.60	11,261.6	-105.3	-22.0	-105.1	5.04	4.38	4.69
11,329.0	34.80	359.80	11,287.3	-88.0	-22.2	-87.8	5.89	5.48	3.87
11,401.0	41.50	357.60	11,343.9	-43.5	-23.3	-43.4	9.49	9.31	-3.06
11,432.0	45.40	355.10	11,366.4	-22.3	-24.6	-22.1	13.75	12.58	-8.06
11,464.0	51.30	354.00	11,387.7	1.5	-26.9	1.7	18.62	18.44	-3.44
11,495.0	54.50	354.60	11,406.4	26.1	-29.4	26.3	10.44	10.32	1.94
11,527.0	57.50	355.00	11,424.3	52.6	-31.8	52.7	9.43	9.38	1.25
11,558.0	60.10	356.20	11,440.3	79.0	-33.8	79.2	9.02	8.39	3.87
CROSSED 330' HARD LINE @ 11559' MD / 11441' TVD									
11,558.9	60.16	356.25	11,440.8	79.8	-33.9	80.0	8.87	7.15	6.07
11,590.0	62.40	358.10	11,455.7	107.0	-35.2	107.2	8.87	7.19	5.93

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)
11,622.0	63.50	359.30	11,470.3	135.5	-35.8	135.7	4.79	3.44	3.75
11,653.0	64.70	359.50	11,483.8	163.4	-36.1	163.6	3.91	3.87	0.65
11,685.0	67.20	0.00	11,496.9	192.6	-36.3	192.8	7.94	7.81	1.56
11,716.0	69.70	0.80	11,508.2	221.4	-36.1	221.6	8.41	8.06	2.58
11,748.0	71.40	0.90	11,518.9	251.6	-35.6	251.8	5.32	5.31	0.31
11,779.0	72.60	0.80	11,528.5	281.1	-35.2	281.3	3.88	3.87	-0.32
11,811.0	76.20	0.60	11,537.1	311.9	-34.8	312.1	11.27	11.25	-0.63
11,843.0	79.20	0.20	11,543.9	343.2	-34.6	343.3	9.45	9.38	-1.25
11,874.0	81.00	0.40	11,549.2	373.7	-34.4	373.9	5.84	5.81	0.65
11,906.0	81.50	0.30	11,554.1	405.3	-34.2	405.5	1.59	1.56	-0.31
11,938.0	83.00	359.90	11,558.4	437.0	-34.2	437.2	4.85	4.69	-1.25
11,970.0	86.50	0.50	11,561.3	468.9	-34.1	469.1	11.10	10.94	1.88
12,001.0	89.80	1.10	11,562.3	499.9	-33.6	500.0	10.82	10.65	1.94
12,033.0	90.30	1.10	11,562.3	531.9	-33.0	532.0	1.56	1.56	0.00
12,065.0	90.50	0.80	11,562.1	563.8	-32.5	564.0	1.13	0.63	-0.94
12,097.0	90.10	0.80	11,561.9	595.8	-32.0	596.0	1.25	-1.25	0.00
12,191.0	91.30	0.10	11,560.8	689.8	-31.3	690.0	1.48	1.28	-0.74
12,287.0	90.10	1.00	11,559.6	785.8	-30.4	786.0	1.56	-1.25	0.94
12,382.0	85.90	359.30	11,562.9	880.7	-30.1	880.9	4.77	-4.42	-1.79
12,477.0	90.10	1.40	11,566.2	975.6	-29.5	975.8	4.94	4.42	2.21
12,572.0	87.40	359.30	11,568.3	1,070.6	-29.0	1,070.8	3.60	-2.84	-2.21
12,667.0	87.20	358.70	11,572.8	1,165.5	-30.6	1,165.6	0.67	-0.21	-0.63
12,761.0	89.70	357.80	11,575.3	1,259.4	-33.5	1,259.6	2.83	2.66	-0.96
12,856.0	91.10	359.00	11,574.7	1,354.4	-36.1	1,354.5	1.94	1.47	1.26
12,951.0	92.20	0.70	11,571.9	1,449.3	-36.4	1,449.5	2.13	1.16	1.79
13,045.0	91.00	0.70	11,569.3	1,543.3	-35.2	1,543.4	1.28	-1.28	0.00
13,139.0	88.60	2.10	11,569.6	1,637.2	-32.9	1,637.4	2.96	-2.55	1.49
13,233.0	86.90	1.00	11,573.3	1,731.1	-30.4	1,731.3	2.15	-1.81	-1.17
13,328.0	88.50	0.60	11,577.1	1,826.0	-29.1	1,826.2	1.74	1.68	-0.42
13,422.0	88.30	358.60	11,579.8	1,920.0	-29.7	1,920.1	2.14	-0.21	-2.13
13,516.0	90.90	0.10	11,580.4	2,014.0	-30.8	2,014.1	3.19	2.77	1.60
13,611.0	90.30	359.40	11,579.4	2,109.0	-31.2	2,109.1	0.97	-0.63	-0.74
13,698.0	91.20	0.30	11,578.3	2,196.0	-31.4	2,196.1	1.46	1.03	1.03
13,792.0	90.60	2.00	11,576.8	2,289.9	-29.5	2,290.0	1.92	-0.64	1.81
13,886.0	89.70	2.20	11,576.6	2,383.9	-26.1	2,384.0	0.98	-0.96	0.21
13,981.0	88.30	3.90	11,578.2	2,478.7	-21.1	2,478.8	2.32	-1.47	1.79
14,075.0	89.50	359.70	11,580.0	2,572.6	-18.1	2,572.7	4.65	1.28	-4.47
14,169.0	88.00	359.60	11,582.1	2,666.6	-18.7	2,666.6	1.60	-1.60	-0.11
14,263.0	90.00	0.30	11,583.7	2,760.6	-18.8	2,760.6	2.25	2.13	0.74
14,357.0	87.90	0.40	11,585.4	2,854.5	-18.2	2,854.6	2.24	-2.23	0.11
14,451.0	87.00	0.20	11,589.6	2,948.4	-17.7	2,948.5	0.98	-0.96	-0.21
14,545.0	86.20	0.20	11,595.2	3,042.3	-17.4	3,042.3	0.85	-0.85	0.00
14,639.0	86.20	359.90	11,601.4	3,136.1	-17.3	3,136.1	0.32	0.00	-0.32

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
14,734.0	87.30	359.30	11,606.8	3,230.9	-17.9	3,231.0	1.32	1.16	-0.63
14,827.0	88.50	359.70	11,610.2	3,323.8	-18.8	3,323.9	1.36	1.29	0.43
14,922.0	90.60	0.10	11,611.0	3,418.8	-18.9	3,418.9	2.25	2.21	0.42
15,016.0	88.60	358.90	11,611.6	3,512.8	-19.7	3,512.9	2.48	-2.13	-1.28
15,110.0	89.10	358.60	11,613.5	3,606.8	-21.8	3,606.9	0.62	0.53	-0.32
15,204.0	90.90	359.20	11,613.5	3,700.8	-23.6	3,700.8	2.02	1.91	0.64
15,298.0	91.30	356.40	11,611.7	3,794.7	-27.2	3,794.8	3.01	0.43	-2.98
15,392.0	88.60	357.70	11,611.8	3,888.5	-32.0	3,888.7	3.19	-2.87	1.38
15,486.0	89.00	0.30	11,613.7	3,982.5	-33.7	3,982.6	2.80	0.43	2.77
15,581.0	87.40	359.50	11,616.7	4,077.4	-33.8	4,077.6	1.88	-1.68	-0.84
15,675.0	87.40	359.60	11,621.0	4,171.3	-34.6	4,171.5	0.11	0.00	0.11
15,769.0	89.00	0.90	11,623.9	4,265.3	-34.2	4,265.4	2.19	1.70	1.38
15,863.0	90.10	0.90	11,624.7	4,359.3	-32.7	4,359.4	1.17	1.17	0.00
15,957.0	88.00	359.10	11,626.2	4,453.2	-32.7	4,453.4	2.94	-2.23	-1.91
16,051.0	89.40	359.80	11,628.4	4,547.2	-33.6	4,547.3	1.67	1.49	0.74
16,145.0	90.90	0.30	11,628.1	4,641.2	-33.5	4,641.3	1.68	1.60	0.53
16,240.0	89.90	0.20	11,627.5	4,736.2	-33.1	4,736.3	1.06	-1.05	-0.11
16,334.0	89.10	358.20	11,628.3	4,830.2	-34.4	4,830.3	2.29	-0.85	-2.13
16,428.0	90.80	357.90	11,628.4	4,924.1	-37.6	4,924.3	1.84	1.81	-0.32
16,523.0	90.70	359.90	11,627.1	5,019.1	-39.4	5,019.2	2.11	-0.11	2.11
16,617.0	89.60	0.30	11,626.9	5,113.1	-39.3	5,113.2	1.25	-1.17	0.43
16,711.0	89.60	2.40	11,627.5	5,207.1	-37.1	5,207.2	2.23	0.00	2.23
16,806.0	86.30	0.10	11,630.9	5,302.0	-35.0	5,302.1	4.23	-3.47	-2.42
16,899.0	88.90	0.00	11,634.8	5,394.9	-34.9	5,395.0	2.80	2.80	-0.11
16,994.0	89.20	359.80	11,636.4	5,489.9	-35.1	5,490.0	0.38	0.32	-0.21
17,088.0	89.30	359.70	11,637.6	5,583.9	-35.5	5,584.0	0.15	0.11	-0.11
17,182.0	87.60	359.10	11,640.2	5,677.8	-36.5	5,677.9	1.92	-1.81	-0.64
17,276.0	88.20	358.80	11,643.6	5,771.7	-38.2	5,771.9	0.71	0.64	-0.32
17,370.0	90.10	359.60	11,645.0	5,865.7	-39.5	5,865.8	2.19	2.02	0.85
17,463.0	89.20	357.30	11,645.6	5,958.7	-42.0	5,958.8	2.66	-0.97	-2.47
17,557.0	89.90	357.00	11,646.3	6,052.5	-46.7	6,052.7	0.81	0.74	-0.32
17,651.0	90.40	356.80	11,646.1	6,146.4	-51.8	6,146.6	0.57	0.53	-0.21
17,745.0	89.60	358.40	11,646.1	6,240.3	-55.7	6,240.5	1.90	-0.85	1.70
17,840.0	89.10	358.70	11,647.2	6,335.3	-58.1	6,335.5	0.61	-0.53	0.32
17,934.0	88.70	2.60	11,649.0	6,429.2	-57.0	6,429.5	4.17	-0.43	4.15
18,028.0	89.90	2.50	11,650.1	6,523.1	-52.9	6,523.3	1.28	1.28	-0.11
18,123.0	90.60	0.50	11,649.7	6,618.1	-50.4	6,618.3	2.23	0.74	-2.11
18,217.0	92.30	1.50	11,647.3	6,712.0	-48.7	6,712.2	2.10	1.81	1.06
18,312.0	93.20	1.10	11,642.8	6,806.9	-46.6	6,807.1	1.04	0.95	-0.42
18,383.0	94.20	359.70	11,638.2	6,877.8	-46.1	6,877.9	2.42	1.41	-1.97
TD @ 18429' MD / 11635' TVD									
18,429.0	94.20	359.70	11,634.8	6,923.6	-46.3	6,923.8	0.00	0.00	0.00

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Stampede Federal WC COM 34 #1H
Project:	Eddy County, New Mexico - NAD 27	TVD Reference:	Well @ 3163.0usft (H&P 486)
Site:	Sec 27, T26S, R31E	MD Reference:	Well @ 3163.0usft (H&P 486)
Well:	Stampede Federal WC COM 34 #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
137.0	137.0	0.2	-0.9	First MWD Survey @ 137' MD / 137' TVD
11,558.9	11,440.8	79.8	-33.9	CROSSED 330' HARD LINE @ 11559' MD / 11441' TVD
18,429.0	11,634.8	6,923.6	-46.3	TD @ 18429' MD / 11635' TVD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------