

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 13 2015

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3001542920

OXY

Eddy County, NM (NAD 27 NME)

Cypress 34 Fed 11H

Cypress 34 Fed 11H

Wellbore #1

Design: OH

Standard Survey Report

17 February, 2015

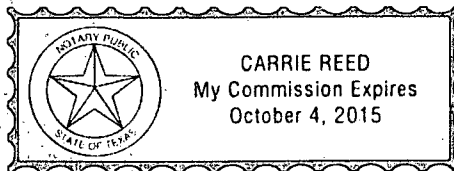
This survey is correct to the best of my knowledge and is supported by actual field data.

L. Wharton

Notarized this date 4th of March, 2015.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling

www.scientificdrilling.com

Survey Report

Company:	OXY	Local Co-ordinate Reference:	Well Cypress 34 Fed 11H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB @ 3051.10usft
Site:	Cypress 34 Fed 11H	MD Reference:	KB @ 3051.10usft
Well:	Cypress 34 Fed 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project:	Eddy County, NM (NAD 27 NME), 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:	Cypress 34 Fed 11H		
Site Position:		Northing:	461,422.60 usft
From:	Map	Easting:	610,997.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 5.005 N
		Longitude:	103° 58' 27.208 W
		Grid Convergence:	0.19 °

Well:	Cypress 34 Fed 11H		
Well Position	+N/-S	0.00 usft	Northing: 461,422.60 usft
	+E/-W	0.00 usft	Easting: 610,997.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 16' 5.005 N
		Longitude:	103° 58' 27.208 W
		Ground Level:	3,027.10 usft

Wellbore:	Wellbore #1		
Magnetics:	Model Name	Sample Date	Declination
			(°)
	HDGM	1/15/2015	7.42
			Dip Angle (°)
			60.15
			Field Strength (nT)
			48,363

Design:	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (bearing)
			179.33

Survey Program	Date: 2/17/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
411.00	13,655.00	SDI MWD (Wellbore #1)	SDI MWD
			Description
			SDI MWD - Standard ver 1.0.1

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
411.00	0.18	88.71	411.00	0.01	0.65	-0.01	0.04	0.04	0.00	
503.00	0.56	36.51	503.00	0.38	1.06	-0.37	0.51	0.41	-56.74	
595.00	0.54	38.04	594.99	1.08	1.59	-1.06	0.03	-0.02	1.66	
686.00	0.43	76.69	685.99	1.50	2.19	-1.47	0.37	-0.12	42.47	
777.00	0.29	74.30	776.99	1.64	2.74	-1.61	0.15	-0.15	-2.63	
869.00	0.07	349.45	868.99	1.76	2.96	-1.72	0.32	-0.24	-92.23	
960.00	0.15	13.02	959.99	1.93	2.97	-1.89	0.10	0.09	25.90	
1,050.00	0.43	297.62	1,049.99	2.20	2.70	-2.17	0.46	0.31	-83.78	
1,145.00	0.46	282.69	1,144.98	2.45	2.01	-2.42	0.13	0.03	-15.72	

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Well:	Cypress 34 Fed 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,239.00	0.39	247.02	1,238.98	2.41	1.35	-2.39	0.29	-0.07	-37.95	
1,334.00	0.45	240.61	1,333.98	2.10	0.73	-2.09	0.08	0.06	-6.75	
1,428.00	0.41	276.81	1,427.98	1.96	0.07	-1.96	0.29	-0.04	38.51	
1,522.00	0.14	309.19	1,521.98	2.07	-0.35	-2.07	0.32	-0.29	34.45	
1,617.00	0.24	264.90	1,616.97	2.12	-0.64	-2.13	0.18	0.11	-46.62	
1,711.00	0.24	286.07	1,710.97	2.16	-1.02	-2.17	0.09	0.00	22.52	
1,805.00	0.15	300.94	1,804.97	2.28	-1.32	-2.29	0.11	-0.10	15.82	
1,900.00	0.41	309.45	1,899.97	2.56	-1.69	-2.58	0.28	0.27	8.96	
1,994.00	0.21	269.98	1,993.97	2.77	-2.12	-2.80	0.30	-0.21	-41.99	
2,089.00	0.27	33.30	2,088.97	2.96	-2.17	-2.98	0.45	0.06	129.81	
2,183.00	0.34	43.32	2,182.97	3.35	-1.86	-3.37	0.09	0.07	10.66	
2,277.00	0.75	64.35	2,276.96	3.82	-1.11	-3.83	0.48	0.44	22.37	
2,372.00	0.83	85.04	2,371.96	4.15	0.13	-4.14	0.31	0.08	21.78	
2,466.00	1.17	97.95	2,465.94	4.07	1.76	-4.05	0.43	0.36	13.73	
2,560.00	1.09	81.60	2,559.92	4.07	3.60	-4.03	0.35	-0.09	-17.39	
2,654.00	1.39	104.93	2,653.90	3.91	5.58	-3.84	0.62	0.32	24.82	
2,749.00	1.55	115.45	2,748.87	3.06	7.86	-2.96	0.33	0.17	11.07	
2,843.00	1.21	114.60	2,842.84	2.10	9.91	-1.98	0.36	-0.36	-0.90	
2,937.00	0.71	131.81	2,936.83	1.30	11.24	-1.16	0.61	-0.53	18.31	
3,026.00	0.84	149.12	3,025.82	0.37	11.99	-0.23	0.30	0.15	19.45	
3,120.00	0.93	6.56	3,119.82	0.54	12.43	-0.39	1.78	0.10	-151.66	
3,215.00	1.09	357.83	3,214.80	2.20	12.48	-2.06	0.23	0.17	-9.19	
3,309.00	1.21	4.22	3,308.78	4.09	12.52	-3.94	0.19	0.13	6.80	
3,403.00	1.35	356.28	3,402.76	6.18	12.52	-6.03	0.24	0.15	-8.45	
3,498.00	1.31	357.50	3,497.74	8.38	12.40	-8.24	0.05	-0.04	1.28	
3,592.00	2.38	1.89	3,591.69	11.41	12.42	-11.26	1.15	1.14	4.67	
3,686.00	2.47	2.14	3,685.60	15.38	12.56	-15.23	0.10	0.10	0.27	
3,781.00	3.14	357.28	3,780.49	20.03	12.51	-19.88	0.75	0.71	-5.12	
3,875.00	4.79	354.03	3,874.26	26.50	11.98	-26.36	1.77	1.76	-3.46	
3,969.00	6.30	353.22	3,967.82	35.53	10.97	-35.40	1.61	1.61	-0.86	
4,064.00	6.16	351.58	4,062.25	45.75	9.61	-45.63	0.24	-0.15	-1.73	
4,158.00	5.88	351.33	4,155.74	55.50	8.14	-55.40	0.30	-0.30	-0.27	
4,253.00	6.13	0.55	4,250.22	65.38	7.46	-65.29	1.05	0.26	9.71	
4,347.00	6.01	1.69	4,343.69	75.32	7.65	-75.22	0.18	-0.13	1.21	
4,441.00	5.83	1.67	4,437.19	85.01	7.93	-84.91	0.19	-0.19	-0.02	
4,536.00	5.84	352.85	4,531.70	94.63	7.47	-94.53	0.94	0.01	-9.28	
4,630.00	5.41	351.44	4,625.25	103.75	6.22	-103.67	0.48	-0.46	-1.50	
4,725.00	5.29	350.55	4,719.83	112.50	4.83	-112.44	0.15	-0.13	-0.94	
4,819.00	3.83	352.09	4,813.53	119.89	3.69	-119.83	1.56	-1.55	1.64	
4,913.00	2.41	345.81	4,907.39	124.91	2.77	-124.87	1.55	-1.51	-6.68	
5,007.00	0.30	334.62	5,001.36	127.05	2.18	-127.02	2.25	-2.24	-11.90	
5,101.00	0.08	309.52	5,095.36	127.31	2.03	-127.28	0.24	-0.23	-26.70	
5,196.00	0.09	251.04	5,190.36	127.33	1.90	-127.30	0.09	0.01	-61.56	
5,290.00	0.15	219.40	5,284.36	127.21	1.76	-127.18	0.09	0.06	-33.66	

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Well:	Cypress 34 Fed 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,384.00	0.30	130.78	5,378.36	126.96	1.86	-126.93	0.35	0.16	-94.28
5,479.00	0.24	130.12	5,473.36	126.67	2.21	-126.63	0.06	-0.06	-0.69
5,573.00	0.09	138.03	5,567.36	126.48	2.41	-126.45	0.16	-0.16	8.41
5,667.00	0.08	32.91	5,661.36	126.48	2.49	-126.45	0.14	-0.01	-111.83
5,761.00	0.07	153.96	5,755.36	126.49	2.55	-126.45	0.14	-0.01	128.78
5,856.00	0.34	216.72	5,850.36	126.21	2.41	-126.17	0.33	0.28	66.06
5,950.00	0.17	261.84	5,944.35	125.97	2.10	-125.93	0.27	-0.18	48.00
6,044.00	0.18	221.11	6,038.35	125.84	1.87	-125.80	0.13	0.01	-43.33
6,139.00	0.52	181.76	6,133.35	125.29	1.76	-125.26	0.42	0.36	-41.42
6,233.00	0.31	183.00	6,227.35	124.61	1.73	-124.58	0.22	-0.22	1.32
6,327.00	0.74	141.14	6,321.35	123.89	2.10	-123.85	0.58	0.46	-44.53
6,421.00	0.45	138.32	6,415.34	123.14	2.72	-123.10	0.31	-0.31	-3.00
6,516.00	0.47	132.77	6,510.34	122.59	3.26	-122.55	0.05	0.02	-5.84
6,610.00	0.67	114.44	6,604.33	122.10	4.04	-122.05	0.29	0.21	-19.50
6,705.00	0.69	136.34	6,699.33	121.46	4.94	-121.39	0.27	0.02	23.05
6,799.00	0.85	117.30	6,793.32	120.73	5.95	-120.65	0.32	0.17	-20.26
6,893.00	0.41	110.34	6,887.31	120.29	6.89	-120.21	0.47	-0.47	-7.40
6,987.00	0.35	341.54	6,981.31	120.45	7.11	-120.36	0.73	-0.06	-137.02
7,082.00	1.35	312.37	7,076.30	121.48	6.19	-121.40	1.11	1.05	-30.71
7,176.00	2.12	295.91	7,170.26	122.99	3.81	-122.93	0.97	0.82	-17.51
7,271.00	1.51	266.15	7,265.21	123.67	0.98	-123.65	1.16	-0.64	-31.33
7,365.00	1.91	259.87	7,359.17	123.31	-1.80	-123.32	0.47	0.43	-6.68
7,459.00	1.89	250.15	7,453.12	122.51	-4.80	-122.56	0.34	-0.02	-10.34
7,553.00	0.97	228.54	7,547.09	121.46	-6.85	-121.53	1.12	-0.98	-22.99
7,647.00	0.20	139.48	7,641.08	120.80	-7.34	-120.88	1.05	-0.82	-94.74
7,742.00	1.47	354.65	7,736.07	121.89	-7.35	-121.97	1.72	1.34	-152.45
7,836.00	1.69	354.60	7,830.04	124.47	-7.59	-124.55	0.23	0.23	-0.05
7,930.00	1.96	349.47	7,923.99	127.43	-8.01	-127.52	0.34	0.29	-5.46
8,024.00	1.04	352.55	8,017.96	129.86	-8.42	-129.95	0.98	-0.98	3.28
8,119.00	0.66	310.92	8,112.95	131.07	-8.94	-131.17	0.74	-0.40	-43.82
8,195.00	0.83	288.40	8,188.94	131.53	-9.80	-131.64	0.44	0.22	-29.63
8,205.00	0.79	266.33	8,198.94	131.55	-9.93	-131.66	3.13	-0.40	-220.70
8,300.00	7.21	191.71	8,293.68	125.66	-11.80	-125.79	7.41	6.76	-78.55
8,394.00	17.50	184.33	8,385.38	105.74	-14.07	-105.90	11.05	10.95	-7.85
8,488.00	27.35	182.83	8,472.17	69.99	-16.21	-70.18	10.50	10.48	-1.60
8,583.00	35.96	181.87	8,552.96	20.22	-18.20	-20.44	9.08	9.06	-1.01
8,677.00	44.93	181.16	8,624.42	-40.67	-19.78	40.44	9.55	9.54	-0.76
8,709.00	47.60	180.63	8,646.54	-63.79	-20.13	63.55	8.43	8.34	-1.66
8,740.00	49.79	180.66	8,667.00	-87.07	-20.40	86.83	7.06	7.06	0.10
8,771.00	50.03	180.29	8,686.97	-110.79	-20.59	110.54	1.20	0.77	-1.19
8,803.00	49.95	180.37	8,707.54	-135.30	-20.73	135.04	0.31	-0.25	0.25
8,834.00	49.62	181.07	8,727.56	-158.97	-21.03	158.71	2.03	-1.06	2.26
8,861.30	51.77	179.65	8,744.85	-180.09	-21.16	179.83	8.84	7.87	-5.21

Survey Report

Company:	OXY	Local Co-ordinate Reference:	Well Cypress 34 Fed 11H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB @ 3051.10usft
Site:	Cypress 34 Fed 11H	MD Reference:	KB @ 3051.10usft
Well:	Cypress 34 Fed 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
HL Entry Point									
8,866.00	52.14	179.41	8,747.75	-183.79	-21.13	183.53	8.84	7.91	-5.03
8,894.56	54.21	178.56	8,764.87	-206.65	-20.72	206.39	7.64	7.26	-2.97
C34F 11H PP									
8,897.00	54.39	178.49	8,766.29	-208.63	-20.67	208.37	7.64	7.27	-2.89
8,928.00	56.19	177.03	8,783.94	-234.09	-19.67	233.84	6.98	5.81	-4.71
8,960.00	59.53	177.47	8,800.96	-261.15	-18.37	260.92	10.50	10.44	1.38
8,991.00	63.66	177.82	8,815.70	-288.39	-17.25	288.17	13.36	13.32	1.13
9,023.00	67.88	178.97	8,828.83	-317.55	-16.44	317.34	13.59	13.19	3.59
9,054.00	72.46	179.67	8,839.35	-346.70	-16.10	346.49	14.93	14.77	2.26
9,086.00	76.41	179.93	8,847.93	-377.52	-15.99	377.31	12.37	12.34	0.81
9,117.00	78.88	179.76	8,854.57	-407.80	-15.91	407.59	7.99	7.97	-0.55
9,149.00	81.07	178.97	8,860.14	-439.31	-15.56	439.10	7.26	6.84	-2.47
9,180.00	83.54	178.09	8,864.29	-470.02	-14.77	469.81	8.45	7.97	-2.84
9,211.00	86.79	178.44	8,866.90	-500.89	-13.84	500.69	10.54	10.48	1.13
9,243.00	89.52	178.53	8,867.93	-532.86	-12.99	532.67	8.54	8.53	0.28
9,337.00	88.46	178.26	8,869.59	-626.81	-10.36	626.64	1.16	-1.13	-0.29
9,431.00	88.55	177.47	8,872.04	-720.71	-6.86	720.58	0.85	0.10	-0.84
9,526.00	89.87	179.32	8,873.35	-815.66	-4.20	815.55	2.39	1.39	1.95
9,620.00	89.87	179.05	8,873.56	-909.65	-2.86	909.55	0.29	0.00	-0.29
9,714.00	89.43	179.85	8,874.14	-1,003.64	-1.96	1,003.55	0.97	-0.47	0.85
9,808.00	89.08	180.29	8,875.36	-1,097.63	-2.07	1,097.53	0.60	-0.37	0.47
9,903.00	90.48	179.76	8,875.72	-1,192.63	-2.11	1,192.52	1.58	1.47	-0.56
9,997.00	89.87	178.53	8,875.44	-1,286.61	-0.71	1,286.52	1.46	-0.65	-1.31
10,091.00	91.54	177.82	8,874.28	-1,380.55	2.28	1,380.49	1.93	1.78	-0.76
10,185.00	91.54	177.91	8,871.75	-1,474.46	5.78	1,474.42	0.10	0.00	0.10
10,279.00	91.63	178.79	8,869.15	-1,568.38	8.49	1,568.37	0.94	0.10	0.94
10,374.00	91.10	177.21	8,866.89	-1,663.29	11.80	1,663.32	1.75	-0.56	-1.66
10,468.00	91.36	179.76	8,864.87	-1,757.23	14.29	1,757.28	2.73	0.28	2.71
10,562.00	90.31	180.20	8,863.50	-1,851.22	14.32	1,851.26	1.21	-1.12	0.47
10,657.00	89.87	178.35	8,863.35	-1,946.21	15.52	1,946.25	2.00	-0.46	-1.95
10,751.00	89.52	177.82	8,863.85	-2,040.15	18.66	2,040.23	0.68	-0.37	-0.56
10,845.00	88.29	178.26	8,865.65	-2,134.08	21.88	2,134.19	1.39	-1.31	0.47
10,940.00	87.85	178.35	8,868.85	-2,228.98	24.69	2,229.12	0.47	-0.46	0.09
11,034.00	88.79	178.59	8,871.60	-2,322.91	27.19	2,323.07	1.03	1.00	0.26
11,128.00	89.08	180.02	8,873.35	-2,416.88	28.33	2,417.05	1.55	0.31	1.52
11,223.00	88.46	178.62	8,875.39	-2,511.85	29.46	2,512.02	1.61	-0.65	-1.47
11,317.00	88.29	177.56	8,878.06	-2,605.76	32.59	2,605.96	1.14	-0.18	-1.13
11,411.00	88.20	178.88	8,880.94	-2,699.67	35.51	2,699.90	1.41	-0.10	1.40
11,505.00	89.87	181.25	8,882.52	-2,793.64	35.40	2,793.87	3.08	1.78	2.52
11,600.00	89.87	180.81	8,882.73	-2,888.63	33.70	2,888.82	0.46	0.00	-0.46
11,694.00	89.43	182.13	8,883.31	-2,982.59	31.28	2,982.75	1.48	-0.47	1.40
11,788.00	90.22	180.90	8,883.60	-3,076.56	28.80	3,076.68	1.56	0.84	-1.31
11,883.00	91.10	178.70	8,882.50	-3,171.54	29.13	3,171.67	2.49	0.93	-2.32

Survey Report

Company:	OXY	Local Co-ordinate Reference:	Well: Cypress 34 Fed 11H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB @ 3051.10usft
Site:	Cypress 34 Fed 11H	MD Reference:	KB @ 3051.10usft
Well:	Cypress 34 Fed 11H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,977.00	90.92	178.79	8,880.84	-3,265.51	31.19	3,265.65	0.21	-0.19	0.10
12,071.00	90.22	177.56	8,879.91	-3,359.45	34.18	3,359.62	1.51	-0.74	-1.31
12,165.00	89.60	177.47	8,880.06	-3,453.36	38.26	3,453.57	0.67	-0.66	-0.10
12,260.00	89.39	174.42	8,880.89	-3,548.11	44.98	3,548.39	3.22	-0.22	-3.21
12,354.00	88.46	175.36	8,882.66	-3,641.72	53.35	3,642.09	1.41	-0.99	1.00
12,448.00	88.81	178.79	8,884.90	-3,735.55	58.14	3,735.98	3.67	0.37	3.65
12,543.00	90.40	182.22	8,885.55	-3,830.53	57.30	3,830.94	3.98	1.67	3.61
12,637.00	89.87	181.52	8,885.33	-3,924.48	54.24	3,924.85	0.93	-0.56	-0.74
12,731.00	90.04	182.04	8,885.41	-4,018.43	51.32	4,018.76	0.58	0.18	0.55
12,826.00	90.40	183.19	8,885.04	-4,113.33	46.98	4,113.60	1.27	0.38	1.21
12,920.00	91.63	180.99	8,883.38	-4,207.25	43.55	4,207.47	2.68	1.31	-2.34
13,014.00	92.07	179.67	8,880.34	-4,301.19	43.01	4,301.40	1.48	0.47	-1.40
13,108.00	90.57	181.16	8,878.18	-4,395.16	42.33	4,395.36	2.25	-1.60	1.59
13,203.00	90.13	181.87	8,877.60	-4,490.13	39.82	4,490.28	0.88	-0.46	0.75
13,297.00	90.13	181.87	8,877.38	-4,584.08	36.75	4,584.19	0.00	0.00	0.00
13,391.00	90.13	182.83	8,877.17	-4,677.99	32.90	4,678.06	1.02	0.00	1.02
13,486.00	89.78	180.20	8,877.24	-4,772.95	30.39	4,772.98	2.79	-0.37	-2.77
13,514.57	89.78	180.20	8,877.35	-4,801.52	30.29	4,801.55	0.00	0.00	0.00
C34F 11H LTP									
13,534.65	89.78	180.20	8,877.43	-4,821.60	30.22	4,821.62	0.00	0.00	0.00
HL Exit Point									
13,580.00	89.78	180.20	8,877.60	-4,866.95	30.06	4,866.97	0.00	0.00	0.00
13,594.00	89.80	180.09	8,877.66	-4,880.95	30.02	4,880.97	0.80	0.14	-0.79
MWD Survey									
13,655.00	89.80	180.09	8,877.87	-4,941.95	29.93	4,941.96	0.00	0.00	0.00
Projection to Bit/TD - C34F BHL									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,861.30	8,744.85	-180.09	-21.16	HL Entry Point	
13,534.65	8,877.43	-4,821.60	30.22	HL Exit Point	
13,594.00	8,877.66	-4,880.95	30.02	MWD Survey	
13,655.00	8,877.87	-4,941.95	29.93	Projection to Bit/TD	

Checked By: _____ Approved By: _____ Date: _____



KB @ 3051.10usft
Gr @ 3027.10

Cypress 34 Fed 11H
Eddy County, NM (NAD 27 NME)
Northing: 461422.60
Easting: 610997.10
Plan #3

WELL DETAILS Cypress 34 Fed 11H

Ground Level: 3027.10

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	461422.60	610997.10	32° 16' 5.005 N	103° 58' 27.208 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	
3900.00	6.00	0.00	3899.45	15.69	0.00	2.00	0.00	-15.69	
4740.00	6.00	0.00	4734.85	103.50	0.00	0.00	0.00	-103.49	
5040.00	0.00	0.00	5034.30	119.19	0.00	2.00	180.00	-119.18	
8302.74	0.00	0.00	8297.04	119.19	0.00	0.00	0.00	-119.18	
9201.22	89.85	179.34	8870.00	-452.21	6.57	10.00	179.34	452.25	
13720.91	89.85	179.34	8882.00	-4971.59	58.50	0.00	0.00	4971.93 C34F BHL	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
C34F 11H PP	8800.00	-180.00	2.10	461242.60	610999.20
C34F 11H LTP	8881.50	-4801.60	58.50	456621.00	611053.60
C34F BHL	8882.00	-4971.59	58.50	456451.01	611055.60

SITE DETAILS:

Cypress 34 Fed 11H
Site Centre Northing: 461422.60
Easting: 610997.10

Positional Uncertainty: 0.00
Convergence: 0.19
Local North: Grid

PROJECT DETAILS:

Eddy County, NM (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.19°
Magnetic North: 7.22°

Magnetic Field
Strength: 48362.7snT
Dip Angle: 65.15°
Date: 1/15/2015
Model: HDGM

To convert Magnetic North to Grid, Add 7.22°
To convert True North to Grid, Subtract 0.19°

