

30-015-40962



Yates Petroleum

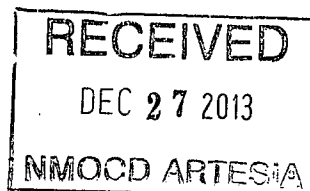
Eddy, NM (NAD-83)
Checker BIC Federal Com
#4H

OH

Design: OH

Standard Survey Report

30 September, 2013





Survey Report



Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #4H
Project:	Eddy, NM (NAD-83)	TVD Reference:	WELL @ 3598.5usft (Nomac #22 - 21.5' KB)
Site:	Checker BIC Federal Com	MD Reference:	WELL @ 3598.5usft (Nomac #22 - 21.5' KB)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Project:	Eddy, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Checker BIC Federal Com		
Site Position:	Northing:	611,578.46 usft	Latitude: 32° 40' 49.463 N
From: Map	Easting:	684,858.87 usft	Longitude: 103° 52' 0.724 W
Position Uncertainty:	2.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.25 °

Well:	#4H		
Well Position	+N/-S	0.0 usft	Northing: 611,578.46 usft
	+E/-W	0.0 usft	Easting: 684,858.87 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Ground Level:	3,577.0 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	8/14/2013	(°) 7.49
			Dip Angle (°) 60.50
			Field Strength (nT) 48,641

Design:	OH		
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 (°) 265.81

Survey Program	Date 9/30/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	800.0	Survey #1 - Gyro1 (OH)	CB-GYRO-MS
960.0	13,401.0	Survey #2 - MWD1 (OH)	MWD
13,457.4	13,457.4	Survey #3 - PTB (OH)	BLIND
			Description
			Camera based gyro multishot
			MWD - Standard
			Blind drilling, where no tool is applied

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	0.41	200.46	100.0	-0.3	-0.1	0.1	0.41	0.41	0.00
200.0	0.42	177.77	200.0	-1.0	-0.2	0.3	0.16	0.01	-22.69
300.0	0.37	162.03	300.0	-1.7	-0.1	0.2	0.12	-0.05	-15.74
400.0	0.38	146.19	400.0	-2.3	0.2	0.0	0.10	0.01	-15.84
500.0	0.36	135.58	500.0	-2.8	0.6	-0.4	0.07	-0.02	-10.61
600.0	0.35	102.04	600.0	-3.1	1.1	-0.9	0.21	-0.01	-33.54
700.0	0.35	78.63	700.0	-3.1	1.7	-1.5	0.14	0.00	-23.41
800.0	0.44	69.25	800.0	-2.9	2.3	-2.1	0.11	0.09	-9.38



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Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

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)	
960.0	0.30	139.00	960.0	-3.0	3.2	-3.0	0.27	-0.09	43.59	
1,148.0	0.50	104.90	1,148.0	-3.6	4.3	-4.0	0.16	0.11	-18.14	
1,335.0	1.30	106.40	1,335.0	-4.4	7.1	-6.8	0.43	0.43	0.80	
1,521.0	1.80	114.10	1,520.9	-6.2	11.8	-11.3	0.29	0.27	4.14	
1,614.0	2.20	113.80	1,613.8	-7.5	14.8	-14.2	0.43	0.43	-0.32	
1,708.0	1.10	43.00	1,707.8	-7.6	17.1	-16.5	2.25	-1.17	-75.32	
1,801.0	1.50	22.00	1,800.8	-5.8	18.1	-17.6	0.66	0.43	-22.58	
1,896.0	1.10	37.70	1,895.7	-3.9	19.1	-18.8	0.56	-0.42	16.53	
1,989.0	1.10	40.00	1,988.7	-2.5	20.3	-20.0	0.05	0.00	2.47	
2,082.0	1.30	43.10	2,081.7	-1.1	21.6	-21.4	0.23	0.22	3.33	
2,176.0	1.60	45.20	2,175.7	0.7	23.2	-23.2	0.32	0.32	2.23	
2,269.0	1.00	320.60	2,268.7	2.2	23.6	-23.7	1.94	-0.65	-90.97	
2,362.0	1.50	308.90	2,361.6	3.6	22.2	-22.4	0.60	0.54	-12.58	
2,455.0	0.30	92.70	2,454.6	4.3	21.5	-21.7	1.88	-1.29	154.62	
2,549.0	0.70	92.00	2,548.6	4.3	22.3	-22.5	0.43	0.43	-0.74	
2,642.0	0.50	93.90	2,641.6	4.3	23.2	-23.5	0.22	-0.22	2.04	
2,736.0	0.70	106.90	2,735.6	4.1	24.2	-24.4	0.26	0.21	13.83	
2,830.0	0.60	100.40	2,829.6	3.8	25.2	-25.5	0.13	-0.11	-6.91	
2,923.0	0.70	99.30	2,922.6	3.6	26.3	-26.5	0.11	0.11	-1.18	
3,110.0	0.70	98.00	3,109.6	3.3	28.5	-28.7	0.01	0.00	-0.70	
3,297.0	1.10	105.60	3,296.6	2.6	31.4	-31.5	0.22	0.21	4.06	
3,485.0	0.80	91.20	3,484.5	2.1	34.4	-34.5	0.20	-0.16	-7.66	
3,672.0	1.00	105.40	3,671.5	1.7	37.3	-37.3	0.16	0.11	7.59	
3,859.0	0.90	102.70	3,858.5	0.9	40.3	-40.3	0.06	-0.05	-1.44	
4,046.0	0.60	112.80	4,045.5	0.2	42.7	-42.6	0.17	-0.16	5.40	
4,233.0	0.80	109.30	4,232.5	-0.6	44.8	-44.6	0.11	0.11	-1.87	
4,419.0	0.60	81.80	4,418.4	-0.9	47.0	-46.8	0.21	-0.11	-14.78	
4,472.0	0.60	67.50	4,471.4	-0.7	47.5	-47.3	0.28	0.00	-26.98	
4,624.0	1.10	72.60	4,623.4	0.0	49.7	-49.5	0.33	0.33	3.36	
4,811.0	1.10	63.70	4,810.4	1.3	53.0	-52.9	0.09	0.00	-4.76	
4,998.0	0.50	10.10	4,997.4	2.9	54.7	-54.8	0.48	-0.32	-28.66	
5,185.0	0.50	283.00	5,184.4	3.9	54.1	-54.2	0.37	0.00	-46.58	
5,372.0	0.90	303.60	5,371.4	4.9	52.1	-52.3	0.25	0.21	11.02	
5,558.0	0.90	300.80	5,557.3	6.5	49.6	-49.9	0.02	0.00	-1.51	
5,745.0	0.50	301.80	5,744.3	7.6	47.6	-48.1	0.21	-0.21	0.53	
5,932.0	0.70	309.80	5,931.3	8.8	46.1	-46.6	0.12	0.11	4.28	
6,119.0	0.70	270.60	6,118.3	9.6	44.0	-44.6	0.25	0.00	-20.96	
6,307.0	0.90	240.20	6,306.3	8.8	41.6	-42.1	0.25	0.11	-16.17	
6,494.0	0.70	256.00	6,493.3	7.8	39.2	-39.7	0.16	-0.11	8.45	
6,681.0	0.40	277.80	6,680.3	7.6	37.5	-37.9	0.19	-0.16	11.66	
6,868.0	0.90	295.50	6,867.2	8.4	35.5	-36.0	0.29	0.27	9.47	
7,055.0	1.20	311.90	7,054.2	10.3	32.7	-33.4	0.23	0.16	8.77	
7,241.0	1.20	304.30	7,240.2	12.7	29.7	-30.5	0.09	0.00	-4.09	



Survey Report



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Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey/Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

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)
7,428.0	1.40	300.80	7,427.1	15.0	26.1	-27.1	0.12	0.11	-1.87
7,614.0	1.10	328.00	7,613.1	17.6	23.2	-24.4	0.35	-0.16	14.62
7,802.0	1.40	321.70	7,801.0	21.0	20.8	-22.3	0.18	0.16	-3.35
7,988.0	1.20	321.50	7,987.0	24.3	18.2	-19.9	0.11	-0.11	-0.11
8,175.0	1.20	291.00	8,173.9	26.5	15.1	-17.0	0.34	0.00	-16.31
8,363.0	0.40	296.40	8,361.9	27.5	12.7	-14.7	0.43	-0.43	2.87
8,456.0	0.40	307.50	8,454.9	27.9	12.2	-14.2	0.08	0.00	11.94
8,476.0	0.40	233.50	8,474.9	27.9	12.0	-14.0	2.41	0.00	-370.00
8,507.0	0.70	216.90	8,505.9	27.6	11.8	-13.8	1.09	0.97	-53.55
KOP - 8507.0' MD, 8505.9' TVD, 0.70° INC, 13.8° VS									
8,538.0	2.50	240.30	8,536.9	27.2	11.1	-13.1	6.06	5.81	75.48
8,569.0	5.80	245.20	8,567.8	26.2	9.1	-11.0	10.70	10.65	15.81
8,600.0	9.50	247.40	8,598.5	24.5	5.3	-7.1	11.97	11.94	7.10
8,630.7	13.46	249.58	8,628.6	22.3	-0.3	-1.3	12.98	12.90	7.12
Cross into 330' Lease - 8630.7' MD, 8628.6' TVD, 13.46° INC, 1.3° VS									
8,631.0	13.50	249.60	8,628.9	22.3	-0.4	-1.2	12.98	12.93	5.03
8,662.0	17.90	252.80	8,658.8	19.6	-8.4	6.9	14.46	14.19	10.32
8,694.0	22.00	254.60	8,688.8	16.6	-18.8	17.6	12.95	12.81	5.63
8,725.0	25.50	256.70	8,717.2	13.5	-30.9	29.9	11.61	11.29	6.77
8,756.0	29.00	259.00	8,744.8	10.5	-44.8	43.9	11.79	11.29	7.42
8,788.0	32.00	261.40	8,772.3	7.8	-60.8	60.1	10.12	9.38	7.50
8,819.0	34.80	263.00	8,798.2	5.5	-77.7	77.1	9.47	9.03	5.16
8,850.0	38.00	264.20	8,823.1	3.4	-96.0	95.5	10.57	10.32	3.87
8,881.0	41.20	265.10	8,847.0	1.6	-115.7	115.2	10.49	10.32	2.90
8,912.0	44.70	265.10	8,869.7	-0.2	-136.7	136.4	11.29	11.29	0.00
8,943.0	48.70	264.20	8,891.0	-2.3	-159.2	158.9	13.07	12.90	-2.90
8,975.0	52.10	263.40	8,911.4	-5.0	-183.7	183.5	10.80	10.63	-2.50
9,006.0	54.90	263.00	8,929.8	-8.0	-208.4	208.4	9.09	9.03	-1.29
9,037.0	57.90	263.20	8,947.0	-11.1	-234.0	234.2	9.69	9.68	0.65
9,068.0	60.90	263.40	8,962.7	-14.2	-260.5	260.9	9.69	9.68	0.65
9,099.0	63.90	263.70	8,977.1	-17.2	-287.8	288.3	9.72	9.68	0.97
9,131.0	66.90	264.20	8,990.4	-20.3	-316.8	317.4	9.48	9.38	1.56
9,162.0	69.10	264.60	9,002.0	-23.1	-345.4	346.1	7.20	7.10	1.29
9,193.0	72.00	264.90	9,012.4	-25.8	-374.5	375.4	9.40	9.35	0.97
9,210.0	73.50	264.90	9,017.4	-27.2	-390.6	391.6	8.82	8.82	0.00
9,222.0	75.00	263.40	9,020.6	-28.4	-402.1	403.1	17.35	12.50	-12.50
9,253.0	78.70	263.40	9,027.7	-31.9	-432.1	433.3	11.94	11.94	0.00
9,284.0	80.90	263.70	9,033.2	-35.3	-462.4	463.8	7.16	7.10	0.97
9,315.0	82.90	264.10	9,037.6	-38.6	-492.9	494.4	6.58	6.45	1.29
9,346.0	84.30	264.90	9,041.0	-41.5	-523.6	525.2	5.19	4.52	2.58
9,378.0	86.60	265.30	9,043.6	-44.2	-555.4	557.1	7.29	7.19	1.25
9,409.0	88.90	265.80	9,044.8	-46.6	-586.3	588.1	7.59	7.42	1.61
9,440.0	91.70	265.60	9,044.6	-49.0	-617.2	619.1	9.06	9.03	-0.65
9,471.0	92.70	265.80	9,043.4	-51.3	-648.1	650.1	3.29	3.23	0.65



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9,502.0	92.90	265.80	9,041.9	-53.6	-678.9	681.0	0.65	0.65	0.00
EOC: 9502.0 MD, 9041.9 TVD, 92.90° INC, 681.0° VS									
9,595.0	93.60	265.10	9,036.6	-60.9	-771.5	773.9	1.06	0.75	-0.75
9,688.0	94.00	264.60	9,030.5	-69.3	-863.9	866.7	0.69	0.43	-0.54
9,781.0	94.30	264.40	9,023.7	-78.1	-956.3	959.4	0.39	0.32	-0.22
9,874.0	94.10	264.20	9,016.9	-87.4	-1,048.5	1,052.1	0.30	-0.22	-0.22
9,967.0	91.80	264.40	9,012.1	-96.6	-1,141.0	1,145.0	2.48	-2.47	0.22
10,060.0	91.30	264.10	9,009.6	-105.9	-1,233.5	1,237.9	0.63	-0.54	-0.32
10,154.0	91.30	264.40	9,007.5	-115.3	-1,327.0	1,331.8	0.32	0.00	0.32
10,248.0	91.10	264.90	9,005.5	-124.1	-1,420.5	1,425.8	0.57	-0.21	0.53
10,341.0	91.70	265.50	9,003.3	-131.9	-1,513.2	1,518.8	0.91	0.65	0.65
10,434.0	91.50	265.10	9,000.7	-139.5	-1,605.8	1,611.7	0.48	-0.22	-0.43
10,527.0	90.30	264.80	8,999.2	-147.7	-1,698.5	1,704.7	1.33	-1.29	-0.32
10,621.0	90.10	264.90	8,998.9	-156.1	-1,792.1	1,798.7	0.24	-0.21	0.11
10,714.0	90.10	263.70	8,998.7	-165.3	-1,884.6	1,891.7	1.29	0.00	-1.29
10,808.0	89.90	263.50	8,998.7	-175.8	-1,978.0	1,985.6	0.30	-0.21	-0.21
10,901.0	90.10	263.50	8,998.7	-186.3	-2,070.4	2,078.5	0.22	0.22	0.00
10,994.0	89.90	263.50	8,998.7	-196.9	-2,162.8	2,171.4	0.22	-0.22	0.00
11,088.0	90.40	263.90	8,998.5	-207.2	-2,256.3	2,265.4	0.68	0.53	0.43
11,181.0	90.30	263.70	8,997.9	-217.2	-2,348.7	2,358.3	0.24	-0.11	-0.22
11,275.0	91.00	264.10	8,996.8	-227.2	-2,442.2	2,452.2	0.86	0.74	0.43
11,368.0	91.00	263.90	8,995.2	-236.9	-2,534.6	2,545.2	0.22	0.00	-0.22
11,461.0	92.00	264.10	8,992.8	-246.6	-2,627.1	2,638.1	1.10	1.08	0.22
11,555.0	91.50	263.90	8,989.9	-256.5	-2,720.5	2,732.0	0.57	-0.53	-0.21
11,648.0	91.30	263.90	8,987.6	-266.4	-2,813.0	2,824.9	0.22	-0.22	0.00
11,741.0	92.00	263.70	8,984.9	-276.4	-2,905.4	2,917.8	0.78	0.75	-0.22
11,835.0	91.10	263.40	8,982.4	-286.9	-2,998.8	3,011.7	1.01	-0.96	-0.32
11,928.0	90.30	263.40	8,981.3	-297.6	-3,091.2	3,104.6	0.86	-0.86	0.00
12,022.0	90.40	263.50	8,980.7	-308.4	-3,184.5	3,198.6	0.15	0.11	0.11
12,116.0	89.40	264.60	8,980.9	-318.1	-3,278.0	3,292.5	1.58	-1.06	1.17
12,209.0	89.00	265.30	8,982.2	-326.3	-3,370.7	3,385.5	0.87	-0.43	0.75
12,302.0	89.20	266.70	8,983.6	-332.8	-3,463.4	3,478.5	1.52	0.22	1.51
12,396.0	89.20	267.90	8,984.9	-337.2	-3,557.3	3,572.4	1.28	0.00	1.28
12,489.0	90.10	269.00	8,985.5	-339.7	-3,650.3	3,665.3	1.53	0.97	1.18
12,582.0	91.00	269.20	8,984.6	-341.2	-3,743.3	3,758.2	0.99	0.97	0.22
12,675.0	90.80	270.20	8,983.1	-341.7	-3,836.2	3,850.9	1.10	-0.22	1.08
12,769.0	90.60	270.20	8,982.0	-341.3	-3,930.2	3,944.7	0.21	-0.21	0.00
12,863.0	90.60	270.00	8,981.0	-341.2	-4,024.2	4,038.4	0.21	0.00	-0.21
12,956.0	90.60	269.90	8,980.0	-341.3	-4,117.2	4,131.1	0.11	0.00	-0.11
13,050.0	91.10	270.70	8,978.6	-340.8	-4,211.2	4,224.8	1.00	0.53	0.85
13,144.0	91.30	270.90	8,976.7	-339.4	-4,305.2	4,318.5	0.30	0.21	0.21
13,238.0	91.80	270.00	8,974.1	-338.7	-4,399.1	4,412.1	1.09	0.53	-0.96
13,331.0	91.00	269.70	8,971.9	-339.0	-4,492.1	4,504.9	0.92	-0.86	-0.32



Survey Report



Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #4H
Project:	Eddy NM (NAD-83)	TVD Reference:	WELL @ 3598.5usft (Nomac #22 - 21.5' KB)
Site:	Checker BIC Federal Com	MD Reference:	WELL @ 3598.5usft (Nomac #22 - 21.5' KB)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

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)
13,401.0	91.00	270.00	8,970.6	-339.1	-4,562.1	4,574.7	0.43	0.00	0.43
13,457.4	91.00	270.00	8,969.7	-339.1	-4,618.5	4,630.9	0.00	0.00	0.00
BHL - 13457.4' MD, 8969.7' TVD, 91.00° INC, 270.00° AZI, -339.1' N, -4618.5' E, 4630.9' VS									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,507.0	8,505.9	27.6	11.8	KOP - 8507.0' MD, 8505.9' TVD, 0.70° INC, -13.8' VS
8,630.7	8,628.6	22.3	-0.3	Cross into 330' Lease - 8630.7' MD, 8628.6' TVD, 13.46° INC, -1.3' VS
9,502.0	9,041.9	-53.6	-678.9	EOC - 9502.0' MD, 9041.9' TVD, 92.90° INC, 681.0' VS
13,457.4	8,969.7	-339.1	-4,618.5	BHL - 13457.4' MD, 8969.7' TVD, 91.00° INC, 270.00° AZI, -339.1' N, -4618.5' E

Checked By: _____ Approved By: _____ Date: _____



Job Number: SVMO-130747

Company: Yates Petroleum Corporation

Lease/Well: Checker BIC Fed Com 4H

Location: Eddy County, NM

Rig Name: Nomac #22

RKB: 21.5'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 7.47°

Grid: East To Grid North

File name: F:\SURVEY\2013SU~1\YATES\MO\CHECKE~1\4H.SVY

Date/Time: 17-Sep-13 / 14:16

Curve Name: Surface - 800' M.D. (Rate Gyro)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 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	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.41	200.46	100.00	-.34	-.13	-.34	.36	200.46	.41
200.00	.42	177.77	200.00	-1.04	-.24	-1.04	1.06	192.82	.16
300.00	.37	162.03	299.99	-1.71	-.12	-1.71	1.71	184.08	.12
400.00	.38	146.19	399.99	-2.29	.16	-2.29	2.30	175.95	.10
500.00	.36	135.58	499.99	-2.79	.57	-2.79	2.85	168.53	.07
600.00	.35	102.04	599.99	-3.08	1.09	-3.08	3.27	160.60	.21
700.00	.35	78.63	699.99	-3.08	1.68	-3.08	3.51	151.38	.14
Last Survey Depth Recorded									
800.00	.44	69.25	799.98	-2.89	2.34	-2.89	3.72	140.96	.11