



30-015-37462

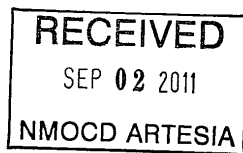
Yates Petroleum Corp.

Eddy County
Chevron "BOT"
#1H
OH

Design: OH

Pathfinder X&Y Report

05 July, 2011



PATHFINDER[®]
A Schlumberger Company



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Coordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	WELL @ 2979.50usft (Original Well Elev)
Site:	Chevron "BOT"	MD Reference:	WELL @ 2979.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:1 Single User Db

Project:	Eddy County	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Chevron "BOT"		
Site Position:		Northing:	453,328.928 usft
From:	Map	Easting:	642,676.146 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 45.066 N
		Longitude:	104° 0' 19.962 W
		Grid Convergence:	0.17 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	453,013.564 usft	Latitude	32° 14' 42.024 N
	+E/-W	0.00 usft	Easting:	640,032.293 usft	Longitude:	104° 0' 50.759 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,953.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/24/2011	7.82	60 13	48,606

Design:	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.27



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Site:	Chevron "BOT"	MD Reference:	WELL @ 2979.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program	Date	7/5/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	600.00	Survey #1 - GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot	
656.00	13,912.00	Survey #2 - MWD (OH)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	-2,979.50	0.00	0.00	0.00	0.00	453,013.56	640,032.29
200.00	1.25	8.22	199.98	-2,779.52	2.16	0.31	2.16	0.62	453,015.72	640,032.60
400.00	1.50	10.31	399.93	-2,579.57	6.89	1.09	6.88	0.13	453,020.46	640,033.39
600.00	1.25	13.49	599.87	-2,379.63	11.59	2.07	11.56	0.13	453,025.15	640,034.36
656.00	0.88	24.09	655.86	-2,323.64	12.58	2.39	12.55	0.75	453,026.14	640,034.68
751.00	0.88	55.17	750.85	-2,228.65	13.66	3.28	13.62	0.50	453,027.22	640,035.58
844.00	0.79	57.20	843.84	-2,135.66	14.41	4.41	14.36	0.10	453,027.98	640,036.70
938.00	1.14	70.31	937.83	-2,041.67	15.08	5.83	15.01	0.44	453,028.64	640,038.13
1,033.00	0.62	91.74	1,032.81	-1,946.69	15.38	7.24	15.29	0.64	453,028.95	640,039.53
1,127.00	0.97	84.66	1,126.80	-1,852.70	15.44	8.54	15.33	0.39	453,029.01	640,040.83
1,221.00	1.14	95.77	1,220.79	-1,758.71	15.42	10.26	15.29	0.28	453,028.99	640,042.55
1,315.00	1.41	83.66	1,314.77	-1,664.73	15.46	12.34	15.30	0.40	453,029.02	640,044.63
1,409.00	0.35	39.68	1,408.75	-1,570.75	15.80	13.67	15.63	1.26	453,029.37	640,045.97
1,504.00	0.35	22.93	1,503.75	-1,475.75	16.30	13.97	16.12	0.11	453,029.86	640,046.27
1,598.00	0.35	52.97	1,597.75	-1,381.75	16.73	14.31	16.55	0.19	453,030.30	640,046.61
1,693.00	0.26	158.11	1,692.75	-1,286.75	16.71	14.63	16.52	0.51	453,030.27	640,046.92
1,787.00	0.26	188.83	1,786.75	-1,192.75	16.30	14.67	16.11	0.15	453,029.86	640,046.96
1,881.00	0.53	198.67	1,880.75	-1,098.75	15.68	14.50	15.49	0.30	453,029.24	640,046.79
1,976.00	1.06	200.66	1,975.74	-1,003.76	14.44	14.05	14.26	0.56	453,028.00	640,046.34
2,070.00	0.62	187.27	2,069.73	-909.77	13.12	13.68	12.94	0.51	453,026.68	640,045.97
2,165.00	0.97	153.87	2,164.72	-814.78	11.89	13.97	11.71	0.60	453,025.45	640,046.26



Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #1H
WELL @ 2979.50usft (Original Well Elev)
WELL @ 2979.50usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sc (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)	
2,259.00	1.49	142.43	2,258.70	-720.80	10.20	15.06	10.01	0.61	453,023.77	640,047.36	
2,354.00	1.06	125.38	2,353.67	-625.83	8.72	16.53	8.51	0.60	453,022.28	640,048.83	
2,448.00	1.06	203.98	2,447.66	-531.84	7.42	16.89	7.20	1.43	453,020.98	640,049.18	
2,542.00	1.06	188.32	2,541.64	-437.86	5.76	16.41	5.55	0.31	453,019.33	640,048.70	
2,636.00	0.35	209.24	2,635.64	-343.86	4.65	16.14	4.45	0.79	453,018.22	640,048.44	
2,731.00	0.53	197.65	2,730.63	-248.87	3.98	15.87	3.78	0.21	453,017.55	640,048.16	
2,825.00	0.44	198.74	2,824.63	-154.87	3.23	15.62	3.03	0.10	453,016.79	640,047.91	
2,918.00	0.62	219.94	2,917.63	-61.87	2.50	15.18	2.31	0.28	453,016.07	640,047.48	
3,013.00	0.53	235.72	3,012.62	33.12	1.86	14.49	1.68	0.19	453,015.42	640,046.78	
3,107.00	0.53	257.60	3,106.62	127.12	1.52	13.71	1.35	0.21	453,015.09	640,046.00	
3,201.00	0.44	257.73	3,200.62	221.12	1.35	12.93	1.19	0.10	453,014.92	640,045.22	
3,296.00	0.53	214.27	3,295.61	316.11	0.91	12.32	0.75	0.39	453,014.48	640,044.62	
3,360.00	0.62	254.41	3,359.61	380.11	0.57	11.82	0.42	0.63	453,014.14	640,044.12	
3,556.00	0.79	228.80	3,555.59	576.09	-0.60	9.79	-0.73	0.18	453,012.96	640,042.08	
3,674.00	0.62	215.87	3,673.59	694.09	-1.65	8.80	-1.77	0.20	453,011.91	640,041.09	
3,862.00	0.62	217.24	3,861.57	882.07	-3.29	7.59	-3.39	0.01	453,010.28	640,039.88	
4,050.00	0.53	213.21	4,049.57	1,070.07	-4.83	6.50	-4.91	0.05	453,008.74	640,038.79	
4,239.00	0.62	234.82	4,238.56	1,259.06	-6.15	5.18	-6.21	0.12	453,007.42	640,037.47	
4,427.00	0.70	230.37	4,426.54	1,447.04	-7.47	3.47	-7.51	0.05	453,006.10	640,035.76	
4,614.00	0.53	229.14	4,613.53	1,634.03	-8.76	1.93	-8.78	0.09	453,004.80	640,034.23	
4,803.00	0.70	227.80	4,802.52	1,823.02	-10.11	0.42	-10.11	0.09	453,003.46	640,032.71	
4,991.00	0.70	185.30	4,990.51	2,011.01	-12.02	-0.54	-12.01	0.27	453,001.54	640,031.75	
5,180.00	0.70	190.40	5,179.49	2,199.99	-14.31	-0.86	-14.29	0.03	452,999.26	640,031.44	
5,368.00	0.79	173.23	5,367.48	2,387.98	-16.72	-0.91	-16.71	0.13	452,996.84	640,031.38	
5,557.00	0.18	280.82	5,556.47	2,576.97	-17.96	-1.05	-17.95	0.46	452,995.60	640,031.24	
5,747.00	0.18	67.42	5,746.47	2,766.97	-17.79	-1.07	-17.78	0.18	452,995.77	640,031.23	
5,935.00	0.35	301.15	5,934.47	2,954.97	-17.38	-1.28	-17.36	0.25	452,996.18	640,031.01	



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp
Project: Eddy County
Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 2979.50usft (Original Well Elev)
MD Reference: WELL @ 2979.50usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi/(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northings (usft)	Easting (usft)	
6,123.00	0.18	209.30	6,122.47	3,142.97	-17.34	-1.92	-17.32	0.21	452,996.22	640,030.37	
6,312.00	0.26	155.07	6,311.47	3,331.97	-17.99	-1.89	-17.96	0.11	452,995.58	640,030.41	
6,500.00	0.26	221.63	6,499.47	3,519.97	-18.69	-1.99	-18.67	0.15	452,994.87	640,030.30	
6,595.00	0.44	195.82	6,594.47	3,614.97	-19.21	-2.23	-19.18	0.25	452,994.36	640,030.06	
6,689.00	0.97	310.77	6,688.46	3,708.96	-19.03	-2.93	-19.00	1.30	452,994.53	640,029.36	
6,783.00	0.97	308.75	6,782.45	3,802.95	-18.02	-4.16	-17.96	0.04	452,995.55	640,028.14	
6,876.00	0.70	344.82	6,875.44	3,895.94	-16.98	-4.92	-16.91	0.62	452,996.59	640,027.37	
6,909.00	0.70	354.18	6,908.44	3,928.94	-16.58	-4.99	-16.52	0.35	452,996.98	640,027.30	
KOP - 6909.00'MD, 6908.44'TVD', -16.58°N, -4.99°E											
6,952.00	1.06	8.36	6,951.43	3,971.93	-15.93	-4.96	-15.86	0.97	452,997.64	640,027.33	
7,004.00	2.29	6.22	7,003.41	4,023.91	-14.42	-4.78	-14.35	2.37	452,999.15	640,027.52	
7,035.00	5.72	2.81	7,034.33	4,054.83	-12.26	-4.64	-12.20	11.09	453,001.31	640,027.66	
7,067.00	10.20	2.63	7,066.01	4,086.51	-7.83	-4.43	-7.78	14.00	453,005.73	640,027.87	
7,098.00	14.25	3.38	7,096.30	4,116.80	-1.28	-4.08	-1.23	13.07	453,012.29	640,028.22	
7,130.00	17.67	5.66	7,127.06	4,147.56	7.49	-3.36	7.53	10.86	453,021.05	640,028.93	
7,161.00	20.05	8.55	7,156.40	4,176.90	17.43	-2.11	17.45	8.25	453,030.99	640,030.18	
7,193.00	21.72	8.34	7,186.29	4,206.79	28.71	-0.44	28.71	5.22	453,042.27	640,031.86	
7,224.00	23.13	5.29	7,214.95	4,235.45	40.45	0.96	40.43	5.90	453,054.01	640,033.25	
7,255.00	25.15	2.51	7,243.24	4,263.74	53.10	1.81	53.07	7.48	453,066.66	640,034.10	
7,287.00	27.87	1.08	7,271.87	4,292.37	67.37	2.25	67.34	8.73	453,080.93	640,034.54	
7,318.00	30.86	1.08	7,298.89	4,319.39	82.57	2.53	82.53	9.65	453,096.13	640,034.83	
7,349.00	34.21	2.14	7,325.02	4,345.52	99.23	3.01	99.18	10.96	453,112.79	640,035.30	
7,381.00	37.72	3.96	7,350.91	4,371.41	117.99	4.02	117.93	11.47	453,131.55	640,036.31	
7,412.00	41.06	4.78	7,374.87	4,395.37	137.60	5.52	137.52	10.90	453,151.17	640,037.82	
7,443.00	44.23	5.31	7,397.67	4,418.17	158.52	7.37	158.41	10.29	453,172.08	640,039.67	
7,474.00	46.96	5.56	7,419.36	4,439.86	180.56	9.47	180.43	8.83	453,194.13	640,041.77	
7,506.00	50.39	5.31	7,440.49	4,460.99	204.48	11.75	204.32	10.73	453,218.05	640,044.04	



Pathfinder
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Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: WELL @ 2979.50usft (Original Well Elev)
MD Reference: WELL @ 2979.50usft (Original Well Elev)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sac (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,537.00	54.26	5.64	7,459.43	4,479.93	228.90	14.09	228.70	12.51	453,242.47	640,046.38	
7,569.00	58.04	5.78	7,477.25	4,497.75	255.34	16.73	255.11	11.82	453,268.91	640,049.03	
7,600.00	60.94	6.30	7,492.99	4,513.49	281.90	19.55	281.63	9.47	453,295.46	640,051.84	
7,631.00	63.40	6.37	7,507.46	4,527.96	309.14	22.57	308.83	7.94	453,322.71	640,054.86	
7,663.00	65.60	6.29	7,521.23	4,541.73	337.85	25.75	337.49	6.88	453,351.41	640,058.05	
7,694.00	69.56	5.21	7,533.05	4,553.55	366.35	28.62	365.96	13.17	453,379.92	640,060.91	
7,726.00	73.69	3.77	7,543.14	4,563.64	396.62	30.99	396.20	13.59	453,410.19	640,063.29	
7,757.00	76.50	1.78	7,551.11	4,571.61	426.54	32.44	426.09	10.98	453,440.10	640,064.73	
7,788.00	78.96	1.70	7,557.70	4,578.20	456.82	33.36	456.35	7.94	453,470.38	640,065.65	
7,820.00	81.60	1.16	7,563.10	4,583.60	488.34	34.15	487.87	8.42	453,501.91	640,066.44	
7,851.00	83.80	1.44	7,567.04	4,587.54	519.08	34.84	518.60	7.15	453,532.65	640,067.14	
7,882.00	86.09	0.69	7,569.77	4,590.27	549.95	35.42	549.46	7.77	453,563.52	640,067.71	
7,914.00	86.88	0.34	7,571.74	4,592.24	581.89	35.70	581.39	2.70	453,595.46	640,068.00	
7,945.00	88.72	0.47	7,572.93	4,593.43	612.87	35.92	612.36	5.95	453,626.43	640,068.22	
LP - 7945.00' MD, 7572.93' TVD, 612.87' N, 35.92' E											
7,976.00	90.75	0.85	7,573.07	4,593.57	643.86	36.28	643.35	6.66	453,657.43	640,068.57	
8,039.00	90.84	2.01	7,572.20	4,592.70	706.84	37.85	706.30	1.85	453,720.40	640,070.15	
8,133.00	88.37	2.59	7,572.84	4,593.34	800.75	41.62	800.16	2.70	453,814.32	640,073.92	
8,228.00	88.20	2.85	7,575.69	4,596.19	895.60	46.13	894.94	0.33	453,909.17	640,078.42	
8,322.00	88.55	0.92	7,578.35	4,598.85	989.51	49.22	988.80	2.09	454,003.07	640,081.51	
8,416.00	90.40	0.87	7,579.21	4,599.71	1,083.49	50.69	1,082.76	1.97	454,097.05	640,082.98	
8,510.00	89.69	1.07	7,579.14	4,599.64	1,177.47	52.28	1,176.71	0.78	454,191.04	640,084.57	
8,573.00	90.57	0.89	7,579.00	4,599.50	1,240.46	53.36	1,239.68	1.43	454,254.03	640,085.65	
8,604.00	90.84	1.15	7,578.62	4,599.12	1,271.46	53.91	1,270.67	1.21	454,285.02	640,086.20	
8,667.00	91.28	1.14	7,577.45	4,597.95	1,334.43	55.17	1,333.62	0.70	454,348.00	640,087.46	
8,698.00	91.28	1.23	7,576.76	4,597.26	1,365.42	55.81	1,364.60	0.29	454,378.98	640,088.10	
8,761.00	90.40	0.32	7,575.83	4,596.33	1,428.41	56.66	1,427.57	2.01	454,441.97	640,088.95	



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Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
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Survey Calculation Method:
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Well #1H
WELL @ 2979.50usft (Original Well Elev)
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Grid
Minimum Curvature
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Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (7/100usft)	Northing (usft)	Easting (usft)	
8,792.00	90.40	0.98	7,575.62	4,596.12	1,459.40	57.01	1,458.56	2.13	454,472.97	640,089.31	
8,886.00	90.84	1.03	7,574.60	4,595.10	1,553.38	58.66	1,552.51	0.47	454,566.95	640,090.95	
8,980.00	89.52	0.03	7,574.30	4,594.80	1,647.37	59.53	1,646.48	1.76	454,660.94	640,091.82	
9,074.00	89.60	0.63	7,575.03	4,595.53	1,741.37	60.07	1,740.46	0.64	454,754.93	640,092.37	
9,168.00	89.43	0.41	7,575.82	4,596.32	1,835.36	60.93	1,834.44	0.30	454,848.93	640,093.22	
9,263.00	89.60	0.84	7,576.63	4,597.13	1,930.35	61.96	1,929.41	0.49	454,943.92	640,094.26	
9,357.00	89.60	1.17	7,577.28	4,597.78	2,024.34	63.61	2,023.36	0.35	455,037.90	640,095.90	
9,452.00	89.34	1.04	7,578.16	4,598.66	2,119.31	65.44	2,118.31	0.31	455,132.88	640,097.74	
9,546.00	89.96	0.70	7,578.74	4,599.24	2,213.30	66.87	2,212.27	0.75	455,226.87	640,099.16	
9,640.00	89.96	0.39	7,578.80	4,599.30	2,307.30	67.76	2,306.25	0.33	455,320.86	640,100.06	
9,734.00	90.40	359.32	7,578.51	4,599.01	2,401.29	67.53	2,400.24	1.23	455,414.86	640,099.82	
9,829.00	90.66	359.36	7,577.63	4,598.13	2,496.28	66.43	2,495.24	0.28	455,509.85	640,098.72	
9,927.00	90.75	359.45	7,576.42	4,596.92	2,594.27	65.41	2,593.23	0.13	455,607.84	640,097.71	
10,016.00	91.19	359.64	7,574.91	4,595.41	2,683.26	64.71	2,682.21	0.54	455,696.82	640,097.00	
10,110.00	90.48	359.89	7,573.54	4,594.04	2,777.24	64.32	2,776.20	0.80	455,790.81	640,096.62	
10,205.00	89.16	359.90	7,573.84	4,594.34	2,872.24	64.15	2,871.19	1.39	455,885.81	640,096.44	
10,299.00	89.34	0.32	7,575.07	4,595.57	2,966.23	64.33	2,965.17	0.49	455,979.80	640,096.62	
10,393.00	89.43	0.26	7,576.08	4,596.58	3,060.23	64.80	3,059.15	0.12	456,073.79	640,097.10	
10,487.00	89.16	0.65	7,577.24	4,597.74	3,154.22	65.55	3,153.13	0.50	456,167.78	640,097.84	
10,582.00	89.96	0.38	7,577.97	4,598.47	3,249.21	66.40	3,248.10	0.89	456,262.77	640,098.70	
10,676.00	89.87	359.56	7,578.11	4,598.61	3,343.21	66.36	3,342.09	0.88	456,356.77	640,098.65	
10,770.00	90.04	358.25	7,578.18	4,598.68	3,437.19	64.56	3,436.09	1.41	456,450.75	640,096.85	
10,865.00	90.22	357.68	7,577.97	4,598.47	3,532.13	61.19	3,531.06	0.63	456,545.69	640,093.48	
10,959.00	90.48	357.89	7,577.39	4,597.89	3,626.06	57.55	3,625.03	0.36	456,639.62	640,089.85	
11,053.00	90.84	358.38	7,576.31	4,596.81	3,720.00	54.49	3,719.00	0.65	456,733.56	640,086.79	
11,147.00	90.04	358.58	7,575.59	4,596.09	3,813.96	52.00	3,812.99	0.88	456,827.53	640,084.29	
11,242.00	90.04	358.09	7,575.52	4,596.02	3,908.92	49.24	3,907.98	0.52	456,922.49	640,081.53	



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Design: OH

Local/Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 2979.50usft (Original Well Elev)
MD Reference: WELL @ 2979.50usft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Dleg (°/100usft)	Northing (usft)	Easting (usft)	
11,336.00	90.40	358.54	7,575.16	4,595.66	4,002.88	46.48	4,001.96	0.61	457,016.44	640,078.77	
11,430.00	89.96	358.03	7,574.87	4,595.37	4,096.84	43.66	4,095.95	0.72	457,110.40	640,075.96	
11,524.00	90.31	357.86	7,574.64	4,595.14	4,190.78	40.29	4,189.92	0.41	457,204.34	640,072.59	
11,619.00	90.48	357.83	7,573.99	4,594.49	4,285.71	36.72	4,284.89	0.18	457,299.27	640,069.01	
11,713.00	89.87	358.41	7,573.70	4,594.20	4,379.66	33.64	4,378.87	0.90	457,393.22	640,065.93	
11,807.00	90.22	358.93	7,573.63	4,594.13	4,473.63	31.45	4,472.87	0.67	457,487.19	640,063.75	
11,902.00	89.78	358.96	7,573.63	4,594.13	4,568.61	29.71	4,567.86	0.46	457,582.18	640,062.00	
11,996.00	89.34	358.52	7,574.35	4,594.85	4,662.59	27.64	4,661.86	0.66	457,676.15	640,059.93	
12,090.00	89.43	358.24	7,575.36	4,595.86	4,756.54	24.98	4,755.84	0.31	457,770.11	640,057.27	
12,208.00	88.99	358.29	7,576.99	4,597.49	4,874.48	21.41	4,873.81	0.38	457,888.04	640,053.70	
12,303.00	88.81	358.17	7,578.81	4,599.31	4,969.42	18.47	4,968.78	0.23	457,982.98	640,050.77	
12,397.00	89.25	357.27	7,580.40	4,600.90	5,063.33	14.74	5,062.73	1.07	458,076.89	640,047.03	
12,491.00	90.84	356.89	7,580.33	4,600.83	5,157.20	9.95	5,156.66	1.74	458,170.77	640,042.24	
12,585.00	91.19	356.76	7,578.66	4,599.16	5,251.04	4.74	5,250.56	0.40	458,264.61	640,037.04	
12,679.00	90.75	357.02	7,577.07	4,597.57	5,344.89	-0.36	5,344.46	0.54	458,358.45	640,031.94	
12,773.00	89.69	356.89	7,576.71	4,597.21	5,438.75	-5.35	5,438.38	1.14	458,452.32	640,026.94	
12,868.00	90.48	358.06	7,576.57	4,597.07	5,533.66	-9.54	5,533.33	1.49	458,547.22	640,022.76	
12,962.00	90.48	358.71	7,575.78	4,596.28	5,627.62	-12.18	5,627.32	0.69	458,641.18	640,020.11	
13,057.00	90.13	359.59	7,575.28	4,595.78	5,722.61	-13.59	5,722.31	1.00	458,736.17	640,018.70	
13,152.00	90.22	358.98	7,574.99	4,595.49	5,817.60	-14.78	5,817.31	0.65	458,831.16	640,017.51	
13,245.00	89.96	357.76	7,574.84	4,595.34	5,910.56	-17.42	5,910.30	1.34	458,924.12	640,014.87	
13,340.00	91.28	356.84	7,573.81	4,594.31	6,005.44	-21.90	6,005.24	1.69	459,019.01	640,010.39	
13,434.00	90.84	356.94	7,572.07	4,592.57	6,099.29	-27.00	6,099.14	0.48	459,112.85	640,005.29	
13,529.00	90.22	357.22	7,571.19	4,591.69	6,194.16	-31.84	6,194.06	0.72	459,207.73	640,000.46	
13,622.00	90.13	356.48	7,570.91	4,591.41	6,287.02	-36.95	6,286.98	0.80	459,300.58	639,995.35	
13,716.00	90.92	356.88	7,570.05	4,590.55	6,380.86	-42.39	6,380.88	0.94	459,394.42	639,989.90	
13,811.00	90.66	357.14	7,568.74	4,589.24	6,475.72	-47.35	6,475.80	0.39	459,489.28	639,984.95	



Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Design: OH

Local Coordinate Reference: Well #1H
TVD Reference: WELL @ 2979.50usft (Original Well Elev)
MD Reference: WELL @ 2979.50usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)
13,860.00	90.31	357.11	7,568.32	4,588.82	6,524.66	-49.80	6,524.76	0.72	459,538.22	639,982.49
13,912.00	90.31	357.11	7,568.04	4,588.54	6,576.59	-52.43	6,576.72	0.00	459,590.15	639,979.87
BHL - 13912.00'MD, 7568.04'TVD', 6576.59'N, -52.43'E - PBHL(Chevron #1H)										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N/S (usft)	E/W (usft)	
6,909.00	6,908.44	-16.58	-4.99	KOP - 6909.00'MD, 6908.44'TVD', -16.58'N, -4.99'E
7,945.00	7,572.93	612.87	35.92	LP - 7945.00'MD, 7572.93'TVD', 612.87'N, 35.92'E
13,912.00	7,568.04	6,576.59	-52.43	BHL - 13912.00'MD, 7568.04'TVD', 6576.59'N, -52.43'E

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County
Site: Chevron "BOT"
Well: #1H
Wellbore: OH
Plan: Plan 2 (#1H/OH)



Azimuths to Grid North
True North: -0.17°
Magnetic North: 7.65°

Magnetic Field
Strength: 48605.5snT
Dip Angle: 60.13°
Date: 3/24/2011
Model: IGRF2010

PATHFINDER
A Schlumberger Company

PROJECT DETAILS, Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grd

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	
7002.00	0.00	0.00	7002.00	0.00	0.00	0.00	0.00	0.00	
7902.07	90.00	4.00	7575.00	571.60	39.97	10.00	4.00	571.05	
4	8018.73	90.00	0.50	7575.00	686.16	44.55	3.00	-90.00	687.54
5	10582.41	90.00	0.50	7575.00	3251.75	66.92	0.00	0.00	3250.63
6	10665.75	90.00	358.00	7575.00	3335.07	65.83	3.00	-90.00	3333.96
7	13941.67	90.00	358.00	7575.00	6608.99	-48.50	0.00	0.00	6609.08 PBHL(Chevron #1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL(Chevron #1H)	7525.00	6608.54	-84.14	459622.104	639948.150	Point

WELL DETAILS #1H							
Ground Elevation		2863.00					
RKB Elevation		WELL @ 2079.50usft (Original Well Elev)					
Rig Name		Original Well Elev					
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	453013.564	640032.293	32° 14' 42.024 N	104° 0' 56.759 W		

