



Project: Eddy County
Site: Blackbird BKR State Com
Well: #3H
Wellbore: OH
Plan: Design #1 (#3H/OH)



Azimuths to Grid North
True North: -0.67°
Magnetic North: 7.90°

Magnetic Field
Strength: 48968.3snT
Dip Angle: 60.69°
Date: 02/15/2011
Model: IGRF 2010

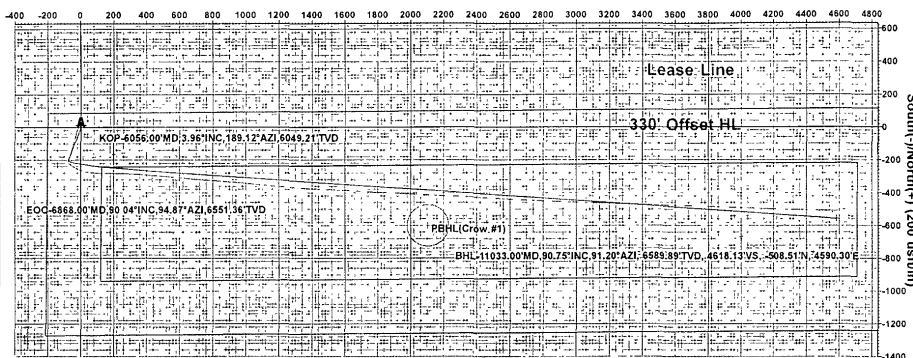
30-015-38317

PATHFINDER

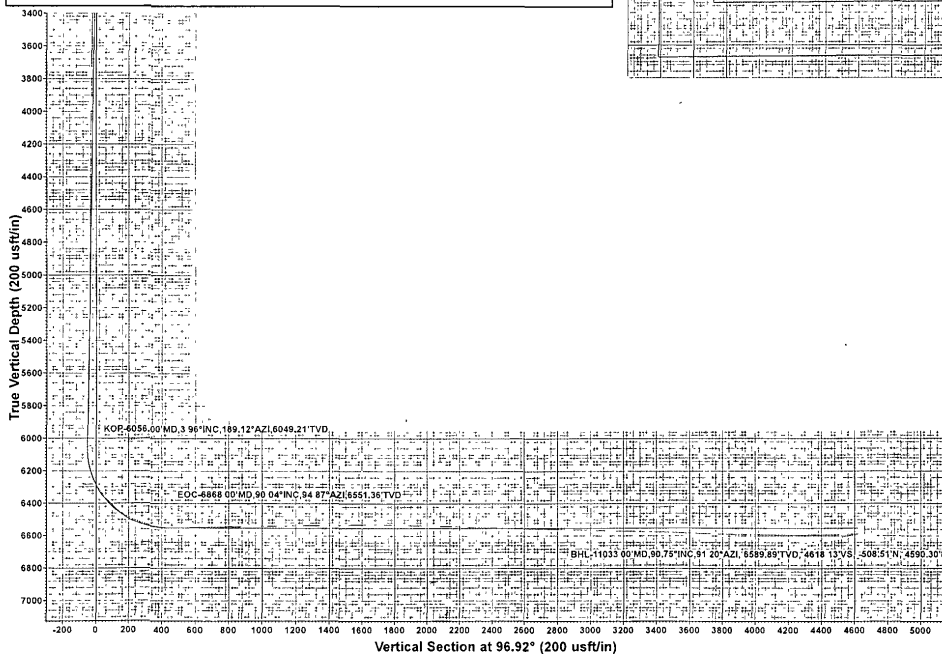
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PROJECT DETAILS Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

West(-)/East(+) (200 usft/in)



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	
2250.00	0.00	0.00	2250.00	0.00	0.00	0.00	0.00	0.00	
2350.00	0.00	0.00	2350.00	0.00	0.00	0.00	0.00	0.00	
2700.00	3.50	200.00	2699.78	-10.04	-3.66	1.00	200.00	-2.42	
6075.50	3.50	200.00	6068.99	-203.68	-74.13	0.00	0.00	-49.06	
6830.95	90.00	93.98	6552.00	-265.03	398.51	12.04	-105.99	427.53	
11025.99	90.00	93.98	6552.00	-556.20	4583.43	0.00	0.00	4617.06	PBHL(BlackBird#3)



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WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL(BlackBird#3)KOP		-555.91	4583.47	681171.710	584998.270	Point
PBHL(Crow #1)		-599.62	2103.95	681128.000	582518.754	Circle (Radius 126.20)

WELL DETAILS #3H						
Ground Elevation: 3573.00						
RKB Elevation: WELL @ 3591.00usft (Silver Oak #10)						
Rig Name: Silver Oak #10						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	681727.820	580414.800	32° 52' 29.49" N	104° 12' 21.782" W	

Plan: Design #1 (#3H/OH)
Created By: Nate Bingham Date: 16 Feb, March 22 2011
Checked: _____ Date: _____



Yates Petroleum Corp.

Eddy County
Blackbird BKR State Com
#3H
OH

Survey: MWD

Pathfinder X & Y Survey Report

22 March, 2011

PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Site:	Blackbird BKR State Com.	MD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:1 Single User Db

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

Site: Blackbird-BKR State Com					
Site Position:		Northing: 681,727.620 usft		Latitude: 32° 52' 26.491 N	
From:	Map	Easting: 580,414.800 usft		Longitude: 104° 12' 21.782 W	
Position Uncertainty: 0.00 usft		Slot Radius: 13-3/16 "		Grid Convergence: 0.07 °	

Well	#3H					
Well Position	+N/-S	0.00 usft	Northing:	681,727.620 usft	Latitude:	32° 52' 26.491 N
	+E/-W	0.00 usft	Easting:	580,414.800 usft	Longitude:	104° 12' 21.782 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,573.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/15/11	7.97	60.69	48,968

Design:	OH			
Audit Notes:				
Version:	10	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	96.92

Survey Program	Date: 03/22/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
2,257.00	11,033.00	MWD (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Site:	Blackbird BKR State Com	MD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1:Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
2,150.00	1.00	267.57	2,149.92	1,441.08	-0.35	-4.15	-4.08	0.00	681,727.27	580,410.65	
2,257.00	0.97	275.22	2,256.91	1,334.09	-0.31	-5.98	-5.90	0.13	681,727.31	580,408.82	
2,352.00	1.58	260.23	2,351.89	1,239.11	-0.46	-8.07	-7.96	0.73	681,727.16	580,406.73	
2,447.00	2.81	234.30	2,446.82	1,144.18	-2.04	-11.26	-10.93	1.63	681,725.58	580,403.54	
2,542.00	3.34	222.32	2,541.68	1,049.32	-5.44	-15.01	-14.25	0.87	681,722.18	580,399.79	
2,637.00	3.96	214.88	2,636.49	954.51	-10.18	-18.75	-17.39	0.82	681,717.44	580,396.05	
2,731.00	3.43	206.69	2,730.29	860.71	-15.35	-21.87	-19.86	0.79	681,712.27	580,392.93	
2,826.00	4.04	201.32	2,825.09	765.91	-21.01	-24.36	-21.65	0.74	681,706.61	580,390.44	
2,921.00	3.69	191.75	2,919.87	671.13	-27.12	-26.20	-22.74	0.77	681,700.50	580,388.60	
3,016.00	3.34	190.69	3,014.70	576.30	-32.83	-27.34	-23.18	0.37	681,694.79	580,387.46	
3,111.00	3.52	192.97	3,109.53	481.47	-38.40	-28.50	-23.67	0.24	681,689.22	580,386.30	
3,206.00	3.61	191.04	3,204.34	386.66	-44.17	-29.73	-24.19	0.16	681,683.45	580,385.07	
3,301.00	3.61	194.01	3,299.15	291.85	-50.01	-31.03	-24.78	0.20	681,677.61	580,383.77	
3,396.00	3.61	192.34	3,393.97	197.03	-55.83	-32.39	-25.43	0.11	681,671.79	580,382.41	
3,491.00	3.52	193.16	3,488.78	102.22	-61.59	-33.70	-26.03	0.11	681,666.03	580,381.10	
3,586.00	3.52	192.29	3,583.60	7.40	-67.28	-34.98	-26.62	0.06	681,660.34	580,379.82	
3,681.00	3.52	191.40	3,678.42	-87.42	-72.99	-36.18	-27.12	0.06	681,654.63	580,378.62	
3,775.00	3.43	193.54	3,772.25	-181.25	-78.56	-37.41	-27.67	0.17	681,649.06	580,377.39	
3,870.00	3.25	198.89	3,867.09	-276.09	-83.87	-38.94	-28.56	0.38	681,643.75	580,375.86	
3,966.00	3.08	197.30	3,962.94	-371.94	-88.90	-40.59	-29.58	0.20	681,638.72	580,374.21	
4,060.00	3.08	199.52	4,056.81	-465.81	-93.69	-42.19	-30.59	0.13	681,633.93	580,372.61	
4,156.00	3.17	204.27	4,152.66	-561.66	-98.54	-44.14	-31.94	0.29	681,629.08	580,370.66	
4,251.00	3.52	190.37	4,247.50	-656.50	-103.81	-45.74	-32.90	0.93	681,623.81	580,369.06	
4,346.00	3.52	192.00	4,342.32	-751.32	-109.53	-46.87	-33.34	0.11	681,618.09	580,367.93	
4,441.00	3.17	190.59	4,437.16	-846.16	-114.96	-47.96	-33.76	0.38	681,612.66	580,366.84	
4,536.00	2.81	191.39	4,532.03	-941.03	-119.83	-48.91	-34.11	0.38	681,607.79	580,365.89	
4,631.00	2.64	196.61	4,626.93	-1,035.93	-124.21	-49.99	-34.66	0.32	681,603.41	580,364.81	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 3591'00usft (Silver Oak #10)
Site:	Blackbird BKR State Com	MD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,726.00	4.13	188.68	4,721.76	-1,130.76	-129.69	-51.13	-35.14	1.64	681,597.93	580,363.67	
4,821.00	4.13	192.47	4,816.51	-1,225.51	-136.41	-52.39	-35.57	0.29	681,591.21	580,362.41	
4,916.00	3.78	194.60	4,911.28	-1,320.28	-142.78	-53.92	-36.32	0.40	681,584.84	580,360.88	
5,011.00	3.69	193.15	5,006.08	-1,415.08	-148.79	-55.40	-37.07	0.14	681,578.83	580,359.40	
5,106.00	3.34	187.56	5,100.90	-1,509.90	-154.51	-56.46	-37.43	0.52	681,573.11	580,358.34	
5,201.00	4.13	205.56	5,195.71	-1,604.71	-160.34	-58.30	-38.56	1.48	681,567.28	580,356.50	
5,295.00	3.96	203.26	5,289.47	-1,698.47	-166.37	-61.04	-40.55	0.25	681,561.25	580,353.76	
5,391.00	3.87	206.14	5,385.25	-1,794.25	-172.33	-63.78	-42.55	0.23	681,555.29	580,351.02	
5,485.00	3.43	204.63	5,479.06	-1,888.06	-177.73	-66.35	-44.45	0.48	681,549.89	580,348.45	
5,580.00	3.25	205.93	5,573.89	-1,982.89	-182.74	-68.71	-46.19	0.21	681,544.88	580,346.09	
5,675.00	3.34	205.49	5,668.74	-2,077.74	-187.65	-71.08	-47.95	0.10	681,539.97	580,343.72	
5,770.00	2.99	201.08	5,763.59	-2,172.59	-192.46	-73.16	-49.44	0.45	681,535.16	580,341.64	
5,865.00	2.81	199.50	5,858.47	-2,267.47	-196.97	-74.83	-50.55	0.21	681,530.65	580,339.97	
5,929.00	2.73	199.20	5,922.40	-2,331.40	-199.89	-75.85	-51.22	0.13	681,527.73	580,338.95	
5,992.00	2.90	195.45	5,985.32	-2,394.32	-202.84	-76.77	-51.77	0.40	681,524.78	580,338.03	
6,024.00	3.17	199.64	6,017.28	-2,426.28	-204.46	-77.29	-52.09	1.09	681,523.16	580,337.51	
6,056.00	3.96	189.12	6,049.21	-2,458.21	-206.38	-77.76	-52.33	3.20	681,521.24	580,337.04	
KOP 6056.00 MD 3.96 INC 189.12 AZI 6049.21 TVD											
6,087.00	6.24	169.13	6,080.09	-2,489.09	-209.09	-77.61	-51.85	9.22	681,518.53	580,337.19	
6,119.00	9.58	153.84	6,111.79	-2,520.79	-213.19	-76.11	-49.87	12.25	681,514.43	580,338.69	
6,155.00	13.01	141.45	6,147.09	-2,556.09	-219.05	-72.26	-45.34	11.62	681,508.57	580,342.54	
6,186.00	16.09	133.00	6,177.09	-2,586.09	-224.71	-66.94	-39.38	12.04	681,502.91	580,347.86	
6,217.00	19.61	128.14	6,206.60	-2,615.60	-230.86	-59.71	-31.46	12.32	681,496.76	580,355.09	
6,247.00	23.48	123.93	6,234.50	-2,643.50	-237.31	-50.78	-21.82	13.88	681,490.31	580,364.02	
6,279.00	27.17	120.13	6,263.42	-2,672.42	-244.53	-39.17	-9.42	12.60	681,483.09	580,375.63	
6,310.00	30.51	116.23	6,290.57	-2,699.57	-251.57	-25.99	4.51	12.36	681,476.05	580,388.81	
6,341.00	33.85	112.09	6,316.81	-2,725.81	-258.30	-10.92	20.28	12.90	681,469.32	580,403.88	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Site:	Blackbird BKR State Com	MD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,372.00	36.76	108.45	6,342.11	-2,751.11	-264.48	5.88	37.71	11.58	681,463.14	580,420.68	
6,402.00	39.75	104.20	6,365.67	-2,774.67	-269.68	23.71	56.02	13.27	681,457.94	580,438.51	
6,434.00	42.47	99.64	6,389.78	-2,798.78	-274.00	44.28	76.97	12.65	681,453.62	580,459.08	
6,465.00	45.64	95.93	6,412.06	-2,821.06	-276.90	65.63	98.52	13.18	681,450.72	580,480.43	
6,496.00	49.15	92.90	6,433.05	-2,842.05	-278.63	88.38	121.30	13.41	681,448.99	580,503.18	
6,527.00	53.38	91.99	6,452.44	-2,861.44	-279.66	112.53	145.40	13.84	681,447.96	580,527.33	
6,558.00	57.51	91.42	6,470.02	-2,879.02	-280.42	138.04	170.82	13.41	681,447.20	580,552.84	
6,589.00	61.91	91.06	6,485.65	-2,894.65	-280.99	164.80	197.45	14.23	681,446.63	580,579.60	
6,620.00	65.77	90.93	6,499.32	-2,908.32	-281.48	192.61	225.12	12.46	681,446.14	580,607.41	
6,651.00	69.12	90.84	6,511.21	-2,920.21	-281.92	221.23	253.59	10.81	681,445.70	580,636.03	
6,682.00	71.93	91.14	6,521.54	-2,930.54	-282.42	250.45	282.66	9.11	681,445.20	580,665.25	
6,713.00	75.01	91.88	6,530.36	-2,939.36	-283.21	280.16	312.24	10.20	681,444.41	580,694.96	
6,744.00	77.56	93.12	6,537.71	-2,946.71	-284.52	310.24	342.26	9.10	681,443.10	580,725.04	
6,775.00	80.28	93.74	6,543.67	-2,952.67	-286.34	340.61	372.63	8.99	681,441.28	580,755.41	
6,806.00	83.36	94.46	6,548.08	-2,957.08	-288.54	371.21	403.27	10.20	681,439.08	580,786.01	
6,837.00	87.23	94.72	6,550.62	-2,959.62	-291.01	402.00	434.13	12.51	681,436.61	580,816.80	
6,868.00	90.04	94.87	6,551.36	-2,960.36	-293.60	432.88	465.10	9.08	681,434.02	580,847.68	
EOC-6868.00°MD,90.04°INC,94.87°AZI,6551.36°TVD											
6,948.00	91.80	95.06	6,550.07	-2,959.07	-300.52	512.57	545.04	2.21	681,427.10	580,927.37	
7,041.00	91.45	95.18	6,547.43	-2,956.43	-308.82	605.16	637.96	0.40	681,418.80	581,019.96	
7,135.00	91.28	95.11	6,545.20	-2,954.20	-317.25	698.75	731.88	0.20	681,410.37	581,113.55	
7,228.00	90.40	94.61	6,543.83	-2,952.83	-325.12	791.41	824.81	1.09	681,402.50	581,206.21	
7,321.00	90.66	94.69	6,542.97	-2,951.97	-332.66	884.10	917.74	0.29	681,394.96	581,298.90	
7,415.00	91.54	95.20	6,541.17	-2,950.17	-340.77	977.73	1,011.66	1.08	681,386.85	581,392.53	
7,508.00	91.28	95.60	6,538.88	-2,947.88	-349.51	1,070.29	1,104.60	0.51	681,378.11	581,485.09	
7,601.00	91.10	94.86	6,536.95	-2,945.95	-357.99	1,162.88	1,197.54	0.82	681,369.63	581,577.68	
7,695.00	91.10	94.62	6,535.14	-2,944.14	-365.76	1,256.54	1,291.45	0.26	681,361.86	581,671.34	



Pathfinder
Pathfinder X & Y Survey Report



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,788.00	90.84	93.60	6,533.57	-2,942.57	-372.42	1,349.29	1,384.33	1.13	681,355.20	581,764.09
7,882.00	91.19	93.01	6,531.90	-2,940.90	-377.84	1,443.11	1,478.13	0.73	681,349.78	581,857.91
7,975.00	90.92	92.58	6,530.19	-2,939.19	-382.37	1,535.99	1,570.87	0.55	681,345.25	581,950.79
8,068.00	89.96	93.18	6,529.48	-2,938.48	-387.05	1,628.87	1,663.63	1.22	681,340.57	582,043.67
8,162.00	88.37	93.16	6,530.85	-2,939.85	-392.24	1,722.71	1,757.42	1.69	681,335.38	582,137.51
8,254.00	88.81	93.08	6,533.11	-2,942.11	-397.25	1,814.55	1,849.19	0.49	681,330.37	582,229.35
8,348.00	88.37	93.27	6,535.42	-2,944.42	-402.45	1,908.37	1,942.96	0.51	681,325.17	582,323.17
8,442.00	88.55	93.22	6,537.95	-2,946.95	-407.77	2,002.19	2,036.73	0.20	681,319.85	582,416.99
8,535.00	88.72	92.93	6,540.17	-2,949.17	-412.76	2,095.03	2,129.50	0.36	681,314.86	582,509.83
8,628.00	88.20	92.99	6,542.66	-2,951.66	-417.56	2,187.87	2,222.24	0.56	681,310.06	582,602.67
8,721.00	88.20	93.01	6,545.59	-2,954.59	-422.43	2,280.70	2,314.98	0.02	681,305.19	582,695.50
8,814.00	88.29	93.02	6,548.43	-2,957.43	-427.31	2,373.52	2,407.72	0.10	681,300.31	582,788.32
8,907.00	88.37	92.71	6,551.14	-2,960.14	-431.96	2,466.37	2,500.45	0.34	681,295.66	582,881.17
9,001.00	88.55	93.01	6,553.67	-2,962.67	-436.65	2,560.22	2,594.18	0.37	681,290.97	582,975.02
9,094.00	88.72	93.30	6,555.89	-2,964.89	-441.77	2,653.05	2,686.95	0.36	681,285.85	583,067.85
9,187.00	88.29	92.65	6,558.31	-2,967.31	-446.59	2,745.89	2,779.70	0.84	681,281.03	583,160.69
9,281.00	88.11	92.38	6,561.26	-2,970.26	-450.71	2,839.75	2,873.37	0.35	681,276.91	583,254.55
9,374.00	88.29	92.57	6,564.19	-2,973.19	-454.73	2,932.62	2,966.05	0.28	681,272.89	583,347.42
9,467.00	88.20	92.55	6,567.03	-2,976.03	-458.88	3,025.49	3,058.73	0.10	681,268.74	583,440.29
9,560.00	88.46	92.01	6,569.74	-2,978.74	-462.58	3,118.37	3,151.39	-0.64	681,265.04	583,533.17
9,653.00	88.90	91.83	6,571.89	-2,980.89	-465.69	3,211.29	3,244.01	0.51	681,261.93	583,626.09
9,747.00	88.37	91.88	6,574.13	-2,983.13	-468.74	3,305.22	3,337.62	0.57	681,258.88	583,720.02
9,839.00	88.72	91.49	6,576.46	-2,985.46	-471.44	3,397.15	3,429.20	0.57	681,256.18	583,811.95
9,932.00	87.85	91.85	6,579.25	-2,988.25	-474.15	3,490.07	3,521.77	1.01	681,253.47	583,904.87
10,026.00	88.02	91.75	6,582.63	-2,991.63	-477.10	3,583.96	3,615.33	0.21	681,250.52	583,998.76
10,119.00	88.02	91.75	6,585.85	-2,994.85	-479.94	3,676.86	3,707.90	0.00	681,247.68	584,091.66
10,212.00	88.72	92.22	6,588.49	-2,997.49	-483.16	3,769.77	3,800.52	0.91	681,244.46	584,184.57



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Site:	Blackbird BKR State Com	MD Reference:	WELL @ 3591.00usft (Silver Oak #10)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM-5000.1 Single User Db

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
10,305.00	89.16	92.34	6,590.21	-2,999.21	-486.86	3,862.68	3,893.20	0.49	681,240.76	584,277.48
10,398.00	89.16	92.13	6,591.57	-3,000.57	-490.48	3,955.60	3,985.88	0.23	681,237.14	584,370.40
10,492.00	89.78	91.95	6,592.44	-3,001.44	-493.83	4,049.53	4,079.53	0.69	681,233.79	584,464.33
10,585.00	89.52	91.77	6,593.01	-3,002.01	-496.85	4,142.48	4,172.17	0.34	681,230.77	584,557.28
10,679.00	89.96	91.56	6,593.44	-3,002.44	-499.58	4,236.44	4,265.77	0.52	681,228.04	584,651.24
10,773.00	90.48	91.62	6,593.08	-3,002.08	-502.19	4,330.40	4,359.36	0.56	681,225.43	584,745.20
10,866.00	90.75	91.55	6,592.08	-3,001.08	-504.76	4,423.36	4,451.95	0.30	681,222.86	584,838.16
10,950.00	90.75	91.20	6,590.98	-2,999.98	-506.78	4,507.33	4,535.55	0.42	681,220.84	584,922.13
11,033.00	90.75	91.20	6,589.89	-2,998.89	-508.51	4,590.30	4,618.13	0.00	681,219.11	585,005.10
BHL-11033.00°MD,90.75°INC,91.20°AZI,6589.89°TVD,4618.13°VS,-508.51°N,4590.30°E										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,056.00	6,049.21	-206.38	-77.76	KOP-6056.00°MD,3.96°INC,189.12°AZI,6049.21°TVD
6,868.00	6,551.36	-293.60	432.88	EOC-6868.00°MD,90.04°INC,94.87°AZI,6551.36°TVD
11,033.00	6,589.89	-508.51	4,590.30	BHL-11033.00°MD,90.75°INC,91.20°AZI,6589.89°TVD,4618.13°VS,-508.51°N,

Checked By: _____	Approved By: _____	Date: _____
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