



Project: Eddy County
 Site: Pinochle "BNP" State
 Well: #2H
 Wellbore: OH
 Plan: Design #2 (#2H/OH)



Azimuths to Grid North
 True North: -0.13°
 Magnetic North: 7.73°

Magnetic Field
 Strength: 48543.9nT
 Dip Angle: 60.01°
 Date: 01/03/2011
 Model: IGRF2010

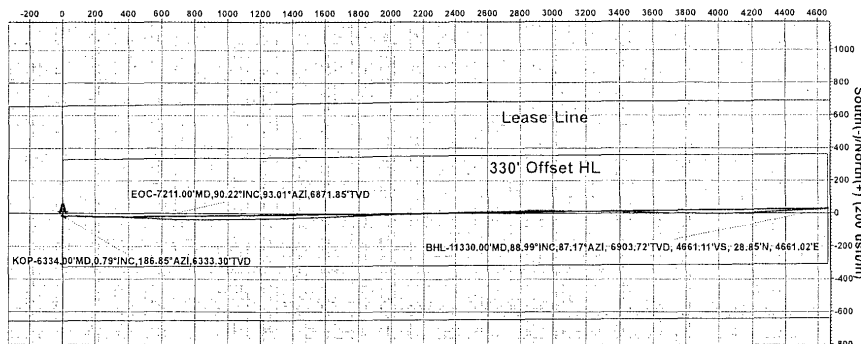
30-015-38316

PATHFINDER

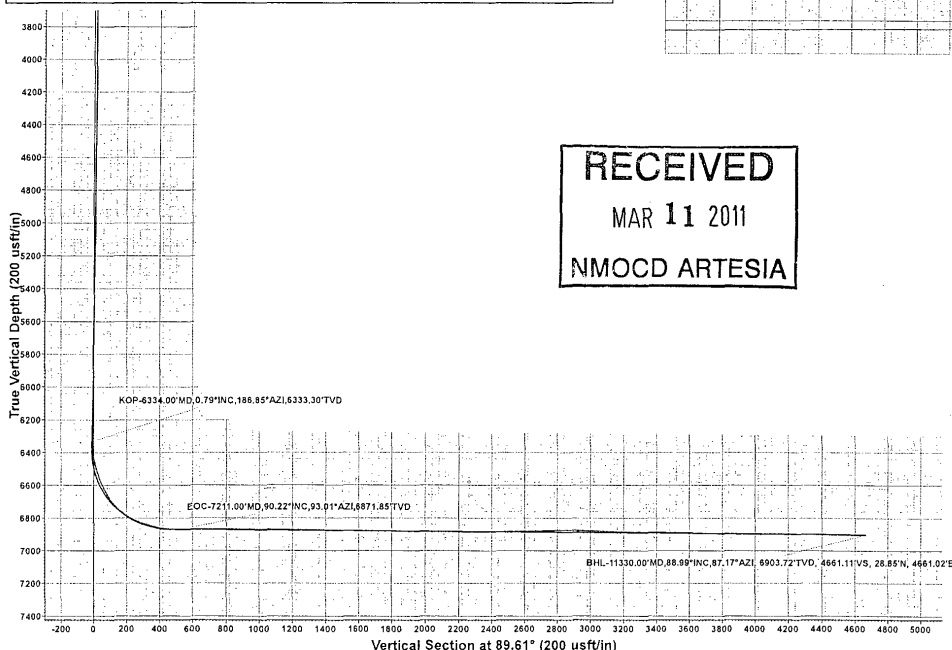
A Schlumberger Company

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: Grid

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



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal	Target
6378.50	2.21	232.81	6377.74	-12.80	-11.67	0.00	0.00	-11.75	
7140.00	89.58	89.32	6870.00	-18.37	462.28	12.00	-143.58	462.14	
11339.67	89.58	89.32	6900.78	31.47	4661.54	0.00	0.00	4661.65	PBHL(PSC#2H)



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WELL DETAILS: #2H						
Ground Elevation: 2996.00						
RKB Elevation: Patriot #5 @ 3022.50usft (26.5' KB)						
Rig Name: 26.5' KB						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	407754.240	618056.713	32° 7' 15.085 N	104° 4' 57.396 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(PSC#2H)00.00	31.65	4661.54	407825.914	623618.255	Point	

Plan: Design #2 (#2H/OH)	
Created By: Nate Bingham	Date: 16:55, January 10 2011
Checked: _____	Date: _____



Yates Petroleum Corp.

Eddy County

Pinochle "BNP" State Com

#2H

OH

Survey: MWD #1

Pathfinder X & Y Survey Report

10 January, 2011

PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Survey Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	Patriot #5 @ 3022.50usft (26.5' KB)
Site:	Pinochle "BNP" State Com	MD Reference:	Patriot #5 @ 3022.50usft (26.5' KB)
Well:	#2H	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:	Pinochle "BNP" State Com		
Site Position:		Northing:	407,794.249 usft
From:	Map	Easting:	618,956.713 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 15.086 N
		Longitude:	104° 4' 57.396 W
		Grid Convergence:	0.13 °

Well	#2H					
Well Position	+N/-S	0.00 usft	Northing:	407,794.249 usft	Latitude:	32° 7' 15.086 N
	+E/-W	0.00 usft	Easting:	618,956.713 usft	Longitude:	104° 4' 57.396 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,996.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/03/11	7.87	60.01	48,544

Design:	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	89.61	

Survey Program	Date	01/10/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	7,500.00	Pilot Hole (OH)	MWD	MWD - Standard	



Pathfinder
Pathfinder X & Y Survey Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Pinochle "BNP" State Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
MD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
0.00	0.00	0.00	0.00	3,022.50	0.00	0.00	0.00	0.00	407,794.25	618,956.71
200.00	0.25	91.34	200.00	2,822.50	-0.01	0.44	0.44	0.12	407,794.24	618,957.15
400.00	0.50	171.45	400.00	2,622.50	-0.88	1.00	1.00	0.26	407,793.37	618,957.72
480.00	0.35	307.13	479.99	2,542.51	-1.08	0.86	0.85	0.99	407,793.17	618,957.57
572.00	0.44	260.61	571.99	2,450.51	-0.97	0.29	0.28	0.35	407,793.28	618,957.00
760.00	0.70	191.81	759.99	2,262.51	-2.21	-0.66	-0.68	0.36	407,792.04	618,956.05
948.00	1.06	173.26	947.96	2,074.54	-5.06	-0.69	-0.73	0.24	407,789.19	618,956.02
1,042.00	1.67	170.87	1,041.94	1,980.56	-7.28	-0.37	-0.42	0.65	407,786.97	618,956.34
1,136.00	1.23	161.19	1,135.91	1,886.59	-9.59	0.17	0.11	0.53	407,784.66	618,956.88
1,230.00	0.44	196.07	1,229.90	1,792.60	-10.89	0.40	0.32	0.96	407,783.36	618,957.11
1,324.00	0.79	206.49	1,323.89	1,698.61	-11.81	0.01	-0.07	0.39	407,782.44	618,956.72
1,418.00	0.88	221.70	1,417.88	1,604.62	-12.93	-0.76	-0.85	0.25	407,781.32	618,955.95
1,512.00	0.88	208.69	1,511.87	1,510.63	-14.11	-1.59	-1.68	0.21	407,780.14	618,955.12
1,606.00	0.88	210.08	1,605.86	1,416.64	-15.36	-2.30	-2.40	0.02	407,778.89	618,954.42
1,700.00	0.97	207.64	1,699.85	1,322.65	-16.69	-3.03	-3.14	0.10	407,777.56	618,953.68
1,795.00	1.23	178.98	1,794.83	1,227.67	-18.42	-3.38	-3.51	0.63	407,775.82	618,953.33
1,890.00	1.58	104.87	1,889.81	1,132.69	-19.78	-2.10	-2.23	1.81	407,774.47	618,954.61
1,985.00	2.20	80.47	1,984.76	1,037.74	-19.81	0.97	0.83	1.06	407,774.43	618,957.68
2,079.00	1.23	61.11	2,078.71	943.79	-19.03	3.63	3.50	1.19	407,775.22	618,960.34
2,174.00	2.29	80.45	2,173.67	848.83	-18.22	6.39	6.27	1.26	407,776.03	618,963.11
2,268.00	1.58	91.12	2,267.61	754.89	-17.93	9.54	9.42	0.84	407,776.31	618,966.25
2,362.00	1.14	121.46	2,361.59	660.91	-18.45	11.63	11.51	0.88	407,775.80	618,968.35
2,456.00	0.97	130.46	2,455.57	566.93	-19.45	13.04	12.90	0.25	407,774.80	618,969.75
2,639.00	0.62	139.01	2,638.56	383.94	-21.20	14.86	14.72	0.20	407,773.04	618,971.58
2,827.00	0.44	150.51	2,826.55	195.95	-22.60	15.89	15.73	0.11	407,771.65	618,972.60
3,015.00	0.70	170.36	3,014.54	7.96	-24.36	16.43	16.27	0.17	407,769.89	618,973.15
3,203.00	0.70	184.20	3,202.52	-180.02	-26.64	16.54	16.36	0.09	407,767.61	618,973.26



Pathfinder
Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Pinochle "BNP" State Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #2H
MD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
North Reference: Patriot #5 @ 3022.50usft (26.5' KB)
Survey Calculation Method: Grid
Database: Minimum Curvature
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)	
3,392.00	0.44	345.23	3,391.52	-369.02	-27.09	16.27	16.09	0.60	407,767.16	618,972.99	
3,581.00	0.44	324.76	3,580.51	-558.01	-25.79	15.67	15.49	0.08	407,768.46	618,972.38	
3,769.00	0.44	331.51	3,768.51	-746.01	-24.57	14.91	14.74	0.03	407,769.68	618,971.62	
3,958.00	0.35	6.82	3,957.51	-935.01	-23.36	14.63	14.47	0.13	407,770.89	618,971.34	
4,147.00	0.44	340.63	4,146.50	-1,124.00	-22.10	14.46	14.31	0.11	407,772.15	618,971.17	
4,335.00	0.44	325.21	4,334.50	-1,312.00	-20.83	13.81	13.67	0.06	407,773.42	618,970.52	
4,524.00	0.18	285.02	4,523.49	-1,500.99	-20.15	13.11	12.97	0.17	407,774.09	618,969.82	
4,712.00	0.97	334.50	4,711.48	-1,688.98	-18.64	12.14	12.01	0.46	407,775.61	618,968.85	
4,901.00	0.18	228.87	4,900.47	-1,877.97	-17.39	11.22	11.11	0.55	407,776.86	618,967.94	
5,089.00	1.14	290.19	5,088.46	-2,065.96	-16.94	9.25	9.13	0.57	407,777.31	618,965.96	
5,277.00	0.88	280.87	5,276.43	-2,253.93	-16.02	6.07	5.96	0.16	407,778.23	618,962.79	
5,465.00	1.14	286.48	5,464.40	-2,441.90	-15.22	2.86	2.76	0.15	407,779.03	618,959.58	
5,653.00	0.88	316.92	5,652.37	-2,629.87	-13.64	0.08	-0.01	0.31	407,780.61	618,956.80	
5,842.00	0.88	303.95	5,841.35	-2,818.85	-11.77	-2.11	-2.19	0.11	407,782.48	618,954.60	
6,030.00	0.70	254.40	6,029.34	-3,006.84	-11.27	-4.42	-4.49	0.36	407,782.98	618,952.30	
6,219.00	1.23	279.71	6,218.31	-3,195.81	-11.24	-7.53	-7.60	0.35	407,783.01	618,949.19	
6,271.00	0.44	235.55	6,270.30	-3,247.80	-11.26	-8.24	-8.32	1.85	407,782.99	618,948.47	
6,334.00	0.79	186.85	6,333.30	-3,310.80	-11.82	-8.49	-8.57	0.95	407,782.43	618,948.22	
KOP-6334.00°MD,0.79°INC,186.85°AZI,6333.30°TVD											
6,365.00	2.46	108.85	6,364.29	-3,341.79	-12.25	-7.89	-7.97	7.81	407,782.00	618,948.82	
6,396.00	5.89	97.48	6,395.20	-3,372.70	-12.67	-5.68	-5.77	11.33	407,781.58	618,951.03	
6,428.00	9.15	97.94	6,426.92	-3,404.42	-13.24	-1.53	-1.62	10.19	407,781.01	618,955.18	
6,459.00	11.96	97.56	6,457.39	-3,434.89	-14.00	4.09	4.00	9.07	407,780.25	618,960.81	
6,491.00	14.77	95.85	6,488.53	-3,466.03	-14.85	11.44	11.34	8.87	407,779.40	618,968.15	
6,522.00	17.59	93.07	6,518.29	-3,495.79	-15.51	20.05	19.94	9.43	407,778.74	618,976.76	
6,553.00	20.58	89.92	6,547.59	-3,525.09	-15.75	30.18	30.07	10.20	407,778.50	618,986.89	
6,584.00	23.13	87.06	6,576.36	-3,553.86	-15.43	41.71	41.60	8.91	407,778.82	618,998.42	



Pathfinder
Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Pinochle "BNP" State Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
MD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
6,616.00	25.85	86.58	6,605.48	-3,582.98	-14.69	54.95	54.85	8.52	407,779.56	619,011.67	
6,647.00	28.05	86.79	6,633.11	-3,610.61	-13.88	68.98	68.88	7.10	407,780.37	619,025.69	
6,678.00	30.16	89.38	6,660.19	-3,637.69	-13.39	84.04	83.95	7.93	407,780.86	619,040.76	
6,710.00	33.41	91.40	6,687.39	-3,664.89	-13.52	100.90	100.80	10.69	407,780.73	619,057.61	
6,741.00	37.90	92.37	6,712.57	-3,690.07	-14.12	118.95	118.85	14.60	407,780.13	619,075.66	
6,772.00	43.53	92.61	6,736.06	-3,713.56	-15.00	139.14	139.04	18.17	407,779.25	619,095.86	
6,804.00	49.24	92.75	6,758.13	-3,735.63	-16.08	162.28	162.16	17.85	407,778.17	619,118.99	
6,835.00	54.78	91.99	6,777.20	-3,754.70	-17.09	186.68	186.56	17.97	407,777.16	619,143.39	
6,897.00	65.07	91.38	6,808.23	-3,785.73	-18.65	240.24	240.10	16.62	407,775.60	619,196.95	
6,929.00	68.06	90.13	6,820.96	-3,798.46	-19.03	269.59	269.45	10.01	407,775.22	619,226.30	
6,991.00	72.37	92.03	6,841.94	-3,819.44	-20.14	327.90	327.76	7.53	407,774.11	619,284.61	
7,023.00	75.27	92.51	6,850.85	-3,828.35	-21.36	358.61	358.45	9.18	407,772.89	619,315.32	
7,086.00	81.34	93.28	6,863.62	-3,841.12	-24.48	420.19	420.01	9.71	407,769.77	619,376.90	
7,117.00	84.42	93.47	6,867.46	-3,844.96	-26.29	450.89	450.71	9.95	407,767.96	619,407.61	
7,211.00	90.22	93.01	6,871.85	-3,849.35	-31.59	544.60	544.37	6.19	407,762.65	619,501.31	
EOC-7211.00°MD,90.22°INC,93.01°AZI,6871.85°TVD											
7,306.00	90.66	91.64	6,871.12	-3,848.62	-35.45	639.52	639.26	1.51	407,758.80	619,596.23	
7,400.00	91.19	90.42	6,869.61	-3,847.11	-37.14	733.49	733.22	1.41	407,757.11	619,690.20	
7,494.00	89.87	89.97	6,868.74	-3,846.24	-37.46	827.48	827.21	1.48	407,756.79	619,784.19	
7,588.00	89.69	89.55	6,869.10	-3,846.60	-37.06	921.48	921.21	0.49	407,757.18	619,878.19	
7,682.00	89.78	88.65	6,869.53	-3,847.03	-35.59	1,015.47	1,015.20	0.96	407,758.66	619,972.18	
7,776.00	89.08	89.29	6,870.47	-3,847.97	-33.90	1,109.45	1,109.19	1.01	407,760.35	620,066.16	
7,871.00	88.99	87.79	6,872.07	-3,849.57	-31.48	1,204.40	1,204.16	1.58	407,762.77	620,161.11	
7,965.00	89.69	88.86	6,873.15	-3,850.65	-28.73	1,298.35	1,298.12	1.36	407,765.52	620,255.06	
8,059.00	88.90	88.59	6,874.31	-3,851.81	-26.64	1,392.32	1,392.11	0.89	407,767.61	620,349.03	
8,153.00	88.20	88.88	6,876.69	-3,854.19	-24.56	1,486.26	1,486.06	0.81	407,769.68	620,442.98	
8,248.00	89.96	87.44	6,878.21	-3,855.71	-21.51	1,581.20	1,581.01	2.39	407,772.73	620,537.91	



Pathfinder
Pathfinder X & Y Survey Report



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Site: Pinochle "BNP" State Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
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Survey Calculation Method:
Database:
Well #2H
Patriot #5 @ 3022.50usft (26.5' KB)
Patriot #5 @ 3022.50usft (26.5' KB)
Grid
Minimum Curvature
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)	
8,342.00	90.04	87.71	6,878.21	-3,855.71	-17.54	1,675.11	1,674.96	0.30	407,776.71	620,631.83	
8,435.00	89.25	87.64	6,878.79	-3,856.29	-13.76	1,768.03	1,767.90	0.85	407,780.48	620,724.75	
8,529.00	88.46	87.94	6,880.67	-3,858.17	-10.14	1,861.94	1,861.83	0.90	407,784.11	620,818.66	
8,624.00	89.16	88.46	6,882.64	-3,860.14	-7.16	1,956.88	1,956.78	0.92	407,787.09	620,913.59	
8,718.00	89.87	87.96	6,883.44	-3,860.94	-4.22	2,050.83	2,050.75	0.92	407,790.03	621,007.54	
8,811.00	89.52	88.59	6,883.93	-3,861.43	-1.42	2,143.78	2,143.72	0.77	407,792.83	621,100.50	
8,905.00	88.90	88.80	6,885.23	-3,862.73	0.72	2,237.75	2,237.70	0.70	407,794.97	621,194.46	
8,999.00	91.10	88.42	6,885.23	-3,862.73	3.00	2,331.71	2,331.68	2.38	407,797.25	621,288.43	
9,093.00	91.28	87.15	6,883.27	-3,860.77	6.63	2,425.62	2,425.61	1.36	407,800.88	621,382.34	
9,187.00	91.45	88.06	6,881.03	-3,858.53	10.56	2,519.51	2,519.53	0.98	407,804.81	621,476.23	
9,281.00	91.28	88.24	6,878.80	-3,856.30	13.59	2,613.44	2,613.47	0.26	407,807.84	621,570.15	
9,376.00	91.45	88.50	6,876.53	-3,854.03	16.29	2,708.37	2,708.42	0.33	407,810.54	621,665.08	
9,470.00	91.54	89.04	6,874.08	-3,851.58	18.31	2,802.32	2,802.38	0.58	407,812.56	621,759.03	
9,563.00	88.64	89.04	6,873.93	-3,851.43	19.87	2,895.29	2,895.36	3.12	407,814.12	621,852.01	
9,658.00	88.20	91.14	6,876.55	-3,854.05	19.72	2,990.25	2,990.32	2.26	407,813.97	621,946.97	
9,753.00	86.88	92.25	6,880.63	-3,858.13	16.91	3,085.12	3,085.16	1.81	407,811.16	622,041.83	
9,846.00	88.81	90.91	6,884.13	-3,861.63	14.35	3,178.01	3,178.04	2.53	407,808.60	622,134.73	
9,940.00	89.43	90.06	6,885.57	-3,863.07	13.56	3,272.00	3,272.01	1.12	407,807.80	622,228.71	
10,034.00	89.52	90.55	6,886.43	-3,863.93	13.05	3,365.99	3,366.00	0.53	407,807.30	622,322.70	
10,128.00	88.90	91.17	6,887.73	-3,865.23	11.64	3,459.97	3,459.97	0.93	407,805.89	622,416.68	
10,222.00	88.55	92.56	6,889.82	-3,867.32	8.59	3,553.89	3,553.87	1.52	407,802.84	622,510.61	
10,316.00	88.11	91.10	6,892.56	-3,870.06	5.59	3,647.80	3,647.76	1.62	407,799.83	622,604.52	
10,410.00	88.55	91.01	6,895.30	-3,872.80	3.86	3,741.75	3,741.69	0.48	407,798.10	622,698.46	
10,504.00	88.81	90.79	6,897.47	-3,874.97	2.38	3,835.71	3,835.64	0.36	407,796.63	622,792.42	
10,598.00	89.34	90.98	6,898.98	-3,876.48	0.93	3,929.69	3,929.60	0.60	407,795.18	622,886.40	
10,692.00	89.69	88.95	6,899.78	-3,877.28	0.99	4,023.68	4,023.59	2.19	407,795.23	622,980.39	
10,786.00	89.78	87.74	6,900.21	-3,877.71	3.70	4,117.64	4,117.57	1.29	407,797.95	623,074.35	



Pathfinder
Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Pinochle "BNP" State Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
MD Reference: Patriot #5 @ 3022.50usft (26.5' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
10,880.00	89.87	88.36	6,900.50	-3,878.00	6.90	4,211.58	4,211.53	0.67	407,801.15	623,168.29
10,974.00	89.78	87.18	6,900.79	-3,878.29	10.56	4,305.51	4,305.48	1.26	407,804.80	623,262.22
11,068.00	89.96	86.68	6,901.00	-3,878.50	15.59	4,399.37	4,399.38	0.57	407,809.84	623,356.09
11,162.00	89.69	87.22	6,901.29	-3,878.79	20.59	4,493.24	4,493.28	0.64	407,814.84	623,449.95
11,248.00	88.99	87.17	6,902.28	-3,879.78	24.80	4,579.13	4,579.19	0.82	407,819.05	623,535.84
11,330.00	88.99	87.17	6,903.72	-3,881.22	28.85	4,661.02	4,661.11	0.00	407,823.10	623,617.73

BHL-11330.00'MD,88.99°INC,87.17°AZI, 6903.72'TVD, 4661.11'VS, 28.85°N, 4661.02'E - PBHL(PSC#2H)

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
6,334.00	6,333.30	-11.82	-8.49	KOP-6334.00'MD,0.79°INC,186.85°AZI,6333.30'TVD
7,211.00	6,871.85	-31.59	544.60	EOC-7211.00'MD,90.22°INC,93.01°AZI,6871.85'TVD
11,330.00	6,903.72	28.85	4,661.02	BHL-11330.00'MD,88.99°INC,87.17°AZI, 6903.72'TVD, 4661.11'VS, 28.85°N, 41

Checked By: _____ Approved By: _____ Date: _____