

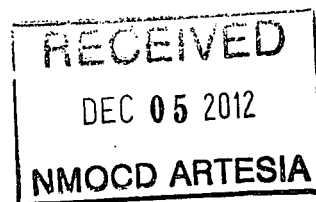
PATRIOT DRILLING, LLC

OPERATOR: Yates Petroleum Corp.
WELL/LEASE: Perfecto Box State Com # 1 H
COUNTY: Eddy Co., New Mexico
Sec. 14, T25S, R27E

30-015-37463

**STATE OF NEW MEXICO
DEVIATION REPORT**

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
496	1 1/4	4,804	1 1/4
557	1 1/4	5,087	1
651	1 1/2	5,370	1 3/4
935	4 1/2	5,653	1 1/2
1,124	2 1/4	5,938	1 1/2
1,314	2 1/4	6,222	1
1,503	3 3/4	6,505	1 1/4
1,692	1 1/4	6,648	1 1/4
1,882	1 1/4	6,741	1 1/4
2,071	2 1/4	7,025	1 1/2
2,449	1	7,119	1 3/4
2,727	3/4	7,213	2
3,010	3/4		
3,388	1/4		
3,954	1/2		
4,237	1		
4,521	1 1/4		



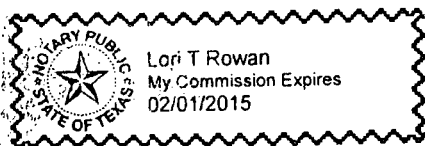
Patriot Drilling, LLC

M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 22nd day of October, 2012 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,

My Commission Expires: 02/01/2015

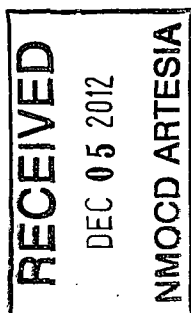
Lori T. Rowan
Notary Public for Ector Co., Texas





Job Number: SVMO-120017
 Company: Yates Petroleum Corporation
 Lease/Well: PERFECTO BOX STATE COM 001H
 Location: Eddy County, NM
 Rig Name: Patriot #5
 RKB: 26.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.63°
 Grid: East To Grid North
 File name: F:\SURVEY\2012SU~1\YATES\IMO\PERFEC~1\001H.SVY
 Date/Time: 08-Oct-12 / 15:59
 Curve Name: Surface - 6600' M.D. (SRG)

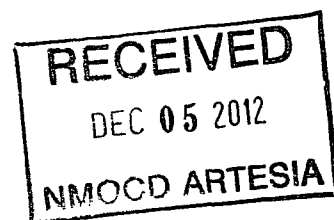


WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 90.13
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 6600 MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Brandon Mikeska 10/8/12
 MS Energy Services Date

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
200.00	.52	290.14	200.00	.31	-.85	-.85	.91	290.14	.26
400.00	.80	55.52	399.99	1.42	-.55	-.56	1.52	338.65	.59
600.00	1.16	359.98	599.96	4.23	.60	.59	4.27	8.03	.48
800.00	2.79	359.06	799.84	11.12	.52	.49	11.13	2.66	.82
1000.00	4.46	2.18	999.43	23.76	.73	.68	23.77	1.77	.84
1200.00	1.92	339.45	1199.11	34.67	-.15	-.23	34.67	359.76	1.39
1400.00	2.68	344.97	1398.95	42.32	-2.54	-2.63	42.40	356.57	.40
1600.00	2.17	355.84	1598.77	50.62	-4.02	-4.14	50.78	355.45	.34
1800.00	.85	96.89	1798.72	54.22	-2.83	-2.95	54.29	357.02	1.24

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	1.29	59.23	1998.69	55.19	.58	.46	55.19	.60	.40
2200.00	3.05	79.96	2198.54	57.27	7.76	7.63	57.79	7.71	.95
2400.00	.95	348.98	2398.44	59.82	12.68	12.54	61.15	11.97	1.60
2600.00	.98	31.59	2598.41	62.91	13.26	13.12	64.29	11.90	.35
2800.00	.99	358.80	2798.38	66.09	14.12	13.97	67.58	12.06	.28
3000.00	.26	27.92	2998.37	68.22	14.29	14.14	69.70	11.83	.39
3200.00	.24	115.56	3198.37	68.44	14.88	14.73	70.04	12.27	.17
3400.00	.11	82.24	3398.37	68.29	15.45	15.30	70.01	12.75	.08
3600.00	.66	262.17	3598.36	68.16	14.50	14.35	69.68	12.01	.38
3800.00	.73	211.91	3798.35	66.92	12.69	12.54	68.11	10.74	.30
4000.00	.65	149.00	3998.34	64.86	12.60	12.45	66.08	10.99	.36
4200.00	.45	161.81	4198.33	63.14	13.43	13.28	64.56	12.01	.12
4400.00	.94	181.15	4398.31	60.76	13.64	13.50	62.27	12.65	.27
4600.00	1.48	154.23	4598.27	56.79	14.73	14.60	58.67	14.54	.39
4800.00	.70	128.52	4798.23	53.71	16.81	16.69	56.27	17.38	.45
5000.00	.79	109.72	4998.22	52.48	19.06	18.94	55.83	19.96	.13
5200.00	.93	115.88	5198.19	51.31	21.82	21.70	55.75	23.04	.08
5400.00	.95	149.25	5398.17	49.17	24.13	24.02	54.77	26.14	.27
5600.00	1.45	157.36	5598.12	45.41	25.95	25.85	52.30	29.75	.26
5800.00	1.32	163.39	5798.07	40.87	27.58	27.49	49.31	34.02	.10
6000.00	1.73	188.16	5998.00	35.67	27.81	27.73	45.23	37.94	.38
6200.00	.82	235.82	6197.95	31.88	26.20	26.13	41.27	39.41	.66
6400.00	.88	270.56	6397.93	31.09	23.48	23.41	38.96	37.06	.26
Last Survey Depth Recorded									
6600.00	1.01	223.43	6597.90	29.83	20.73	20.67	36.32	34.80	.38



Yates Petroleum Corp.

Eddy County (NAD 83)
Perfecto Box State Com
#1H
OH

Design: OH

PathfinderX & Y Report

23 October, 2012

PATHFINDER[®]
A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Site:	Perfecto Box State Com	MD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County (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		Perfecto Box State Com				
Site Position:		Northing:	413,079.817	usft	Latitude:	32.135528
From:	Map	Easting:	592,339.098	usft	Longitude:	-104.168563
Position Uncertainty:	0.0	Slot Radius:	13-3/16	"	Grid Convergence:	0.09 °

Well #1H						
Well Position	+N/-S	0.0 usft	Northing:	413,079.817 usft	Latitude:	32.135528
	+E/-W	0.0 usft	Easting:	592,339.098 usft	Longitude:	-104.168563
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,166.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/27/2012	7.70	60.00	48,421

Design					OH
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	90.13	



Pathfinder

PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Site:	Perfecto Box State Com	MD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db.

Survey Program		Date	10/23/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.0	6,600.0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
6,648.0	12,100.0	MWD #2 (OH)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,192.5	0.0	0.0	0.0	0.00	413,079.82	592,339.10
200.0	0.52	290.14	200.0	-2,992.5	0.3	-0.9	-0.9	0.26	413,080.13	592,338.25
400.0	0.80	55.52	400.0	-2,792.5	1.4	-0.6	-0.6	0.59	413,081.23	592,338.54
600.0	1.16	359.98	600.0	-2,592.5	4.2	0.6	0.6	0.48	413,084.05	592,339.70
800.0	2.79	359.06	799.8	-2,392.7	11.1	0.5	0.5	0.82	413,090.94	592,339.61
1,000.0	4.46	2.18	999.4	-2,193.1	23.8	0.7	0.7	0.84	413,103.58	592,339.83
1,200.0	1.92	339.45	1,199.1	-1,993.4	34.7	-0.1	-0.2	1.39	413,114.49	592,338.95
1,400.0	2.68	344.97	1,399.0	-1,793.5	42.3	-2.5	-2.6	0.40	413,122.14	592,336.56
1,600.0	2.17	355.84	1,598.8	-1,593.7	50.6	-4.0	-4.1	0.34	413,130.43	592,335.07
1,800.0	0.85	96.89	1,798.7	-1,393.8	54.2	-2.8	-3.0	1.24	413,134.03	592,336.27
2,000.0	1.29	59.23	1,998.7	-1,193.8	55.2	0.6	0.5	0.40	413,135.01	592,339.68
2,200.0	3.05	79.96	2,198.5	-994.0	57.3	7.8	7.6	0.95	413,137.09	592,346.85
2,400.0	0.95	348.98	2,398.4	-794.1	59.8	12.7	12.5	1.60	413,139.64	592,351.78
2,600.0	0.98	31.59	2,598.4	-594.1	62.9	13.3	13.1	0.35	413,142.73	592,352.36
2,800.0	0.99	358.80	2,798.4	-394.1	66.1	14.1	14.0	0.28	413,145.91	592,353.22
3,000.0	0.26	27.92	2,998.4	-194.1	68.2	14.3	14.1	0.39	413,148.04	592,353.39
3,200.0	0.24	115.56	3,198.4	5.9	68.4	14.9	14.7	0.17	413,148.26	592,353.98
3,400.0	0.11	82.24	3,398.4	205.9	68.3	15.5	15.3	0.08	413,148.10	592,354.55
3,600.0	0.66	262.17	3,598.4	405.9	68.2	14.5	14.3	0.38	413,147.97	592,353.60
3,800.0	0.73	211.91	3,798.3	605.8	66.9	12.7	12.5	0.30	413,146.73	592,351.79
4,000.0	0.65	149.00	3,998.3	805.8	64.9	12.6	12.4	0.36	413,144.68	592,351.70



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County (NAD 83)
Site: Perfecto Box State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
KB = 26.5 @ 3192.5usft (Patriot 5)
KB = 26.5 @ 3192.5usft (Patriot 5)
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. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
4,200.0	0.45	161.81	4,198.3	1,005.8	63.1	13.4	13.3	0.12	413,142.96	592,352.53	
4,400.0	0.94	181.15	4,398.3	1,205.8	60.8	13.6	13.5	0.27	413,140.58	592,352.74	
4,600.0	1.48	154.23	4,598.3	1,405.8	56.8	14.7	14.6	0.39	413,136.61	592,353.83	
4,800.0	0.70	128.52	4,798.2	1,605.7	53.7	16.8	16.7	0.45	413,133.52	592,355.91	
5,000.0	0.79	109.72	4,998.2	1,805.7	52.5	19.1	18.9	0.13	413,132.30	592,358.16	
5,200.0	0.93	115.88	5,198.2	2,005.7	51.3	21.8	21.7	0.08	413,131.12	592,360.92	
5,400.0	0.95	149.25	5,398.2	2,205.7	49.2	24.1	24.0	0.27	413,128.99	592,363.23	
5,600.0	1.45	157.36	5,598.1	2,405.6	45.4	26.0	25.8	0.26	413,125.23	592,365.05	
5,800.0	1.32	163.39	5,798.1	2,605.6	40.9	27.6	27.5	0.10	413,120.69	592,366.68	
6,000.0	1.73	188.16	5,998.0	2,805.5	35.7	27.8	27.7	0.38	413,115.49	592,366.91	
6,200.0	0.82	235.82	6,197.9	3,005.4	31.9	26.2	26.1	0.66	413,111.70	592,365.30	
6,400.0	0.88	270.56	6,397.9	3,205.4	31.1	23.5	23.4	0.26	413,110.91	592,362.58	
6,600.0	1.01	223.43	6,597.9	3,405.4	29.8	20.7	20.7	0.38	413,109.64	592,359.83	
6,648.0	1.14	235.86	6,645.9	3,453.4	29.3	20.0	20.0	0.55	413,109.07	592,359.15	
6,741.0	1.14	236.04	6,738.9	3,546.4	28.2	18.5	18.4	0.00	413,108.03	592,357.61	
6,836.0	1.32	228.48	6,833.9	3,641.4	27.0	16.9	16.8	0.25	413,106.78	592,356.01	
6,930.0	1.41	224.88	6,927.8	3,735.3	25.4	15.3	15.2	0.13	413,105.24	592,354.38	
7,025.0	1.49	226.81	7,022.8	3,830.3	23.8	13.6	13.5	0.10	413,103.57	592,352.66	
7,119.0	1.67	231.91	7,116.8	3,924.3	22.1	11.6	11.5	0.24	413,101.89	592,350.69	
7,213.0	1.85	145.69	7,210.7	4,018.2	20.0	11.4	11.3	2.56	413,099.79	592,350.47	
7,244.0	4.57	106.40	7,241.7	4,049.2	19.2	12.8	12.8	10.80	413,099.03	592,351.93	
KOP: 7244.0 MD: 7241.7 TVD: 19.2 N: 12.8 E											
7,275.0	7.74	96.64	7,272.5	4,080.0	18.6	16.1	16.1	10.73	413,098.44	592,355.19	
7,307.0	10.82	95.59	7,304.1	4,111.6	18.1	21.2	21.2	9.64	413,097.89	592,360.32	
7,338.0	14.16	96.03	7,334.3	4,141.8	17.4	27.9	27.9	10.78	413,097.21	592,366.99	
7,370.0	17.76	96.29	7,365.1	4,172.6	16.4	36.6	36.6	11.25	413,096.27	592,375.74	
7,401.0	21.37	87.59	7,394.3	4,201.8	16.2	47.0	47.0	14.94	413,095.99	592,386.09	



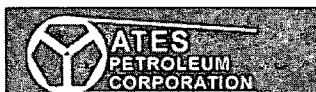
Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County (NAD 83)
Site: Perfecto Box State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 26.5 @ 3192.5usft (Patriot 5)
MD Reference: KB = 26.5 @ 3192.5usft (Patriot 5)
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)	Northing (usft)	Easting (usft)	
7,432.0	24.89	96.56	7,422.8	4,230.3	15.7	59.1	59.1	16.04	413,095.48	592,398.22	
7,463.0	28.14	96.99	7,450.6	4,258.1	14.0	72.9	72.8	10.50	413,093.84	592,411.96	
7,494.0	31.30	97.08	7,477.5	4,285.0	12.1	88.1	88.1	10.19	413,091.96	592,427.21	
7,526.0	34.29	96.38	7,504.4	4,311.9	10.1	105.3	105.3	9.42	413,089.93	592,444.42	
7,557.0	37.99	95.50	7,529.4	4,336.9	8.2	123.5	123.5	12.05	413,088.05	592,462.60	
7,589.0	41.42	95.06	7,554.0	4,361.5	6.4	143.9	143.8	10.75	413,086.17	592,482.95	
7,620.0	44.93	94.97	7,576.6	4,384.1	4.5	165.0	165.0	11.32	413,084.32	592,504.08	
7,651.0	48.36	94.89	7,597.9	4,405.4	2.6	187.4	187.4	11.07	413,082.38	592,526.53	
7,683.0	52.06	95.32	7,618.4	4,425.9	0.4	211.9	211.9	11.61	413,080.19	592,551.02	
7,714.0	55.57	96.82	7,636.7	4,444.2	-2.3	236.8	236.8	11.98	413,077.54	592,575.90	
7,746.0	58.92	97.61	7,654.0	4,461.5	-5.7	263.5	263.5	10.67	413,074.15	592,602.59	
7,778.0	61.91	97.43	7,669.8	4,477.3	-9.3	291.1	291.1	9.36	413,070.51	592,630.18	
7,809.0	65.86	97.17	7,683.4	4,490.9	-12.8	318.7	318.7	12.76	413,066.98	592,657.78	
7,841.0	70.35	97.96	7,695.4	4,502.9	-16.8	348.1	348.1	14.22	413,063.07	592,687.20	
7,872.0	75.27	98.31	7,704.5	4,512.0	-20.9	377.4	377.5	15.91	413,058.88	592,716.51	
7,904.0	80.55	98.14	7,711.2	4,518.7	-25.4	408.4	408.4	16.51	413,054.40	592,747.47	
7,966.0	87.41	91.72	7,717.7	4,525.2	-30.7	469.7	469.8	15.11	413,049.13	592,808.83	
8,061.0	89.16	90.40	7,720.6	4,528.1	-32.4	564.7	564.7	2.31	413,047.37	592,903.77	
LP: 8061.0 MD: 7720.6 TVD: -32.4 N: 564.7 E											
8,156.0	89.87	90.84	7,721.4	4,528.9	-33.5	659.7	659.7	0.88	413,046.35	592,998.76	
8,251.0	91.28	89.17	7,720.4	4,527.9	-33.5	754.6	754.7	2.30	413,046.34	593,093.75	
8,346.0	91.63	86.36	7,718.0	4,525.5	-29.8	849.5	849.6	2.98	413,050.04	593,188.64	
8,440.0	91.45	87.50	7,715.5	4,523.0	-24.7	943.4	943.4	1.23	413,055.07	593,282.46	
8,534.0	89.96	88.73	7,714.3	4,521.8	-21.7	1,037.3	1,037.4	2.06	413,058.16	593,376.40	
8,628.0	89.60	88.91	7,714.7	4,522.2	-19.7	1,131.3	1,131.3	0.43	413,060.10	593,470.38	
8,723.0	89.60	89.26	7,715.4	4,522.9	-18.2	1,226.3	1,226.3	0.37	413,061.62	593,565.37	
8,817.0	86.61	89.52	7,718.5	4,526.0	-17.2	1,320.2	1,320.2	3.19	413,062.62	593,659.30	



Pathfinder

PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County (NAD 83)
Site: Perfecto Box State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 26.5 @ 3192.5usft (Patriot 5)
MD Reference: KB = 26.5 @ 3192.5usft (Patriot 5)
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)	Northing (usft)	Easting (usft)	
8,912.0	85.91	89.35	7,724.7	4,532.2	-16.3	1,415.0	1,415.0	0.76	413,063.55	593,754.09	
9,006.0	86.35	89.26	7,731.0	4,538.5	-15.1	1,508.8	1,508.8	0.48	413,064.69	593,847.87	
9,101.0	87.93	88.56	7,735.7	4,543.2	-13.3	1,603.6	1,603.7	1.82	413,066.50	593,942.73	
9,195.0	88.11	89.26	7,739.0	4,546.5	-11.5	1,697.6	1,697.6	0.77	413,068.28	594,036.66	
9,290.0	88.37	89.52	7,741.9	4,549.4	-10.5	1,792.5	1,792.5	0.39	413,069.29	594,131.61	
9,384.0	88.55	89.88	7,744.4	4,551.9	-10.0	1,886.5	1,886.5	0.43	413,069.79	594,225.57	
9,479.0	87.41	90.84	7,747.8	4,555.3	-10.6	1,981.4	1,981.4	1.57	413,069.19	594,320.51	
9,573.0	87.76	91.55	7,751.7	4,559.2	-12.6	2,075.3	2,075.3	0.84	413,067.23	594,414.40	
9,668.0	88.11	91.99	7,755.2	4,562.7	-15.5	2,170.2	2,170.2	0.59	413,064.30	594,509.30	
9,763.0	88.11	91.72	7,758.3	4,565.8	-18.6	2,265.1	2,265.1	0.28	413,061.22	594,604.19	
9,857.0	88.46	92.07	7,761.1	4,568.6	-21.7	2,359.0	2,359.0	0.53	413,058.12	594,698.10	
9,952.0	87.93	91.28	7,764.1	4,571.6	-24.5	2,453.9	2,454.0	1.00	413,055.34	594,793.01	
10,046.0	89.08	90.40	7,766.6	4,574.1	-25.9	2,547.9	2,547.9	1.54	413,053.96	594,886.97	
10,140.0	89.87	90.93	7,767.4	4,574.9	-26.9	2,641.9	2,641.9	1.01	413,052.87	594,980.96	
10,235.0	88.55	92.34	7,768.7	4,576.2	-29.7	2,736.8	2,736.9	2.03	413,050.16	595,075.90	
10,329.0	87.41	92.16	7,772.0	4,579.5	-33.3	2,830.7	2,830.7	1.23	413,046.48	595,169.77	
10,424.0	87.93	92.51	7,775.9	4,583.4	-37.2	2,925.5	2,925.6	0.66	413,042.61	595,264.61	
10,519.0	87.67	93.04	7,779.5	4,587.0	-41.8	3,020.3	3,020.4	0.62	413,038.01	595,359.43	
10,614.0	88.11	93.39	7,783.0	4,590.5	-47.1	3,115.1	3,115.2	0.59	413,032.69	595,454.22	
10,708.0	86.61	91.81	7,787.4	4,594.9	-51.4	3,208.9	3,209.0	2.32	413,028.43	595,548.02	
10,803.0	86.79	91.81	7,792.8	4,600.3	-54.4	3,303.7	3,303.8	0.19	413,025.43	595,642.81	
10,898.0	88.90	92.51	7,796.4	4,603.9	-58.0	3,398.6	3,398.7	2.34	413,021.85	595,737.67	
10,993.0	87.49	89.88	7,799.4	4,606.9	-59.9	3,493.5	3,493.6	3.14	413,019.87	595,832.59	
11,088.0	88.55	90.23	7,802.7	4,610.2	-60.0	3,588.4	3,588.6	1.17	413,019.78	595,927.53	
11,182.0	87.41	88.73	7,806.0	4,613.5	-59.2	3,682.4	3,682.5	2.00	413,020.63	596,021.47	
11,276.0	88.02	88.73	7,809.8	4,617.3	-57.1	3,776.3	3,776.4	0.65	413,022.72	596,115.37	
11,371.0	87.85	89.17	7,813.2	4,620.7	-55.4	3,871.2	3,871.3	0.50	413,024.46	596,210.29	



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Site:	Perfecto Box State Com	MD Reference:	KB = 26.5 @ 3192.5usft (Patriot 5)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
11,465.0	87.93	89.79	7,816.6	4,624.1	-54.5	3,965.1	3,965.2	0.66	413,025.31	596,304.22	
11,560.0	86.44	88.56	7,821.3	4,628.8	-53.1	4,060.0	4,060.1	2.03	413,026.67	596,399.09	
11,655.0	86.44	89.08	7,827.2	4,634.7	-51.2	4,154.8	4,154.9	0.55	413,028.63	596,493.89	
11,749.0	86.70	89.79	7,832.8	4,640.3	-50.3	4,248.6	4,248.7	0.80	413,029.55	596,587.72	
11,844.0	86.61	90.32	7,838.4	4,645.9	-50.4	4,343.5	4,343.6	0.56	413,029.46	596,682.55	
11,939.0	86.70	90.84	7,843.9	4,651.4	-51.3	4,438.3	4,438.4	0.55	413,028.50	596,777.39	
12,023.0	86.97	91.46	7,848.5	4,656.0	-53.0	4,522.1	4,522.3	0.80	413,026.82	596,861.24	
12,100.0	86.97	91.46	7,852.6	4,660.1	-55.0	4,599.0	4,599.1	0.00	413,024.86	596,938.11	
PROJECTED BHL - 12100.0 'MD, 7852.6 'TVD, -55.0 'N, 4599.0 'E - FNL:704', FEL:370', FSL:626'											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,244.0	7,241.7	19.2	12.8	KOP - 7244.0 'MD, 7241.7 'TVD, 19.2 'N, 12.8 'E
8,061.0	7,720.6	-32.4	564.7	LP - 8061.0 'MD, 7720.6 'TVD, -32.4 'N, 564.7 'E
12,100.0	7,852.6	-55.0	4,599.0	PROJECTED BHL - 12100.0 'MD, 7852.6 'TVD, -55.0 'N, 4599.0 'E
12,100.0	7,852.6	-55.0	4,599.0	FNL:704', FEL:370', FSL:626'

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County (NAD 83)
Site: Perfecto Box State Com
Well: #1H
Wellbore: OH
Plan: Post Gyro Plan #2 (#1H/OH)

PATHFINDER
A Schlumberger Company

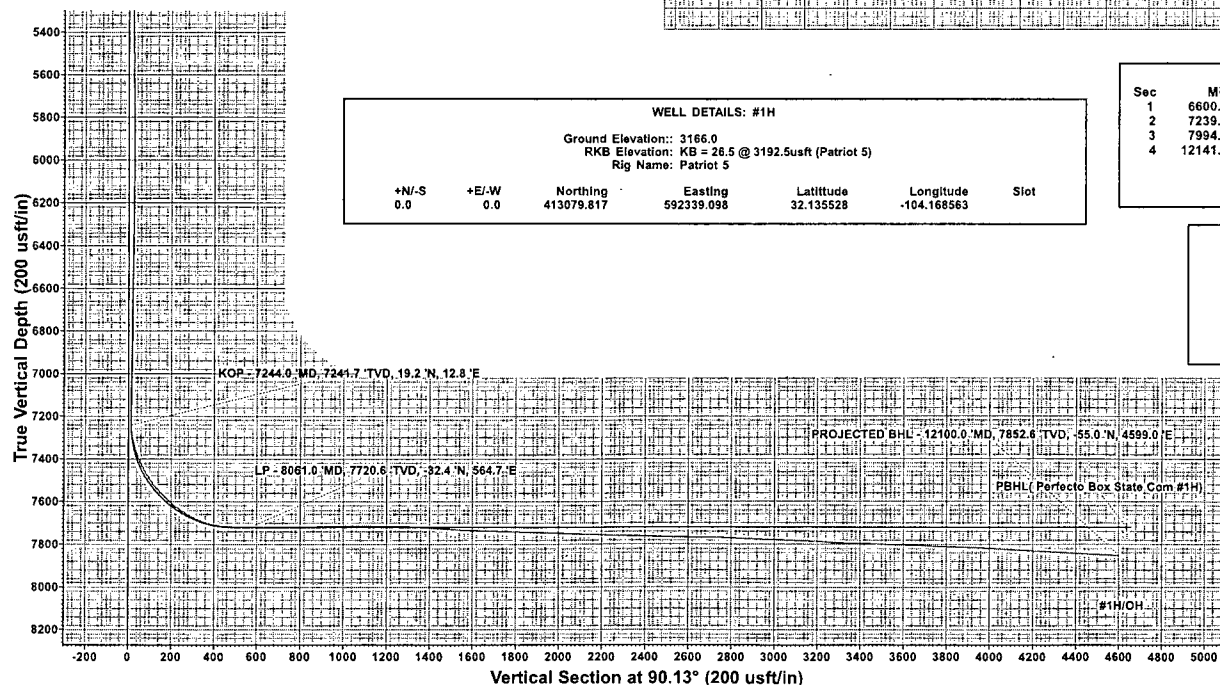
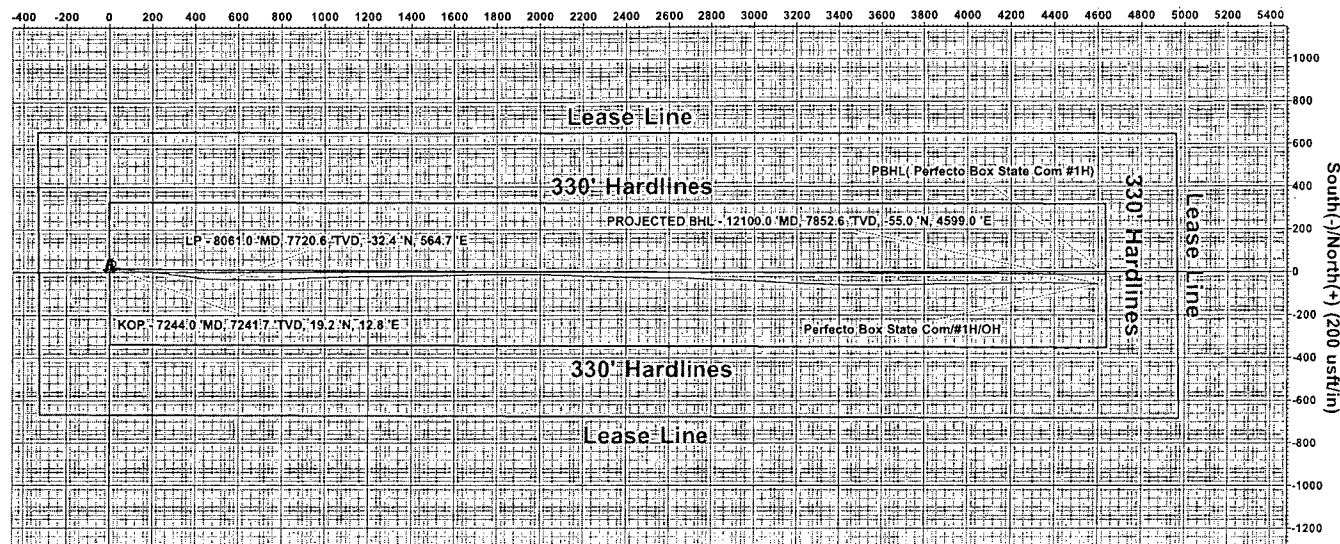
PROJECT DETAILS: Eddy County (NAD 83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



Azimuths to Grid North
True North: -0.09°
Magnetic North: 7.61°

Magnetic Field
Strength: 48421.3snT
Dip Angle: 60.00°
Date: 8/27/2012
Model: IGRF200510

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



WELL DETAILS: #1H

Ground Elevation: 3166.0
RKB Elevation: KB = 26.5 @ 3192.5usft (Patriot 5)
Rig Name: Patriot 5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	413079.817	592339.098	32.135528	-104.168563	

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect Target
1	6600.0	1.01	223.43	6597.9	29.8	20.7	0.00	0.00	20.7
2	7239.0	1.01	223.43	7236.8	21.6	13.0	0.00	0.00	12.9
3	7994.7	90.00	90.32	7720.0	12.7	490.4	12.00	-133.10	490.3
4	12141.4	90.00	90.32	7720.0	-10.8	4636.9	0.00	0.00	4636.9 PBHL(Perfecto Box State Com #1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Perfecto Box State Com #1H)	7720.0	-10.8	4636.9	413069.029	596976.032	Point

EOW

Plan: Post Gyro Plan #2 (#1H/OH)

Created By: Sam Biffle Date: 10/22, October 23 2012

Checked: _____ Date: _____

Notes: Pathfinder Curve
Pathfinder Curve (P5)
Pathfinder Curve (P5)
Pathfinder Curve (P5)
Pathfinder Curve (P5)
Pathfinder Curve (P5)